

Safety Data Sheet

Master Catalog

Prepared for: Sparkle Express Car Wash

EMERGENCY CONTACT:

Poison Control: 1-800-222-1222

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1707 - Tire Jelly™

1.1 GHS Product identifier: 1707 - Tire Jelly™

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Chemical cleaning products

Tire dressing for use in commercial car washes.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: Cleaning Systems, Inc.

1997 American Blvd

54115 De Pere - United States

Phone.: 9203372175 - Fax: 9203379410

chemcompliance@cleaningsystemsinc.com

http://cleaningsystemsinc.com

1.4 Emergency phone number: 1-800-424-9300 or 1-703-527-3887

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Eye Irrit. 2: Eye irritation, Category 2, H319

2.2 Label elements:

29 CFR 1910.1200:

Warning



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation

Precautionary statements:

P264: Wash thoroughly after use

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313: If eye irritation persists: Get medical advice/attention

2.3 Other hazards which do not result in classification:

Non-applicable

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification Chemical name/Classification Concentration CAS: 84133-50-6 **Alcohols, C12-14-secondary, ethoxylated**

Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger **<5 %**

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Identification Chemical name/Classification Concentration CAS: Proprietary **Ethoxylated Alcohol**

Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger **<5 %**

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

5.1 Suitable (and unsuitable) extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent. **5.2 Specific hazards arising from the chemical:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6.1 Personal precautions, protective equipment and emergency procedures:

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Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water. **6.3 Methods and materials for containment and cleaning up:**

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection

6.3) 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: -4 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection

10.5 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Formaldehyde 8-hour TWA PEL 0.75 ppm

CAS: 50-00-0 Ceiling Values - TWA

Identification Environmental limits

PEL 2 ppm

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

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As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands

Pictogram PPE Remarks

Mandatory hand

protection

Protective gloves against minor risks

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical

protection gloves. Use gloves in accordance with manufacturer's use limitations

and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

D.- Ocular and facial protection

Pictogram PPE Remarks

Mandatory face
protection

Panoramic glasses against splash/projections.

Clean daily and disinfect periodically according to the manufacturer's instructions.

Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram PPE Remarks

Work clothing Replace before any evidence of deterioration.

Anti-slip work shoes Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure Standards Emergency measure Standards

ANSI Z358-1

DIN 12 899

ISO 3864-1:2002

ISO 3864-1:2002

Emergency shower

Eyewash stations

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Liquid

*Not relevant due to the nature of the product, not providing information property of its hazards.

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Appearance: Viscous

Color: Green

Odor: Solvent

Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 212 °F

Vapour pressure at 68 °F: 2355 Pa

Vapour pressure at 122 °F: 92.94 (12.39 kPa)

Evaporation rate at 68 °F: Non-applicable *

Product description:

Density at 68 °F: 1014.8 kg/m³

Relative density at 68 °F: 1.015

Dynamic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 104 °F: >20.5 cSt

Concentration: Non-applicable *

pH: 8

Vapour density at 68 °F: Non-applicable *

Partition coefficient n-octanol/water 68 °F: Non-applicable *

Solubility in water at 68 °F: Non-applicable *

Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Flammability:

Flash Point: Non Flammable (>199.4 °F)

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 615 °F

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

Explosive:

Lower explosive limit: Non-applicable *

Upper explosive limit: Non-applicable *

9.2 Other information:

Surface tension at 68 °F: Non-applicable *

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7. **10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:



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10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. **10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction Contact with air Increase in temperature Sunlight Humidity Not applicable Not applicable Not applicable Not applicable
Not applicable

10.5 Incompatible materials:

Acids Water Oxidising materials Combustible materials Others Avoid strong acids Not applicable Not applicable Not applicable Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
IARC: Formaldehyde (1); 2,2',2''-nitrilotriethanol (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

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Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Ethoxylated Alcohol LD50 oral 500 mg/kg (ATEi)
CAS: Proprietary LD50 dermal Non-applicable

Identification Acute toxicity Genus

LC50 inhalation Non-applicable

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Not available

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

Transport of dangerous goods by land:

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With regard to 49 CFR on the Transport of Dangerous Goods:

- 14.1 **UN number:** Non-applicable
- 14.2 **UN proper shipping name:** Non-applicable
- 14.3 **Transport hazard class(es):** Non-applicable
Labels: Non-applicable
- 14.4 **Packing group, if applicable:** Non-applicable
- 14.5 **Environmental hazard:** No
- 14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
Physico-Chemical properties: see section 9
- 14.7 Non-applicable
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

- 14.1 **UN number:** Non-applicable
- 14.2 **UN proper shipping name:** Non-applicable
- 14.3 **Transport hazard class(es):** Non-applicable
Labels: Non-applicable
- 14.4 **Packing group, if applicable:** Non-applicable
- 14.5 **Environmental hazard:** No
- 14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
Physico-Chemical properties: see section 9
- 14.7 Non-applicable
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:

- 14.1 **UN number:** Non-applicable
- 14.2 **UN proper shipping name:** Non-applicable
- 14.3 **Transport hazard class(es):** Non-applicable
Labels: Non-applicable
- 14.4 **Packing group, if applicable:** Non-applicable
- 14.5 **Environmental hazard:** No
- 14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
Physico-Chemical properties: see section 9
- 14.7 Non-applicable
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

15.1 Safety, health and environmental regulations specific for the product in question:

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SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): Non-applicable
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable
The Toxic Substances Control Act (TSCA) : Alcohols,C12-14-secondary, ethoxylated ; Ethoxylated Alcohol
Massachusetts RTK - Substance List: Non-applicable
New Jersey Worker and Community Right-to-Know Act: Non-applicable
New York RTK - Substance list: Non-applicable
Pennsylvania Worker and Community Right-to-Know Law: Non-applicable
CANADA-Domestic Substances List (DSL): Alcohols,C12-14-secondary, ethoxylated ; Ethoxylated Alcohol
CANADA-Non-Domestic Substances List (NDSL): Non-applicable
NTP (National Toxicology Program): Non-applicable
Minnesota - Hazardous substances ERTK: Non-applicable
Rhode Island - Hazardous substances RTK: Non-applicable
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302):
Non-applicable **Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Toxic Substances Control Act (TSCA)

Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H319: Causes serious eye irritation

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 4: H302 - Harmful if swallowed

Eye Dam. 1: H318 - Causes serious eye damage

Skin Irrit. 2: H315 - Causes skin irritation

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

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Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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B09B1T3ZF7 Amazon Basics Dish Soap, Fresh Scent 30 fl oz 4 pack

Version	Revision Date:	SDS Number:	Date of last issue: 08/04/2022
1.1	08/04/2022	10588354-00002	Date of first issue: 01/21/2022

SECTION 1. IDENTIFICATION

Product name : B09B1T3ZF7 Amazon Basics Dish Soap, Fresh Scent 30 fl oz 4 pack

Product code : ASIN: B09B1T3ZF7

Manufacturer or supplier's details

Company name of supplier : Amazon.com Services LLC

Address : 410 Terry Ave. N.
Seattle WA 98109

Telephone : (888) 282-7963

Emergency telephone : Poison Control Center: (800) 222-1222

E-mail address : ProductSafety@amazon.com

Recommended use of the chemical and restrictions on use

Recommended use : Detergent
Consumer cleaning product

Restrictions on use : Not applicable

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitization : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

B09B1T3ZF7 Amazon Basics Dish Soap, Fresh Scent 30 fl oz 4 pack

Version	Revision Date:	SDS Number:	Date of last issue: 08/04/2022
1.1	08/04/2022	10588354-00002	Date of first issue: 01/21/2022

Precautionary Statements : **Prevention:**
P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves, eye protection and face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.
P333 + P313 If skin irritation or rash occurs: Get medical attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:
P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sodium dodecylbenzene sulfonate	25155-30-0	$\geq 5 - < 10$
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	$\geq 1 - < 5$
2-Methyl-2H-isothiazol-3-one	2682-20-4	$\geq 0.1 - < 1$
1,2-Benzisothiazol-3(2H)-one	2634-33-5	$\geq 0.1 - < 1$

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing

B09B1T3ZF7 Amazon Basics Dish Soap, Fresh Scent 30 fl oz 4 pack

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- and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
Sulfur oxides
Metal oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g., by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not get on skin or clothing.
Avoid breathing mist or vapors.
Do not swallow.
Do not get in eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep container tightly closed.
Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled containers.
Keep tightly closed.
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:
Strong oxidizing agents
Gases

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures : Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : not required

Eye protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
When using do not eat, drink or smoke.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Color	: blue
Odor	: odorized
Odor Threshold	: No data available
pH	: 8 (undiluted)
Melting point/freezing point	: < 32 °F / < 0 °C
Initial boiling point and boiling range	: > 212 °F / > 100 °C
Flash point	: 199.9 - 212 °F / 93.3 - 100 °C Method: ASTM D 56, closed cup
Evaporation rate	: < 10
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: < 22.664 hPa
Relative vapor density	: > 1
Relative density	: No data available
Density	: 1.028 g/cm ³
Solubility(ies) Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: Not applicable
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity Viscosity, kinematic	: No data available

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Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Particle size	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	: None known.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: 110 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:**Sodium dodecylbenzene sulfonate:**

Acute oral toxicity	: LD50 (Rat): 500 - 2,000 mg/kg Method: OECD Test Guideline 401
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Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Acute oral toxicity : LD50 (Rat): 4,100 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

2-Methyl-2H-isothiazol-3-one:

Acute oral toxicity : LD50 (Rat): 120 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.11 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rat): 242 mg/kg
Method: OECD Test Guideline 402

1,2-Benzisothiazol-3(2H)-one:

Acute oral toxicity : LD50 (Rat): 454 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Causes skin irritation.

Components:**Sodium dodecylbenzene sulfonate:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation
Remarks : Based on data from similar materials

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

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2-Methyl-2H-isothiazol-3-one:

Result : Corrosive after 3 minutes to 1 hour of exposure

1,2-Benzisothiazol-3(2H)-one:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:**Sodium dodecylbenzene sulfonate:**

Species : Rabbit
Result : Irreversible effects on the eye
Method : OECD Test Guideline 405
Remarks : Based on data from similar materials

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Species : Rabbit
Result : Irreversible effects on the eye

2-Methyl-2H-isothiazol-3-one:

Result : Irreversible effects on the eye

1,2-Benzisothiazol-3(2H)-one:

Species : Rabbit
Result : Irreversible effects on the eye

Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:**Sodium dodecylbenzene sulfonate:**

Test Type : Maximization Test
Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : negative
Remarks : Based on data from similar materials

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Test Type : Maximization Test
Routes of exposure : Skin contact

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Species : Guinea pig
Method : OECD Test Guideline 406
Result : negative

2-Methyl-2H-isothiazol-3-one:

Routes of exposure : Skin contact
Result : positive

Assessment : Probability or evidence of high skin sensitization rate in humans

1,2-Benzisothiazol-3(2H)-one:

Test Type : Maximization Test
Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : positive

Assessment : Probability or evidence of high skin sensitization rate in humans

Germ cell mutagenicity

Not classified based on available information.

Components:**Sodium dodecylbenzene sulfonate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Mouse

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Application Route: Ingestion
Method: OECD Test Guideline 475
Result: negative

2-Methyl-2H-isothiazol-3-one:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 486
Result: negative

1,2-Benzisothiazol-3(2H)-one:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: positive

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 486
Result: negative

Carcinogenicity

Not classified based on available information.

Components:**Sodium dodecylbenzene sulfonate:**

Species : Rat
Application Route : Ingestion
Exposure time : 2 Years
Result : negative
Remarks : Based on data from similar materials

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:**Sodium dodecylbenzene sulfonate:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

2-Methyl-2H-isothiazol-3-one:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

1,2-Benzisothiazol-3(2H)-one:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat

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Application Route: Ingestion
Method: OPPTS 870.3800
Result: negative

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Components:**1,2-Benzisothiazol-3(2H)-one:**

Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity**Components:****Sodium dodecylbenzene sulfonate:**

Species : Rat
NOAEL : 100 mg/kg
LOAEL : 200 mg/kg
Application Route : Ingestion
Exposure time : 54 Days
Method : OECD Test Guideline 422
Remarks : Based on data from similar materials

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Species : Rat
NOAEL : ≥ 225 mg/kg
Application Route : Ingestion
Exposure time : 90 Days
Method : OECD Test Guideline 408

1,2-Benzisothiazol-3(2H)-one:

Species : Dog
NOAEL : 5 mg/kg
LOAEL : 20 mg/kg
Application Route : Ingestion
Exposure time : 90 Days
Method : Directive 67/548/EEC, Annex V, B.27.

Aspiration toxicity

Not classified based on available information.

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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Sodium dodecylbenzene sulfonate:**

- | | | |
|--|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 3.2 - 5.6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 6.3 mg/l
Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Pimephales promelas (fathead minnow)): > 0.1 - 1 mg/l
Exposure time: 28 d
Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 1.65 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211 |
| Toxicity to microorganisms | : | EC50: > 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials |

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

- | | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): 7.1 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 7.4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EC50 (Desmodesmus subspicatus (green algae)): 27.7 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201 |

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NOEC (Desmodesmus subspicatus (green algae)): 0.95 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : EC10 (Oncorhynchus mykiss (rainbow trout)): 0.69 mg/l
Exposure time: 45 d
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.18 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: Based on data from similar materials

2-Methyl-2H-isothiazol-3-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.77 - 6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.93 - 1.9 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Skeletonema costatum (marine diatom)): 0.1 mg/l
Exposure time: 72 h

ErC50 (Skeletonema costatum (marine diatom)): 0.0695 mg/l
Exposure time: 24 h

EC10 (Pseudokirchneriella subcapitata (green algae)): 0.024 mg/l
Exposure time: 24 h

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 2.1 mg/l
Exposure time: 33 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.04 mg/l
Exposure time: 21 d

1,2-Benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 110 µg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 40.4

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µg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC: 10.3 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Persistence and degradability**Components:****Sodium dodecylbenzene sulfonate:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.C.

2-Methyl-2H-isothiazol-3-one:

Biodegradability : Result: Not readily biodegradable.

1,2-Benzisothiazol-3(2H)-one:

Biodegradability : Result: rapidly degradable

Bioaccumulative potential**Components:****Sodium dodecylbenzene sulfonate:**

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 87
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 1.96

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Partition coefficient: n-octanol/water : log Pow: 0.3

2-Methyl-2H-isothiazol-3-one:

Partition coefficient: n- : log Pow: -0.34

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octanol/water

1,2-Benzisothiazol-3(2H)-one:

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)
Bioconcentration factor (BCF): 6.62

Partition coefficient: n- : log Pow: 0.7
octanol/water

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**

UN/ID/NA number : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Sodium dodecylbenzene sulfonate)

Class : 9

Packing group : III

Labels : CLASS 9

ERG Code : 171

Marine pollutant : no

Remarks : THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE

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SIZES WHERE THE HAZARDOUS SUBSTANCE MEETS THE REPORTABLE QUANTITY.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium dodecylbenzene sulfonate	25155-30-0	1000	11086

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitization
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Volatile organic compounds (VOC) content 40 CFR Part 59 National VOC Emission Standard For Consumer Products, Subpart C
VOC content: < 10 g/l

US State Regulations**Pennsylvania Right To Know**

water	7732-18-5
Sodium dodecylbenzene sulfonate	25155-30-0
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3

California List of Hazardous Substances

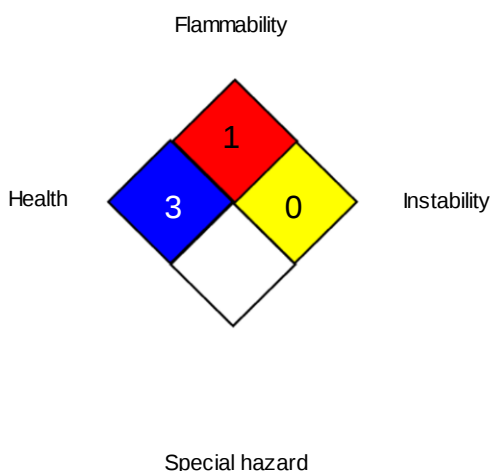
Sodium dodecylbenzene sulfonate	25155-30-0
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The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

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SECTION 16. OTHER INFORMATION**Further information****NFPA 704:****HMIS® IV:**

HEALTH	/	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable

B09B1T3ZF7 Amazon Basics Dish Soap, Fresh Scent 30 fl oz 4 pack

Version	Revision Date:	SDS Number:	Date of last issue: 08/04/2022
1.1	08/04/2022	10588354-00002	Date of first issue: 01/21/2022

Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 08/04/2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8

SAFETY DATA SHEET

ANTIBACTERIAL HAND SOAP

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name : ANTIBACTERIAL HAND SOAP

Product Codes : 5009, 5012, 5019, 5065, 5067, 65036, 30441
Recommended use : Antibacterial hand cleaner
Product dilution information : Product is sold ready to use.

Company : Kutol Products Company
100 Partnership Way
Sharonville, OH 45242
1-800-543-4641

Chemtrec Phone : 1-800-424-9300

Issuing date : 06/23/2017

SECTION 2 – HAZARD(S) IDENTIFICATION

GHS Classification : Category 2B
Eye irritation

GHS Label Element
Hazards pictograms



Signal Word : Warning

Hazard Statements : **Response:**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Other Hazards : None known.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

<u>Chemical Name</u>	<u>Concentration (%)</u>	<u>CAS No.</u>
BENZALKONIUM CHLORIDE	< 5	8001-54-5

SECTION 4 – FIRST AID MEASURES

In case of eye contact : Flush eyes under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, seek medical/advice attention.

In case of skin contact : If irritation persists, wash with water.

SAFETY DATA SHEET

ANTIBACTERIAL HAND SOAP

If ingested	:	Contact a physician or Poison Control Center immediately. Do not induce vomiting never give anything by mouth to an unconscious person.
If inhaled	:	Get medical attention if symptoms occur.
Protection of first-aiders	:	No special precautions are necessary.
Notes to physicians	:	Treat symptomatically.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.
Specific hazards during firefighting	:	No flammable or combustible.
Hazardous combustions products	:	Carbon oxides
Special protective equipment for fire-fighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions	:	No special measures required.
Environmental precautions	:	Avoid contact of large amounts of spilled material runoff with soil and surface waterways.
Methods of cleaning up	:	Absorb with inert material. Use a water rinse for final clean-up.

SECTION 7 – HANDLING AND STORAGE

Handling	:	Wash hands after handling.
Storage	:	Keep out of reach of children. Keep container tightly closed. Store between 32 to 122 degrees F.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	:	Good general ventilation should be sufficient to control workers exposure to airborne contamination.
<u>Personal protection</u>	:	
Eyes	:	Eye protection should be used when splashing may occur.
Hands	:	No protective equipment is needed under normal use.
Skin	:	No protective equipment is needed under normal use.
Respiratory	:	No protective equipment is needed under normal use.

SAFETY DATA SHEET

ANTIBACTERIAL HAND SOAP

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous amber liquid	Upper/lower flammability limits: N/A
Odor: Spicy floral fragrance	Vapor pressure: N/A
Odor Threshold: No data available	Vapor density: N/A
ph: 6.0 typical	Relative density: No data available.
Melting point/freezing point: N/A	Solubility (ies): No data available.
Initial boiling and boiling range: N/A	Partition coefficient: n-octanol/water: No data available.
Flash point: N/A	Auto ignition temperature: N/A
Evaporation rate: <1	Decomposition temperature: No data available.
Flammability (solid, gas): No data available	Viscosity: 3,250 CPS @ 77 F or 25 C

SECTION 10 – STABILITY AND REACTIVITY

Stability	: The product is stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction is known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: Carbon oxides

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on likely routines of exposure : Inhalation, eye contact, skin contact.

Potential Health Effects

Eyes	: Cause of irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic exposure	: Health injuries are not known or expected under normal use.

Experience with Human Exposure

Eye contact	: Redness, irritation.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Toxicity

Acute oral toxicity	: Acute toxicity estimate: >5,000 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: Acute toxicity estimate: >5,000 mg/kg
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: Mild eye irritation.
Respiratory or skin sensitization	: No data available.

SAFETY DATA SHEET

ANTIBACTERIAL HAND SOAP

Carcinogenicity

- IARC : No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.
- OSHA : No ingredient of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- NTP : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12 – ECOLOGICAL INFORMATION

- Ecological Tests : Data is not available.
- Environmental Impact : The product ingredients are expected to be safe for the environment at the concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices.

SECTION 13 – DISPOSAL CONSIDERATIONS

- Disposal methods : The product should not be allowed to enter drains, water courses or the soil. When possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
- Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

SECTION 14 – TRANSPORT INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes. The shipper / consignor / sender are responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Shipment	Identification Number	Proper Shipping Name	Hazardous Classification	Packaging Group
US DOT	Not dangerous goods	N/A	N/A	None
IATA (Air)	Not dangerous goods	N/A	N/A	None
IMDG (Vessel)	Not dangerous goods	N/A	N/A	None

SAFETY DATA SHEET

ANTIBACTERIAL HAND SOAP

SECTION 15 – REGULATORY INFORMATION

U.S. Federal Regulations

TSCA 8(b) Inventory : All components are listed or exempted.

SARA 302/304/311/312 : No listed substance.

Extremely Hazardous

Substances

SARA 302/304 Emergency : No listed substance.

Planning and Notification

SECTION 16 - OTHER INFORMATION

NFPA 704:



HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARDS	0

Issuing date : 06/23/2017

Version : 1.0

Prepared by : Regulatory Compliance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

Version 1.3 Revision Date 04/12/2022

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : BCL FOAM FRAG-WTRLY PEAR_2x2.5GL

Material number : V38536

Manufacturer or supplier's details

Company : NCS Vehicle Care Inc.

Address : 1997 American Blvd.

De Pere, WI 54115

Telephone : 877-326-9274

Emergency telephone numbers

For SDS Information : www.ncsvehiclecare.com

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency Recorded. In the District of Columbia
: CHEMTREC: 800-424-9300 - All Calls 202-483-7616

Recommended use of the chemical and restrictions on use

Recommended use : Air Care

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	colourless, light yellow
Odour	characteristic

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

P264 Wash skin thoroughly after handling.
P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/

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SAFETY DATA SHEET

BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

Version 1.3 Revision Date 04/12/2022

attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
Alcohols, C12-16, ethoxylated	68551-12-2	>= 5 - < 10
Alcohols, C12-15, ethoxylated	68131-39-5	>= 1 - < 5

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : If in eyes or on skin, rinse well with water.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Rinse immediately with plenty of water and seek medical advice.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

exposure (dose, concentration, contact time).

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

: Effects are immediate and delayed.

Review section 2 of SDS to see all potential hazards.

Symptoms may include irritation, redness, pain, and rash. Effects are dependent on

Notes to physician : Treat symptomatically. Symptoms may be delayed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing : High volume water jet

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SAFETY DATA SHEET

BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

Version 1.3 Revision Date 04/12/2022

media	Carbon monoxide Smoke
Hazardous combustion products	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific extinguishing methods	: Wear self-contained breathing apparatus for firefighting if necessary.
Special protective equipment for firefighters	
: Carbon dioxide (CO ₂)	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Evacuate personnel to safe areas. Material can create slippery conditions.
Ensure adequate ventilation.	
Environmental precautions	: No special environmental precautions required.
Methods and materials for containment and cleaning up	sand, silica gel, acid binder, universal binder, sawdust).
: Soak up with inert absorbent material (e.g.	Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	: Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

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SAFETY DATA SHEET

BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

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Hand protection

Material : Gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Wear suitable protective equipment.

When using do not eat, drink or smoke.

Hygiene measures : Wash hands before breaks and immediately after handling the product.

Remove contaminated clothing and protective equipment before entering eating areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless, light yellow

Odour : characteristic

Odour Threshold : No data available

pH : 5.5 - 8.5

Boiling point : > 100 °C

Flash point : > 100 °C

Evaporation rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 1 - 1.015

Density : Not applicable

Solubility(ies)

Water solubility : soluble

Partition coefficient: n : No data available
octanol/water

Auto-ignition temperature : not determined Thermal
decomposition : No data available

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SAFETY DATA SHEET

BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

Version 1.3 Revision Date 04/12/2022

Viscosity

Viscosity, kinematic : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Chemical stability : Stable under normal conditions.
directed.

Possibility of hazardous reactions
: No decomposition if stored and applied as

Conditions to avoid : No data available Incompatible
materials : None.

Hazardous decomposition products directed.
: No decomposition if stored and applied as

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical : None known.
Condition

Symptoms of Overexposure : Effects are immediate and delayed.
Symptoms may include irritation, redness, pain, and rash.
Effects are dependent on exposure (dose, concentration,
contact time).

Carcinogenicity:

IARC No component of this product present at levels greater than or equal to 0.1% is identified
as probable, possible or confirmed
human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is
identified as a carcinogen or potential
carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or equal to 0.1% is on

OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

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SAFETY DATA SHEET

BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

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Components:

Alcohols, C12-15, ethoxylated:

Acute oral toxicity : LD50 Oral Rat: 500 - 5,000 mg/kg

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: Irritating to eyes.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

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SAFETY DATA SHEET

BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

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Bioaccumulative potential

Product:

Partition coefficient:
n octanol/water

Other adverse effects

No data available

Mobility in soil

No data available

Product:

: Remarks: No data available

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric
Ozone - CAA Section 602 Class I
Substances

Remarks This product neither contains, nor was manufactured with a Class I or
Class II ODS as defined by the U.S.
Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A
+ B).
: No data available

Additional ecological
information

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with
chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA):
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel):
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Cargo Air):
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

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SAFETY DATA SHEET

BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

Version 1.3 Revision Date 04/12/2022

Transportation Regulation: IATA (Passenger Air):
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: TDG (Canada):
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
formaldehyde	50-00-0	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
formaldehyde	50-00-0	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

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SAFETY DATA SHEET

BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

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WARNING: This product can expose you to chemicals including dichloroacetic acid, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

DSL All components of this product are on the Canadian DSL

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

SECTION 16. OTHER INFORMATION

Further information

NFPA: HMIS III:

Flammability				HAZARD
Instability				
Health	0		2 1 0	PHYSICAL

Special hazard.

OSHA - GHS Label Information:

Signal word : **Warning:**

Hazard statements : Causes serious eye irritation. Precautionary statements :

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Hazard pictograms :



Prevention: Wash skin thoroughly after handling. Wear eye protection/ face protection. **Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

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SAFETY DATA SHEET

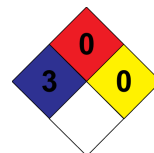
BCL FOAM FRAG-WTRLY PEAR_2x2.5Gal

Version 1.3 Revision Date 04/12/2022

Version:	1.3
Revision Date:	04/12/2022

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this

manufacturer, supplier or distributor.



Date of compilation: 5/4/2022

Revised: 6/7/2022

Version: 5 (Replaced 4)

SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** V38336 - Blue Coral Optimize
- Other means of identification:**
Non-applicable
- 1.2 Recommended use of the chemical and restrictions on use:**
Relevant uses: Chemical cleaning products
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
National Carwash Solutions
1997 American Blvd
54115 De Pere - United States
Phone: 9203372175 - Fax: 9203379410
<http://cleaningsystemsinc.com>
- 1.4 Emergency phone number:** 1-800-424-9300 or 1-703-527-3887

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

NFPA:

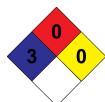
Health Hazards: 3
Flammability Hazards: 0
Instability Hazards: 0
Special Hazards: Non-applicable

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1A: Skin corrosion, Category 1A, H314

2.2 Label elements:

NFPA:



29 CFR 1910.1200:

Danger



Hazard statements:

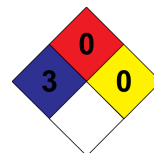
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Precautionary statements:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after use.
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a poison center/doctor.

Substances that contribute to the classification

- CONTINUED ON NEXT PAGE -



Date of compilation: 5/4/2022

Revised: 6/7/2022

Version: 5 (Replaced 4)

SECTION 2: HAZARD(S) IDENTIFICATION (continued)

Amine Oxide; Ethoxylated Alcohol; Urea hydrochloride

Acute Toxicity Estimate (ATE mix):

6.92 % (oral) of the mixture consists of ingredient(s) of unknown toxicity

Additional labeling:

Keep out of the reach of children

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: Proprietary	Amine Oxide Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	5 - <10 %
CAS: Proprietary	Ethoxylated Alcohol Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	<5 %
CAS: 506-89-8	Urea hydrochloride Acute Tox. 4: H302; Skin Corr. 1B: H314 - Danger	<5 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

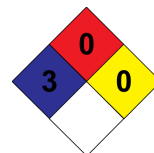
By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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SECTION 4: FIRST-AID MEASURES (continued)

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

See section 8.

6.2 Environmental precautions:

The characteristic of corrosivity per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D002 could apply. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

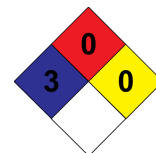
6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

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SECTION 7: HANDLING AND STORAGE (continued)

A.- General precautions for safe use

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Maintain order, cleanliness and destroy using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 24.8 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
	TLV-TWA		1 mg/m³
ε-caprolactam CAS: 105-60-2	TLV-STEL		3 mg/m³

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

Identification	Occupational exposure limits		
	PEL		1 mg/m³
ε-caprolactam CAS: 105-60-2	STEL		3 mg/m³

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
 Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical protection gloves. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

National volatile organic compound emission standards (40 CFR Part 59):

V.O.C.(weight-percent):	0.2 % weight
V.O.C. at 68 °F:	13.43 kg/m ³ (13.43 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

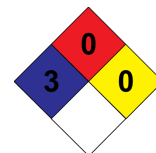
Appearance:

Physical state at 68 °F:	Liquid
Appearance:	Not available
Color:	Red
Odor:	Not available
Odour threshold:	Non-applicable *

Volatility:

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Boiling point at atmospheric pressure:	212 °F
Vapour pressure at 68 °F:	2349 Pa
Vapour pressure at 122 °F:	12377.33 Pa (12.38 kPa)
Evaporation rate at 68 °F:	Non-applicable *
Product description:	
Density at 68 °F:	1033.3 kg/m ³
Relative density at 68 °F:	1.033
Dynamic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 104 °F:	Non-applicable *
Concentration:	Non-applicable *
pH:	≈0.5 - 2.5
Vapour density at 68 °F:	Non-applicable *
Partition coefficient n-octanol/water 68 °F:	Non-applicable *
Solubility in water at 68 °F:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>199.4 °F)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	500 °F
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Particle characteristics:	
Median equivalent diameter:	Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *

Other safety characteristics:

Surface tension at 68 °F:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

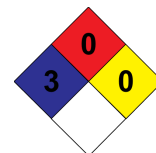
10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

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SECTION 10: STABILITY AND REACTIVITY (continued)

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

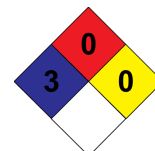
- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: ϵ -caprolactam (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Ethoxylated Alcohol CAS: Proprietary	LD50 oral	500 mg/kg (ATEi)	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Urea hydrochloride CAS: 506-89-8	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	6395.5 mg/kg (Calculation method)	6.92 %
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

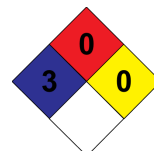
SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
Amine Oxide	LC50	Non-applicable		
CAS: Proprietary	EC50	0.55 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

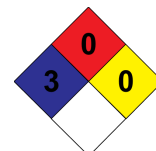


- 14.1 UN number:** UN1760
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Urea hydrochloride)
- 14.3 Transport hazard class(es):** 8
- Labels:** 8
- 14.4 Packing group, if applicable:** II
- 14.5 Marine pollutant:** No
- 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
- Physico-Chemical properties: see section 9
- Limited quantities: 1 L
- 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 39-18:

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SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number:** UN1760
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Urea hydrochloride)
- 14.3 Transport hazard class(es):** 8
Labels: 8
- 14.4 Packing group, if applicable:** II
- 14.5 Marine pollutant:** No
- 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
Special regulations: 274
EmS Codes: F-A, S-B
Physico-Chemical properties: see section 9
Limited quantities: 1 L
Segregation group: SGG1
- 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:



- 14.1 UN number:** UN1760
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Urea hydrochloride)
- 14.3 Transport hazard class(es):** 8
Labels: 8
- 14.4 Packing group, if applicable:** II
- 14.5 Marine pollutant:** No
- 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Non-applicable

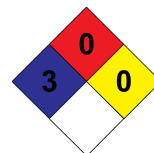
SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): Non-applicable
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable
The Toxic Substances Control Act (TSCA) : Amine Oxide ; Ethoxylated Alcohol ; Urea hydrochloride
Massachusetts RTK - Substance List: Non-applicable
New Jersey Worker and Community Right-to-Know Act: Non-applicable
New York RTK - Substance list: Non-applicable
Pennsylvania Worker and Community Right-to-Know Law: Non-applicable
CANADA-Domestic Substances List (DSL): Amine Oxide ; Ethoxylated Alcohol ; Urea hydrochloride
CANADA-Non-Domestic Substances List (NDSL): Non-applicable
NTP (National Toxicology Program): Non-applicable
Minnesota - Hazardous substances ERTK: Non-applicable
Rhode Island - Hazardous substances RTK: Non-applicable
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
Hazardous Air Pollutants (Clean Air Act): Non-applicable
CALIFORNIA LABOR CODE - The Hazardous Substances List: Non-applicable
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Non-applicable

Specific provisions in terms of protecting people or the environment:

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SECTION 15: REGULATORY INFORMATION (continued)

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 4: H302 - Harmful if swallowed.

Eye Dam. 1: H318 - Causes serious eye damage.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

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Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

Safety Data Sheet



SECTION 1 IDENTIFICATION

Chevron and Texaco Unleaded Gasolines (All Grades)

Recommended Use: Fuel

Restrictions on Use: For use as a motor fuel only.

Other means of identification: Automotive, Calco Mid-Grade Unleaded Gasoline, Calco Premium Gasoline, Calco Regular Unleaded Gasoline, CHEVRON and TEXACO MID-GRADE UNLEADED GASOLINES, CHEVRON and TEXACO PREMIUM UNLEADED GASOLINES, CHEVRON and TEXACO REGULAR UNLEADED GASOLINES, Chevron Mid-Grade Unleaded Gasoline, Chevron Plus Unleaded Gasoline, Chevron Premium Unleaded Gasoline, Chevron Regular Unleaded Gasoline, Chevron Supreme Plus Unleaded Gasoline, Chevron Supreme Unleaded Gasoline, Chevron UL/CQ Gasoline, GASOLINE (GENERIC), Gasolines, Texaco Power Plus Gasoline, Texaco Power Premium Unleaded Gasoline, Texaco Unleaded Gasoline, UNLEADED GASOLINE FOR EXPORT

Company Identification

Chevron Products Company
1400 Smith Street
Houston, TX 77002
United States of America

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887

Health Emergency

Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

Product Information

Product Information: (800) 582-3835
SDS Requests: (800) 414-6737

SPECIAL NOTES: This SDS applies to: all motor gasoline.

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION:

- Flammable liquid: Category 1.
- Aspiration toxicant: Category 1.
- Carcinogen: Category 1B.
- Eye irritation: Category 2A.
- Germ Cell Mutagen: Category 1B.
- Reproductive toxicant (developmental): Category 2.
- Skin irritation: Category 2.
- Target organ toxicant (central nervous system): Category 3.
- Target organ toxicant (repeated exposure): Category 1.
- Acute aquatic toxicant: Category 2.

- Chronic aquatic toxicant: Category 2.



Signal Word: Danger

Physical Hazards:

- Extremely flammable liquid and vapour.

Health Hazards:

- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause drowsiness or dizziness.
- May cause genetic defects.
- May cause cancer.
- Suspected of damaging the unborn child.
- Causes damage to organs (Blood/Blood Forming Organs) through prolonged or repeated exposure.

Environmental Hazards:

- Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

General:

- Keep out of reach of children.
- Read label before use.

Prevention:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.
- Keep cool.
- Ground and bond container and receiving equipment.
- Use explosion-proof electrical, ventilating, lighting, and equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe fume, gas, mist, vapours, or spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves, protective clothing, eye protection, and face protection.

Response:

- IF SWALLOWED: Immediately call a POISON CENTER, doctor, or physician.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice or attention.
- Specific treatment (see Notes to Physician on this label).
- Do NOT induce vomiting.
- If skin irritation occurs: Get medical advice or attention.
- If eye irritation persists: Get medical advice or attention.

- Wash contaminated clothing before reuse.
- In case of fire: Use media specified in the SDS to extinguish.
- Collect spillage.

Storage:

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

Disposal:

- Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Substance(s) or Complex Substance(s) required for disclosure

COMPONENTS	CAS NUMBER	AMOUNT
Gasoline	86290-81-5	100 %volume

Hazardous Constituent(s) Contained in Complex Substance(s) required for disclosure

COMPONENTS	CAS NUMBER	AMOUNT
Toluene	108-88-3	1 - 35 %volume
Pentane, 2,2,4-trimethyl-	540-84-1	10 - 15 %volume
Xylene	1330-20-7	1 - 15 %volume
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5-isomer)	25551-13-7	5 - 10 %volume
Pentane isomers (pentanes)	Mixture	1 - 13 %volume
Butane	106-97-8	0 - 12 %volume
Ethanol	64-17-5	0 - 10 %volume
Hexane	110-54-3	1 - 5 %volume
Benzene	71-43-2	0.1 - 5 %volume
Heptane	142-82-5	1 - 4 %volume
Cyclohexane	110-82-7	1 - 3 %volume
Ethylbenzene	100-41-4	0.1 - 3 %volume
Methylcyclohexane	108-87-2	1 - 2 %volume
Naphthalene	91-20-3	0.1 - 2 %volume
Cumene	98-82-8	0 - 0.3 %volume

Motor gasoline is considered a mixture by EPA under the Toxic Substances Control Act (TSCA). The refinery streams used to blend motor gasoline are all on the TSCA Chemical Substances Inventory. The appropriate CAS number for refinery blended motor gasoline is 86290-81-5. The product specifications of motor gasoline sold in your area will depend on applicable Federal and State regulations.

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye: Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention.

Skin: Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything

by mouth to an unconscious person.

Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue or if any other symptoms develop.

Most important symptoms and effects, both acute and delayed

IMMEDIATE HEALTH EFFECTS

Eye: Contact with the eyes causes severe irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision.

Skin: Contact with the skin causes irritation. Skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response.

Ingestion: Highly toxic; may be fatal if swallowed. Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

Inhalation: Excessive or prolonged breathing of this material may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

DELAYED OR OTHER HEALTH EFFECTS:

Reproduction and Birth Defects: Contains material that may cause harm to the unborn child if inhaled above the recommended exposure limit.

Cancer: Prolonged or repeated exposure to this material may cause cancer. Gasoline has been classified as a Group 1 carcinogen (carcinogenic to humans on the basis of sufficient evidence for cancer in humans and the combination of sufficient evidence for cancer in experimental animals and strong mechanistic evidence in exposed humans) by the International Agency for Research on Cancer (IARC). Whole gasoline exhaust has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains benzene, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains ethylbenzene which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains ethanol, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains cumene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Genetic Toxicity: Contains material that may cause heritable genetic damage based on animal data.

Target Organs: Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit: Blood/Blood Forming Organs See Section 11 for additional information. Risk depends on duration and level of exposure.

Indication of any immediate medical attention and special treatment needed

Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry Chemical, CO₂, water spray (fog) or alcohol resistant foam.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet.

Unusual Fire Hazards: See Section 7 for proper handling and storage.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Observe all relevant local and international regulations. Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator. Keep out unnecessary and unprotected personnel. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions and wear appropriate personal protective equipment as indicated in Section 8.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Never siphon gasoline by mouth.

Do not store in open or unlabeled containers. READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. Use only as a motor fuel. Do not use for cleaning, pressure appliance fuel, or any other such use. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Wash thoroughly after handling. Keep out of the reach of children.

Static Hazard: Improper filling of portable gasoline containers creates danger of fire. Only dispense gasoline into approved and properly labeled gasoline containers. Always place portable containers on the ground. Be sure pump nozzle is in contact with the container while filling. Do not use a nozzle's lock-open device. Do not fill portable containers that are inside a vehicle or truck/trailer bed.

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To

minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

General Storage Information: DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces . USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

ENGINEERING CONTROLS:

Use general ventilation, local exhaust ventilation, or a combination of both.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin Protection: Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. **Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced.** Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Butyl	0.7	7
Neoprene	0.61	7
Nitrile	0.8	60
Nitrile	0.23	2
Polyvinyl Chloride (PVC)	1.1	2

Viton Butyl	0.3	120
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Respiratory Protection: Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors. When used as a fuel, this material can produce carbon monoxide in the exhaust. Determine if airborne concentrations are below the occupational exposure limit for carbon monoxide. If not, wear an approved positive-pressure air-supplying respirator. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Gasoline	ACGIH	--	300 ppm	500 ppm	--	--
Gasoline	ACGIH	Vapor	300 ppm	500 ppm	--	A3
Toluene	ACGIH	--	20 ppm	--	--	--
Toluene	OSHA Z-2	--	200 ppm	--	300 ppm	--
Pentane, 2,2,4-trimethyl-	ACGIH	--	300 ppm	--	--	--
Pentane, 2,2,4-trimethyl-	OSHA Z-1	--	2350 mg/m3	--	--	--
Xylene	ACGIH	--	20 ppm	--	--	--
Xylene	OSHA Z-1	--	435 mg/m3	--	--	--
Trimethylbenzene (3 isomers: 1,2,3-; 1,2,4-; 1,3,5- isomer)	ACGIH	--	10 ppm	--	--	--
Butane	ACGIH	--	--	1000 ppm	--	--
Ethanol	ACGIH	--	1000 ppm	1000 ppm	--	A4
Ethanol	OSHA Z-1	--	1900 mg/m3	--	--	--
Hexane	ACGIH	--	50 ppm	--	--	Skin
Hexane	OSHA Z-1	--	1800 mg/m3	--	--	--
Benzene	ACGIH	--	0.5 ppm	2.5 ppm	--	Skin
Benzene	ACGIH	Vapor	0.5 ppm	2.5 ppm	--	--
Benzene	CVX	Vapor	0.5 ppm	2.5 ppm	--	--
Benzene	OSHA SRS	--	1 ppm	5 ppm	--	29 CFR 1910.1028
Benzene	OSHA Z-2	--	10 ppm	--	25 ppm	--
Heptane	ACGIH	--	400 ppm	500 ppm	--	--
Heptane	OSHA Z-1	--	2000 mg/m3	--	--	--
Cyclohexane	ACGIH	--	100 ppm	--	--	--
Cyclohexane	OSHA Z-1	--	1050 mg/m3	--	--	--
Ethylbenzene	ACGIH	--	20 ppm	--	--	--
Ethylbenzene	ACGIH	Vapor	100 ppm	--	--	--
Ethylbenzene	OSHA Z-1	--	435 mg/m3	--	--	--
Methylcyclohexane	ACGIH	--	400 ppm	--	--	--
Methylcyclohexane	OSHA Z-1	--	2000 mg/m3	--	--	--
Naphthalene	ACGIH	--	10 ppm	--	--	Skin
Naphthalene	ACGIH	Vapor	10 ppm	15 ppm	--	A4 Skin
Naphthalene	OSHA Z-1	--	50 mg/m3	--	--	--
Cumene	ACGIH	--	5 ppm	--	--	--
Cumene	OSHA Z-1	--	245 mg/m3	--	--	Skin

Consult local authorities for appropriate values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Colorless to yellow

Physical State: Liquid
Odor: Petroleum odor
Odor Threshold: No data available
pH: Not Applicable
Vapor Pressure: 5 psi - 15.5 psi (Typical) @ 37.8 °C (100 °F)
Relative Vapor Density: 3 - 4 (Typical)
Initial Boiling Point: 27.2°C (81°F) - 52.8°C (127°F) (Typical)
Solubility: Negligible
Freezing Point: Not Applicable
Melting Point: Not Applicable
Specific Gravity: 0.7 g/ml - 0.8 g/ml @ 15.6°C (60.1°F) (Typical)
Particle Characteristics: Not applicable
Density: No data available
Kinematic Viscosity: <1 SUS @ 37.8°C (100°F)
Evaporation Rate: No data available
Decomposition temperature: No data available
Partition coefficient n-octanol/water (logarithmic value): 2 - 7

FLAMMABLE PROPERTIES:

Flammability (solid, gas): Not Applicable

Flashpoint: (Tagliabue Closed Cup ASTM D56) < -45 °C (< -49 °F)

Autoignition: > 280 °C (> 536 °F)

Flammability (Explosive) Limits (% by volume in air): Lower: 1.4 Upper: 7.6

SECTION 10 STABILITY AND REACTIVITY

Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur. May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Incompatibility With Other Materials: Not applicable

Hazardous Decomposition Products: None known (None expected)

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Serious Eye Damage/Irritation: This material causes serious eye irritation. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Corrosion/Irritation: For a 4-hour exposure, the Primary Irritation Index (PII) in rabbits is: 4.8/8.0.

Skin Sensitization: This material did not cause skin sensitization reactions in a Buehler guinea pig test.

Acute Dermal Toxicity: LD50: >3.75 g/kg (rabbit).

Acute Oral Toxicity: LD50: >5 ml/kg (rat).

Acute Inhalation Toxicity: 4 hour(s) LD50: >20000 mg/m3 (rat).

Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: This material may cause genetic defects. The product has not been tested. The

statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: This material may cause cancer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components. Gasoline has been classified as a Group 1 carcinogen (carcinogenic to humans on the basis of sufficient evidence for cancer in humans and the combination of sufficient evidence for cancer in experimental animals and strong mechanistic evidence in exposed humans) by the International Agency for Research on Cancer (IARC). Whole gasoline exhaust has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains benzene, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains ethylbenzene which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains ethanol, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains cumene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Reproductive Toxicity: This material is suspected of damaging the unborn child. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Single Exposure: This material may cause drowsiness or dizziness. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Repeated Exposure: This material causes damage to organs through prolonged or repeated exposure. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Aspiration Hazard: This material is considered an aspiration hazard based on the kinematic viscosity of the material.

ADDITIONAL TOXICOLOGY INFORMATION:

Gasolines are highly volatile and can produce significant concentrations of vapor at ambient temperatures. Gasoline vapor is heavier than air and at high concentrations may accumulate in confined spaces to present both safety and health hazards. When vapor exposures are low, or short duration and infrequent, such as during refueling and tanker loading/unloading, neither total hydrocarbon nor components such as benzene are likely to result in any adverse health effects. In situations such as accidents or spills where exposure to gasoline vapor is potentially high, attention should be paid to potential toxic effects of specific components. Information about specific components in gasoline can be found in Sections 2/3, 8 and 15 of this SDS. More detailed information on the health hazards of specific gasoline components can be obtained calling the Chevron Emergency Information Center (see Section 1 for phone numbers). Pathological misuse of solvents and gasoline, involving repeated and prolonged exposure to high concentrations of vapor is a significant exposure on which there are many reports in the medical literature. As with other solvents, persistent abuse involving repeated and prolonged exposures to high concentrations of vapor has been reported to result in central nervous system damage and eventually, death. In a study in which ten human volunteers were exposed for 30 minutes to approximately 200, 500 or 1000 ppm concentrations of gasoline vapor, irritation of the eyes was the only

significant effect observed, based on both subjective and objective assessments.

Lifetime inhalation of wholly vaporized unleaded gasoline at 2056 ppm has caused increased liver tumors in female mice and kidney cancer in male rats.

MUTAGENICITY: Gasoline was not mutagenic, with or without activation, in the Ames assay (*Salmonella typhimurium*), *Saccharomyces cerevisiae*, or mouse lymphoma assays. In addition, point mutations were not induced in human lymphocytes. Gasoline was not mutagenic when tested in the mouse dominant lethal assay. Administration of gasoline to rats did not cause chromosomal aberrations in their bone marrow cells.

EPIDEMIOLOGY: To explore the health effects of workers potentially exposed to gasoline vapors in the marketing and distribution sectors of the petroleum industry, the American Petroleum Institute sponsored a cohort mortality study (Publication 4555), a nested case-control study (Publication 4551), and an exposure assessment study (Publication 4552). Histories of exposure to gasoline were reconstructed for cohort of more than 18,000 employees from four companies for the time period between 1946 and 1985. The results of the cohort mortality study indicated that there was no increased mortality from either kidney cancer or leukemia among marketing and marine distribution employees who were exposed to gasoline in the petroleum industry, when compared to the general population. More importantly, based on internal comparisons, there was no association between mortality from kidney cancer or leukemia and various indices of gasoline exposure. In particular, neither duration of employment, duration of exposure, age at first exposure, year of first exposure, job category, cumulative exposure, frequency of peak exposure, nor average intensity of exposure had any effect on kidney cancer or leukemia mortality. The results of the nested case-control study confirmed the findings of the original cohort study. That is, exposure to gasoline at the levels experienced by this cohort of distribution workers is not a significant risk factor for leukemia (all cell types), acute myeloid leukemia, kidney cancer or multiple myeloma.

This product contains naphthalene.

GENERAL TOXICITY: Exposure to naphthalene has been reported to cause methemoglobinemia and/or hemolytic anemia, especially in humans deficient in the enzyme glucose-6-phosphate dehydrogenase. Laboratory animals given repeated oral doses of naphthalene have developed cataracts.

REPRODUCTIVE TOXICITY AND BIRTH DEFECTS: Naphthalene did not cause birth defects when administered orally to rabbits, rats, and mice during pregnancy, but slightly reduced litter size in mice at dose levels that were lethal to the pregnant females. Naphthalene has been reported to cross the human placenta.

GENETIC TOXICITY: Naphthalene caused chromosome aberrations and sister chromatid exchanges in Chinese hamster ovary cells, but was not a mutagen in several other in-vitro tests.

CARCINOGENICITY: In a study conducted by the National Toxicology Program (NTP), mice exposed to 10 or 30 ppm of naphthalene by inhalation daily for two years had chronic inflammation of the nose and lungs and increased incidences of metaplasia in those tissues. The incidence of benign lung tumors (alveolar/bronchiolar adenomas) was significantly increased in the high-dose female group but not in the male groups. In another two-year inhalation study conducted by NTP, exposure of rats to 10, 30, and 60 ppm naphthalene caused increases in the incidences of a variety of nonneoplastic lesions in the nose. Increases in nasal tumors were seen in both sexes, including olfactory neuroblastomas in females at 60 ppm and adenomas of the respiratory epithelium in males at all exposure levels. The relevance of these effects to humans has not been established. No carcinogenic effect was reported in a 2-year feeding study in rats receiving naphthalene at 41 mg/kg/day.

This product contains cyclohexane.

Cyclohexane primarily affects the central nervous systems of laboratory animals and humans. Acute or prolonged inhalation of cyclohexane at levels below the recommended exposure limits does not result in

toxic effects while acute exposures to levels above these recommended limits can cause reversible central nervous system depression. Prolonged exposures of laboratory animals to high levels (up to low thousands of parts per million) have also caused reversible effects which included hyperactivity, diminished response to stimuli, and adaptive liver changes while very high levels (high thousands of parts per million) were fatal. No developmental effects were seen in rats or rabbits following exposures of up to 7000 ppm cyclohexane. No reproductive effects occurred in rats, although postnatal pup growth was reduced at 7000 ppm in a similar manner as observed in the parental animals. Cyclohexane has not been shown to be mutagenic in several in vitro and in vivo assays and has not produced tumors in several dermal application long-term bioassays. Based on these results and the lack of any mutagenic or genotoxic metabolites, cyclohexane is not expected to be mutagenic or genotoxic. Following dermal exposure, cyclohexane is rapidly absorbed, metabolized, and excreted.

This product contains ethanol (ethyl alcohol). Chronic ingestion of ethanol can damage the liver, nervous system and heart. Chronic heavy consumption of alcoholic beverages has been associated with an increased risk of cancer. Ingestion of ethanol during pregnancy can cause human birth defects such as fetal alcohol syndrome.

This product contains butane. An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure.

This product contains benzene. GENETIC TOXICITY/CANCER: Repeated or prolonged breathing of benzene vapor has been associated with the development of chromosomal damage in experimental animals and various blood diseases in humans ranging from aplastic anemia to leukemia (a form of cancer). All of these diseases can be fatal. In some individuals, benzene exposure can sensitize cardiac tissue to epinephrine which may precipitate fatal ventricular fibrillation.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY: No birth defects have been shown to occur in pregnant laboratory animals exposed to doses not toxic to the mother. However, some evidence of fetal toxicity such as delayed physical development has been seen at such levels. The available information on the effects of benzene on human pregnancies is inadequate but it has been established that benzene can cross the human placenta.

OCCUPATIONAL: The OSHA Benzene Standard (29 CFR 1910.1028) contains detailed requirements for training, exposure monitoring, respiratory protection and medical surveillance triggered by the exposure level. Refer to the OSHA Standard before using this product.

This product contains n-hexane. TARGET ORGAN TOXICITY: Prolonged or repeated ingestion, skin contact or breathing of vapors of n-hexane has been shown to cause peripheral neuropathy. Recovery ranges from no recovery to complete recovery depending upon the severity of the nerve damage. Exposure to 1000 ppm n-hexane for 18 hr/day for 61 days has been shown to cause testicular damage in rats. However, when rats were exposed to higher concentrations for shorter daily periods (10,000 ppm for 6 h/day, 5 days/wk for 13 weeks), no testicular lesions were seen.

CARCINOGENICITY: Chronic exposure to commercial hexane (52% n-hexane) at a concentration of 9000ppm was not carcinogenic to rats or to male mice, but did result in an increased incidence of liver tumors in female mice. No carcinogenic effects were observed in female mice exposed to 900 or 3000 ppm hexane or in male mice. The relevance for humans of these hexane-induced mouse liver tumors is questionable.

GENETIC TOXICITY: n-Hexane caused chromosome aberrations in bone marrow of rats, but was negative in the Ames and mouse lymphoma tests.

This product contains ethylbenzene.

BIRTH DEFECTS AND REPRODUCTION: Ethylbenzene is not expected to cause birth defects or other developmental effects based on well-conducted studies in rabbits and rats sponsored by NIOSH. Other studies in rats and mice which reported urinary tract malformations have many deficiencies and have limited usefulness in evaluating human risk. Reproductive effects are not expected based on a NIOSH study of fertility, and lack of effects observed for sperm counts and motility, estrous cycle and pathology of reproductive organs following repeated exposures.

HEARING: Statistically significant losses in outer hair cells (OHCs) were observed in rats exposed to ≥ 200 ppm ethylbenzene, 6 hours/day, 6 days/week for 13 weeks, after an 8-week recovery period. Following longer exposure, inner hair cells losses were also observed in rats exposed to ≥ 600 ppm ethylbenzene, but only occasionally in rats exposed to 400 ppm. The Lowest Observed Adverse Effect Level in rats (LOAEL) was 200 ppm for losses of OHCs. Guinea pigs exposed to ethylbenzene at 2,500 ppm, 6 hours/day for 5 days did not show auditory deficits or losses in OHCs. The concentration of ethylbenzene used in the JP-8 study was approximately 10 ppm.

GENETIC TOXICITY: Ethylbenzene tested negative in the bacterial mutation test, Chinese Hamster Ovary (CHO) cell in vitro assay, sister chromatid exchange assay and an unscheduled DNA synthesis assay. Conflicting results have been reported for the mouse lymphoma cell assay. Increased micronuclei were reported in an in vitro Syrian hamster embryo cell assay; however, two in vivo micronuclei studies in mice were negative. In Syrian hamster embryo cells in vitro, cell transformation was observed at 7 days of incubation but not at 24 hours. Based on these results, ethylbenzene is not expected to be mutagenic or clastogenic.

CARCINOGENICITY: In studies conducted by the National Toxicology Program, rats and mice were exposed to ethylbenzene at 25, 250 and 750 ppm for six hours per day, five days per week for 103 weeks. In rats exposed to 750 ppm, the incidence of kidney tubule hyperplasia and tumors was increased. Testicular tumors develop spontaneously in nearly all rats if allowed to complete their natural life span; in this study, the development of these tumors appeared to be enhanced in male rats exposed to 750 ppm. In mice, the incidences of lung tumors in males and liver tumors in females exposed to 750 ppm were increased as compared to control mice but were within the range of incidences observed historically in control mice. Other liver effects were observed in male mice exposed to 250 and 750 ppm. The incidences of hyperplasia were increased in the pituitary gland in female mice at 250 and 750 ppm and in the thyroid in male and female mice at 750 ppm.

This product contains cumene.

SUBCHRONIC TOXICITY: Two subchronic inhalation studies, in which rats of each sex were exposed for six hours/day, five days/week for thirteen weeks to 0, 50, 100, 500 or 1200 ppm cumene vapor, found that rats exposed to 500 and 1200 ppm had increases in weights of liver, kidneys and adrenals, and microscopic changes in the kidneys. Decreased motor activity in male rats exposed to 500 and 1200 ppm was observed in the first study, but was not duplicated in the second study. Cataracts in the lenses of the eyes, which occurred in both treated and untreated rats in the first study, were not statistically higher in treated animals in the second study, indicating that cumene did not cause cataracts. There were no exposure-related changes in hearing (auditory brainstem response), spermatogenesis or responses in the functional observation battery.

DEVELOPMENTAL TOXICITY: In inhalation developmental toxicity studies, there was no evidence of developmental effects either in rabbits exposed to levels up to 2300 ppm on days 6-8 of gestation or in rats exposed to levels up to 1200 ppm on days 6-15 of gestation.

GENETICTOXICITY: Cumene was not genotoxic in several in vitro assays including the Ames test, and unscheduled DNA synthesis assay and the Chinese hamster ovary cell chromosome aberration assay.

CARCINOGENICITY: IARC has classified cumene as "possibly carcinogenic to humans" (Group 2B). Key findings from lifetime inhalation studies in laboratory rodents were as follows: An increased incidence of kidney tumors was observed in male rats only. These tumors are consistent with alpha-2u-globulin-mediated nephropathy, an effect specific to male rats and is considered irrelevant to humans. An increased incidence of liver tumors was observed in female mice only, and an increased incidence of lung tumors was observed in both male and female mice. The relevance of these cumene-induced liver and lung tumors to humans has not been established.

This product contains toluene.

GENERAL TOXICITY: The primary effects of exposure to toluene in animals and humans are on the central nervous system. Solvent abusers, who typically inhale high concentrations (thousands of ppm) for brief periods of time, in addition to experiencing respiratory tract irritation, often suffer permanent central nervous system effects that include tremors, staggered gait, impaired speech, hearing and vision loss, and changes in brain tissue. Death in some solvent abusers has been attributed to cardiac arrhythmias, which appear to have been triggered by epinephrine acting on solvent sensitized cardiac tissue. Although liver and kidney effects have been seen in some solvent abusers, results of animal testing with toluene do not support these as primary target organs.

HEARING: Humans who were occupationally exposed to concentrations of toluene as low as 100 ppm for long periods of time have experienced hearing deficits. Hearing loss, as demonstrated using behavioral and electrophysiological testing as well as by observation of structural damage to cochlear hair cells, occurred in experimental animals exposed to toluene at high concentrations. It also appears that toluene exposure and noise may interact to produce hearing deficits.

COLOR VISION: In a single study of workers exposed to toluene at levels under 50 ppm, small decreases in the ability to discriminate colors in the blue-yellow range have been reported for female workers. This effect, which should be investigated further, is very subtle and would not likely have been noticed by the people tested.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY: Toluene may also cause mental and/or growth retardation in the children of female solvent abusers who directly inhale toluene (usually at thousands of ppm) when they are pregnant. Toluene caused growth retardation in rats and rabbits when administered at doses that were toxic to the mothers. In rats, concentrations of up to 5000 ppm did not cause birth defects. No effects were observed in the offspring at doses that did not intoxicate the pregnant animals. The exposure level at which no effects were seen (No Observed Effect Level, NOEL) is 750 ppm in the rat and 500 ppm in the rabbit.

This product contains xylene.

ACUTE TOXICITY: The primary effects of exposure to xylene in animals and humans are on the central nervous system. In addition, in some individuals, xylene exposure can sensitize cardiac tissue to epinephrine which may precipitate fatal ventricular fibrillation.

DEVELOPMENTAL TOXICITY: Xylene has been reported to cause developmental toxicity in rats and mice exposed by inhalation during pregnancy. The effects noted consisted of delayed development and minor skeletal variations. In addition, when pregnant mice were exposed by ingestion to a level that killed nearly one-third of the test group, lethality (resorptions) and malformations (primarily cleft palate) occurred. Since xylene can cross the placenta, it may be appropriate to prevent exposure during pregnancy.

GENETIC TOXICITY/CARCINOGENICITY: Xylene was not genotoxic in several mutagenicity testing

assays including the Ames test. In a cancer study sponsored by the National Toxicology Program (NTP), technical grade xylene gave no evidence of carcinogenicity in rats or mice dosed daily for two years.

HEARING: Mixed xylenes have been shown to cause measurable hearing loss in rats exposed to 800 ppm in the air for 14 hours per day for six weeks. Exposure to 1450 ppm xylene for 8 hours caused hearing loss while exposure to 1700 ppm for 4 hours did not. Although no information is available for lower concentrations, other chemicals that cause hearing loss in rats at relatively high concentrations do not cause hearing loss in rats at low concentrations. Worker exposure to xylenes at the permissible exposure limit (100 ppm, time-weighted average) is not expected to cause hearing loss.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

Gasoline studies have been conducted in the laboratory under a variety of test conditions with a range of fish and invertebrate species. An even more extensive database is available on the aquatic toxicity of individual aromatic constituents. The majority of published studies do not identify the type of gasoline evaluated, or even provide distinguishing characteristics such as aromatic content or presence of lead alkyls. As a result, comparison of results among studies using open and closed vessels, different ages and species of test animals and different gasoline types, is difficult.

The bulk of the available literature on gasoline relates to the environmental impact of monoaromatic (BTX) and diaromatic (naphthalene, methylnaphthalenes) constituents. In general, non-oxygenated gasoline exhibits some short-term toxicity to freshwater and marine organisms, especially under closed vessel or flow-through exposure conditions in the laboratory. The components which are the most prominent in the water soluble fraction and cause aquatic toxicity, are also highly volatile and can be readily biodegraded by microorganisms.

This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

96 hour(s) LC50: 8.3 mg/l (Cyprinodon variegatus)
96 hour(s) LC50: 1.8 mg/l (Mysidopsis bahia)
96 hour(s) LC50: 2.7 mg/l (Oncorhynchus mykiss)
48 hour(s) LC50: 3.0 mg/l (Daphnia magna)

MOBILITY

No data available.

PERSISTENCE AND DEGRADABILITY

This material is expected to be readily biodegradable. Following spillage, the more volatile components of gasoline will be rapidly lost, with concurrent dissolution of these and other constituents into the water. Factors such as local environmental conditions (temperature, wind, mixing or wave action, soil type, etc), photo-oxidation, biodegradation and adsorption onto suspended sediments, can contribute to the weathering of spilled gasoline.

The aqueous solubility of non-oxygenated unleaded gasoline, based on analysis of benzene, toluene, ethylbenzene+xylenes and naphthalene, is reported to be 112 mg/l. Solubility data on individual gasoline constituents also available.

The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Partition coefficient n-octanol/water (logarithmic value): 2 - 7

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: UN1203, GASOLINE, 3, II; OPTIONAL DISCLOSURE: UN1203, GASOLINE, 3, II, MARINE POLLUTANT (GASOLINE)

IMO/IMDG Shipping Description: UN1203, GASOLINE, 3, II, FLASH POINT SEE SECTION 9, MARINE POLLUTANT (GASOLINE)

ICAO/IATA Shipping Description: UN1203, GASOLINE, 3, II

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Not applicable

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:

Aspiration Hazard

Carcinogenicity

Flammable (gases, aerosols, liquids, or solids)

Germ cell mutagenicity

Reproductive toxicity

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	05=MA RTK
01-2A=IARC Group 2A	06=NJ RTK
01-2B=IARC Group 2B	07=PA RTK
02=NTP Carcinogen	08-1=TSCA 5(e)
03=EPCRA 313	08-2=TSCA 12(b)
04=CA Proposition 65	

The following components of this material are found on the regulatory lists indicated.

Gasoline	01-1, 07
Toluene	03, 04, 05, 06, 07
Pentane, 2,2,4-trimethyl-	05, 06, 07
Xylene	03, 05, 06, 07

Trimethylbenzene (3 isomers: 05, 06, 07 1,2,3-; 1,2,4-; 1,3,5- isomer)	
Butane	05, 06, 07
Ethanol	01-1, 02, 04, 05, 06, 07
Hexane	03, 04, 05, 06, 07, 08-2
Benzene	01-1, 02, 03, 04, 05, 06, 07
Heptane	05, 06, 07, 08-2
Cyclohexane	03, 05, 06, 07, 08-2
Ethylbenzene	01-2B, 03, 04, 05, 06, 07
Methylcyclohexane	05, 06, 07
Naphthalene	01-2B, 02, 03, 04, 05, 06, 07
Cumene	01-2B, 02, 03, 04, 05, 06, 07

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AIIIC (Australia), DSL (Canada), EINECS (European Union), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States).

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 3 Reactivity: 0

HMIS RATINGS: Health: 2* Flammability: 3 Reactivity: 0
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the American Coatings Association (ACA) (for HMIS ratings).

REVISION STATEMENT:

SECTION 01 - Company SDS Address information was modified.
SECTION 01 - Health Emergency information was modified.
SECTION 01 - Product Information information was modified.
SECTION 01 - Product Synonym information was added.
SECTION 02 - Precautionary Statements information was modified.
SECTION 03 - Composition information was modified.
SECTION 04 - Delayed Health Effects - Carcinogenicity information was modified.
SECTION 05 - Extinguishing Media information was modified.
SECTION 06 - Personal Precautions, Protective Equipment and Emergency Procedures information was modified.
SECTION 08 - Occupational Exposure Limit Table information was modified.
SECTION 08 - Personal Protective Equipment List information was deleted.
SECTION 08 - Respiratory Protection information was added.
SECTION 08 - Respiratory Protection information was modified.
SECTION 08 - Skin Protection information was modified.
SECTION 09 - Physical/Chemical Properties information was modified.
SECTION 11 - Additional Toxicology Information information was modified.
SECTION 11 - Toxicological Information information was modified.
SECTION 12 - Ecological Information information was modified.
SECTION 15 - Chemical Inventories information was modified.
SECTION 15 - Regulatory Information information was modified.

Revision Date: August 26, 2025

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	PNOS - Particles Not Otherwise Specified

Prepared according to the 29 CFR 1910.1200 (2024) by Chevron.

The information in this SDS is based on the knowledge, information, and belief of Chevron and its affiliates as of the publication date. It is not a quality specification, and no warranty, express or implied, is given. We assume no responsibility or liability for the results of using this material. The information presented here pertains only to the listed product. Since conditions of use are beyond our control, it is the user's responsibility to determine the conditions for safe use of this product and assess its suitability for their application. Users should seek additional guidance if necessary.



SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date July 24, 2018

Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Clorox® Germicidal Bleach

Other means of identification

EPA Registration Number 67619-32

Recommended use of the chemical and restrictions on use

Recommended use Institutional hard surface disinfecting and sanitizing bleach

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

The Clorox Company
1221 Broadway
Oakland, CA 94612

Phone: 1-510-271-7000

Emergency telephone number

Emergency Phone Numbers

For Medical Emergencies, call: 1-800-446-1014
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

GHS Label elements, including precautionary statements**Emergency Overview**

Signal word		Danger	
Hazard Statements			
Causes severe skin burns and eye damage			
Causes serious eye damage			
			
Appearance	Clear, pale yellow	Physical State	Thin liquid
		Odor	Bleach

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves, protective clothing, face protection, and eye protection such as safety glasses.

Precautionary Statements - Response

Immediately call a poison center or doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see supplemental first aid instructions on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents in accordance with all applicable federal, state, and local regulations.

Hazards not otherwise classified (HNOC)

Although not expected, heart conditions or chronic respiratory problems such as asthma, chronic bronchitis, or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mist.

Product contains a strong oxidizer. Always flush drains before and after use.

Unknown Toxicity

Not applicable.

Other information

Very toxic to aquatic life with long lasting effects.

Interactions with Other Chemicals

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Sodium hypochlorite	7681-52-9	5 - 10	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First aid measures****General Advice**

Call a poison control center or doctor immediately for treatment advice. Show this safety data sheet to the doctor in attendance.

Eye Contact

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation

Move to fresh air. If breathing is affected, call a doctor.

Ingestion

Have person sip a glassful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.

Protection of First-aiders

Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed**Most Important Symptoms and Effects**

Burning of eyes and skin.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

This product causes burns to eyes, skin, and mucous membranes. Thermal decomposition can release sodium chlorate and irritating gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Use personal protective equipment as required. For spills of multiple products, responders should evaluate the MSDSs of the products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed and/or poorly-ventilated areas until hazard assessment is complete.

Other Information

Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental Precautions

This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams. See Section 12 for ecological information.

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Do not contaminate food or feed by storage of this product.

Incompatible Products Toilet bowl cleaners, rust removers, acids, and products containing ammonia.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hypochlorite 7681-52-9	None	None	None

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection If splashes are likely to occur: Wear safety glasses with side shields (or goggles) or face shield.

Skin and Body Protection Wear rubber or neoprene gloves and protective clothing such as long-sleeved shirt.

Respiratory Protection If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Thin liquid	Odor	Bleach
Appearance	Clear	Odor Threshold	No information available
Color	Pale yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	~12	None known
Melting/freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	Not flammable	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	~1.1	None known
Water Solubility	Soluble	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive Properties	Not explosive	
Oxidizing Properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Toilet bowl cleaners, rust removers, acids, and products containing ammonia.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Exposure to vapor or mist may irritate respiratory tract and cause coughing. Inhalation of high concentrations may cause pulmonary edema.
Eye Contact	Corrosive. May cause severe damage to eyes.
Skin Contact	May cause severe irritation to skin. Prolonged contact may cause burns to skin.
Ingestion	Ingestion may cause burns to gastrointestinal tract and respiratory tract, nausea, vomiting, and diarrhea.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms	May cause redness and tearing of the eyes. May cause burns to eyes. May cause redness or burns to skin. Inhalation may cause coughing.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	Carcinogenic potential is unknown.
Target Organ Effects	Respiratory system, eyes, skin, gastrointestinal tract (GI).
Aspiration Hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

54 g/kg

ATEmix (inhalation-dust/mist)

58 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams.

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose of in accordance with all applicable federal, state, and local regulations. Do not contaminate food or feed by disposal of this product.

Contaminated Packaging

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT

Not restricted.

TDG

Not restricted for road or rail.

ICAO

Not restricted, as per Special Provision A197, Environmentally Hazardous Substance exception.

IATA

Not restricted, as per Special Provision A197, Environmentally Hazardous Substance exception.

IMDG/IMO

Not restricted, as per IMDG Code 2.10.2.7, Marine Pollutant exception.

15. REGULATORY INFORMATION**Chemical Inventories**

TSCA All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

DSL/NDSL All components are on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite 7681-52-9	100 lb			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hypochlorite 7681-52-9	100 lb	–	RQ 100 lb final RQ RQ 45.4 kg final RQ

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER: CORROSIVE. Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the restroom. Avoid breathing vapors and use only in a well-ventilated area.

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sodium hypochlorite 7681-52-9	X	X	X	X	
Sodium chlorate 7775-09-9	X	X	X		

International Regulations**Canada****WHMIS Hazard Class**

E - Corrosive material

**16. OTHER INFORMATION**

NEPA Health Hazard 3 Flammability 0 Instability 0 Physical and Chemical Hazards -

HMIS Health Hazard 3 Flammability 0 Physical Hazard 0 Personal Protection B

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date July 24, 2018

Revision Note Revised Section 1.

Reference 1064453/166081.094

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Safety Data Sheet



SECTION 1 IDENTIFICATION

DIESEL FUEL (GENERIC)

Recommended Use: Fuel

Restrictions on Use: Consult supplier when used other than those specified.

Other means of identification: Not applicable

Company Identification

Chevron Products Company

1400 Smith Street

Houston, TX 77002

United States of America

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887

Health Emergency

Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

Product Information

SDS Requests: <http://www.chevron.com/contact/>

Technical Information: (510) 242-5357

SPECIAL NOTES: This SDS covers all Chevron, Texaco and Calco CARB & non-CARB Diesel No. 2 Fuels. The sulfur content is less than 0.5% (mass). Red dye is added to non-taxable fuel. (SDS 6894)

SPECIAL NOTES: This SDS covers all Chevron and Calco CARB Low Sulfur Diesel No. 2 Fuels. Red dye is added to non-taxable fuel. (SDS 7098)

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION:

- Flammable liquid: Category 3.
- Acute inhalation toxicant: Category 4.
- Aspiration toxicant: Category 1.
- Carcinogen: Category 1B.
- Skin irritation: Category 2.
- Target organ toxicant (central nervous system): Category 3.
- Target organ toxicant (repeated exposure): Category 2.
- Acute aquatic toxicant: Category 2.
- Chronic aquatic toxicant: Category 2.



Signal Word: Danger

Physical Hazards:

- Flammable liquid and vapour.

Health Hazards:

- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- Harmful if inhaled.
- May cause drowsiness or dizziness.
- May cause cancer.
- May cause damage to organs (Blood/Blood Forming Organs, Liver, Thymus) through prolonged or repeated exposure.

Environmental Hazards:

- Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

General:

- Keep out of reach of children.
- Read label before use.

Prevention:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.
- Keep cool.
- Ground and bond container and receiving equipment.
- Use explosion-proof electrical, ventilating, lighting, and equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe fume, gas, mist, vapours, or spray.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves, protective clothing, eye protection, and face protection.

Response:

- IF SWALLOWED: Immediately call a POISON CENTER, doctor, or physician.
- IF ON SKIN: Wash with plenty of soap and water.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF exposed or concerned: Get medical advice or attention.
- Specific treatment (see Notes to Physician on this label).
- Do NOT induce vomiting.
- If skin irritation occurs: Get medical advice or attention.
- Take off contaminated clothing and wash it before reuse.
- In case of fire: Use media specified in the SDS to extinguish.
- Collect spillage.

Storage:

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

Disposal:

- Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Diesel Fuel No. 2	68476-34-6	95 - 100 %vol/vol
Alkanes, C10-20-branched and linear	928771-01-1	0 - 5 %vol/vol
Fatty Acid Methyl Esters (FAME)	Mixture	0 - 5 %vol/vol
Naphthalene	91-20-3	0.02 - 0.2 %vol/vol
Total sulfur	Mixture	0 - 5000 ppm (weight)

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue or if any other symptoms develop.

Most important symptoms and effects, both acute and delayed

IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin causes irritation. Skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response.

Ingestion: Highly toxic; may be fatal if swallowed. Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

Inhalation: Harmful if inhaled. Excessive or prolonged breathing of this material may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

DELAYED OR OTHER HEALTH EFFECTS:

Cancer: Whole diesel engine exhaust has been classified as a Group 1 carcinogen (probably carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Prolonged or repeated exposure to this material may cause cancer. Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Target Organs: Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit based on animal data: Liver Blood/Blood Forming Organs Thymus See Section 11 for additional information. Risk depends on duration and level of exposure.

Indication of any immediate medical attention and special treatment needed

Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

UNSUITABLE EXTINGUISHING MEDIA: No data available

Unusual Fire Hazards: See Section 7 for proper handling and storage.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Observe all relevant local and international regulations. Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator. Keep out unnecessary and unprotected personnel. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions and wear appropriate personal protective equipment as indicated in Section 8.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: This material presents a fire hazard. Liquid quickly evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above -10C (15F). Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Do not breathe mist. Wash thoroughly after handling. Keep out of the reach of children.

Unusual Handling Hazards: WARNING! Do not use as portable heater or appliance fuel. Toxic fumes may accumulate and cause death. Slow heat generation may occur with oil-soaked rags, spent filter aids and spent absorbent material and may cause spontaneous combustion if stored near combustibles and not handled properly. Store biodiesel soaked rags, filter aids, and spill absorbent material in approved safety disposal containers and dispose of properly. Biodiesel soaked rags may be washed with soap and water and allowed to dry in well ventilated area.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by

themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

General Storage Information: DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces .
USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

ENGINEERING CONTROLS:

Use general ventilation, local exhaust ventilation, or a combination of both.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin Protection: Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. **Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced.** Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Neoprene	1.4	30
Nitrile	0.5	60
Nitrile	0.11	7
Polyvinyl Chloride (PVC)	1.5	30
Viton Butyl	0.3	240

Respiratory Protection: A site-specific risk assessment should be conducted by an Occupational

Hygienist or a Safety Professional to determine the type and use of respiratory protective equipment. When a site-specific risk assessment determines that respiratory protection is required, use an approved respirator such as:

Air purifying respirator -

If airborne concentration limits exceed the applicable occupational exposure limit, but are below the maximum use concentration.

Vapors only: organic vapor cartridge (filter type A3 per EN 529:2005).

Vapors and particulates (including generated mists): both an organic vapor cartridge & particulate filter (AP3 filter per EN 529:2005).

Refer to respirator manufacturers to obtain service life of cartridge / filter.

Positive pressure air-supplying respirator -

If airborne concentration limits exceed the maximum use concentration offered from an air purifying respirator.

Refer to EN 529:2005, USA OSHA 1910.134, and/or other applicable local/regional/national/international standards for regulatory requirements.

Occupational Exposure Limits:

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Diesel Fuel No. 2	ACGIH	Inhalable fraction and vapor	100 mg/m3	--	--	Skin total hydrocarbon
Diesel Fuel No. 2	ACGIH	Vapor	100 mg/m3	--	--	Skin
Diesel Fuel No. 2	ACGIH	Vapor and aerosol	100 mg/m3	--	--	Skin total hydrocarbon
Diesel Fuel No. 2	CVX	Vapor and aerosol	100 mg/m3	--	--	Skin total hydrocarbon
Naphthalene	ACGIH	--	10 ppm	--	--	Skin
Naphthalene	ACGIH	Vapor	10 ppm	15 ppm	--	A4 Skin
Naphthalene	OSHA Z-1	--	50 mg/m3	--	--	--

Consult local authorities for appropriate values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Varies depending on specification

Physical State: Liquid

Odor: Petroleum odor

Odor Threshold: No data available

pH: Not Applicable

Vapor Pressure: 0.04 kPa (Approximate) @ 40 °C (104 °F)

Relative Vapor Density: >1

Initial Boiling Point: 175.6°C (348°F) - 370°C (698°F)

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: Not Applicable

Melting Point: Not Applicable

Specific Gravity: 0.80 - 0.88 @ 15.6°C (60.1°F) (Typical)

Particle Characteristics: Not applicable

Density: No data available

Kinematic Viscosity: 1.9 cSt - 4.1 cSt @ 40°C (104°F)

Evaporation Rate: No data available

Decomposition temperature: No data available

Partition coefficient n-octanol/water (logarithmic value): No data available

FLAMMABLE PROPERTIES:

Flammability (solid, gas): No Data Available

Flashpoint: (Pensky-Martens Closed Cup) 52 °C (125 °F) (Minimum)

Autoignition: 257 °C (494 °F)

Flammability (Explosive) Limits (% by volume in air): Lower: 0.6 Upper: 4.7

SECTION 10 STABILITY AND REACTIVITY

Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: Avoid contact with heat, sparks, fire and oxidizing agents

Possibility of Hazardous Reactions: Hazardous polymerization will not occur. May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Incompatibility With Other Materials: Not applicable

Hazardous Decomposition Products: None known (None expected)

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Serious Eye Damage/Irritation: The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Corrosion/Irritation: This material causes skin irritation. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Sensitization: The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Dermal Toxicity: The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: This material is harmful if inhaled. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: This material may cause cancer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components. Whole diesel engine exhaust has been classified as a Group 1 carcinogen (probably carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Reproductive Toxicity: The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Single Exposure: This material may cause drowsiness or dizziness. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Repeated Exposure: This material may cause damage to organs through prolonged or repeated exposure. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Aspiration Hazard: This material is considered an aspiration hazard based on the kinematic viscosity of the material.

ADDITIONAL TOXICOLOGY INFORMATION:

The National Institute of Occupational Safety and Health (NIOSH) has recommended that whole diesel exhaust be regarded as potentially causing cancer. This recommendation was based on test results showing increased lung cancer in laboratory animals exposed to whole diesel exhaust.

This product contains gas oils.

CONCAWE (product dossier 95/107) has summarized current health, safety and environmental data available for a number of gas oils, typically hydrodesulfurized middle distillates, CAS 64742-80-9, straight-run middle distillates, CAS 64741-44-2, and/or light cat-cracked distillate CAS 64741-59-9.

CARCINOGENICITY: All materials tested have caused the development of skin tumors in mice, but all featured severe skin irritation and sometimes a long latency period before tumors developed. Straight-run and cracked gas oil samples were studied to determine the influence of dermal irritation on the carcinogenic activity of middle distillates. At non-irritant doses the straight-run gas oil was not carcinogenic, but at irritant doses, weak activity was demonstrated. Cracked gas oils, when diluted with mineral oil, demonstrated carcinogenic activity irrespective of the occurrence of skin irritation. Gas oils were tested on male mice to study tumor initiating/promoting activity. The results demonstrated that while a straight-run gas oil sample was neither an initiator or promotor, a blend of straight-run and FCC stock was both a tumor initiator and a promoter.

GENOTOXICITY: Hydrotreated & hydrodesulfurized gas oils range in activity from inactive to weakly positive in in-vitro bacterial mutagenicity assays. Mouse lymphoma assays on straight-run gas oils without subsequent hydrodesulphurization gave positive results in the presence of S9 metabolic activation. In-vivo bone marrow cytogenetics and sister chromatic exchange assay exhibited no activity for straight-run components with or without hydrodesulphurization. Thermally or catalytically cracked gas oils tested with in-vitro bacterial mutagenicity assays in the presence of S9 metabolic activation were shown to be mutagenic. In-vitro sister chromatic exchange assays on cracked gas oil gave equivocal results both with and without S9 metabolic activation. In-vivo bone marrow cytogenetics assay was inactive for two cracked gas oil samples. Three hydrocracked gas oils were tested with in-vitro bacterial mutagenicity assays with S9, and one of the three gave positive results. Twelve distillate fuel samples were tested with in-vitro bacterial mutagenicity assays & with S9 metabolic activation and showed negative to weakly positive results. In one series, activity was shown to be related to the PCA content of samples tested. Two in-vivo studies were also conducted. A mouse dominant lethal assay was negative for a sample of diesel fuel. In the other study, 9 samples of No 2 heating oil containing 50% cracked stocks caused a slight increase in the number of chromosomal aberrations in bone marrow cytogenetics assays. **DEVELOPMENTAL TOXICITY:** Diesel fuel vapor did not cause fetotoxic or teratogenic effects when pregnant rats were exposed on days 6-15 of pregnancy. Gas oils were applied to the skin of pregnant rats daily on days 0-19 of gestation. All but one (coker light gas oil) caused fetotoxicity (increased resorptions, reduced litter weight, reduced litter size) at dose levels that were also maternally toxic.

This product contains naphthalene.

GENERAL TOXICITY: Exposure to naphthalene has been reported to cause methemoglobinemia and/or hemolytic anemia, especially in humans deficient in the enzyme glucose-6-phosphate dehydrogenase.

Laboratory animals given repeated oral doses of naphthalene have developed cataracts.

REPRODUCTIVE TOXICITY AND BIRTH DEFECTS: Naphthalene did not cause birth defects when administered orally to rabbits, rats, and mice during pregnancy, but slightly reduced litter size in mice at dose levels that were lethal to the pregnant females. Naphthalene has been reported to cross the human placenta. **GENETIC TOXICITY:** Naphthalene caused chromosome aberrations and sister chromatid exchanges in Chinese hamster ovary cells, but was not a mutagen in several other in-vitro tests.

CARCINOGENICITY: In a study conducted by the National Toxicology Program (NTP), mice exposed to 10 or 30 ppm of naphthalene by inhalation daily for two years had chronic inflammation of the nose and lungs and increased incidences of metaplasia in those tissues. The incidence of benign lung tumors (alveolar/bronchiolar adenomas) was significantly increased in the high-dose female group but not in the male groups. In another two-year inhalation study conducted by NTP, exposure of rats to 10, 30, and 60 ppm naphthalene caused increases in the incidences of a variety of nonneoplastic lesions in the nose. Increases in nasal tumors were seen in both sexes, including olfactory neuroblastomas in females at 60 ppm and adenomas of the respiratory epithelium in males at all exposure levels. The relevance of these effects to humans has not been established. No carcinogenic effect was reported in a 2-year feeding study in rats receiving naphthalene at 41 mg/kg/day.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. A series of studies on the acute toxicity of 4 diesel fuel samples were conducted by one laboratory using water accommodated fractions. The range of effective (EC50) or lethal concentrations (LC50) expressed as loading rates were:

48 hour(s) EC50: 20-210 mg/l (Daphnia magna)

96 hour(s) LC50: 21-210 mg/l (Salmo gairdneri)

72 hour(s) EC50: 2.6-25 mg/l (Selenastrum capricornutum)

MOBILITY

No data available.

PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. On release to the environment the lighter components of diesel fuel will generally evaporate but depending on local environmental conditions (temperature, wind, mixing or wave action, soil type, etc.) the remainder may become dispersed in the water column or absorbed to soil or sediment. Diesel fuel would not be expected to be readily biodegradable. In a modified Strum test (OECD method 301B) approximately 40% biodegradation was recorded over 28 days. However, it has been shown that most hydrocarbon components of diesel fuel are degraded in soil in the presence of oxygen. Under anaerobic conditions, such as in anoxic sediments, rates of biodegradation are negligible.

The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Partition coefficient n-octanol/water (logarithmic value): No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >= 23 deg C but <= 60 deg C: UN1202, GAS OIL, 3, III; OPTIONAL DISCLOSURE: UN1202, GAS OIL, 3, III, MARINE POLLUTANT (DIESEL FUEL) Optional disclosure per 49 CFR when Flash Point (PM Closed Cup) >= 38 deg C < 93 deg C per 49 173.150 (f): UN1202, GAS OIL, COMBUSTIBLE LIQUID, III; NON-BULK PACKAGES ARE EXEMPTED FROM THE PROVISIONS OF 49 CFR IN USA JURISDICTIONS Optional disclosure as a GHS Environmental Hazard/Marine Pollutant when Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

IMO/IMDG Shipping Description: For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >= 23 deg C, <= 60 deg C: UN1202, GAS OIL, 3, III, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (DIESEL FUEL); OPTIONAL DISCLOSURE: UN1268, PETROLEUM DISTILLATES, N.O.S. (DIESEL FUEL), 3, III, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (DIESEL FUEL) For packages with a Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

ICAO/IATA Shipping Description: For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >= 23 deg C, <= 60 deg C: UN1202, GAS OIL, 3, III For packages with a Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Not applicable

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:

Acute toxicity (any route of exposure)

Aspiration Hazard

Carcinogenicity

Flammable (gases, aerosols, liquids, or solids)

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	05=MA RTK
01-2A=IARC Group 2A	06=NJ RTK
01-2B=IARC Group 2B	07=PA RTK
02=NTP Carcinogen	08-1=TSCA 5(e)
03=EPCRA 313	08-2=TSCA 12(b)
04=CA Proposition 65	

The following components of this material are found on the regulatory lists indicated.

Naphthalene	01-2B, 02, 03, 04, 05, 06, 07
Total PAC	03 4.81E-05 %weight

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AIIIC (Australia), DSL (Canada), IECSC (China), NZIoC (New Zealand), TCSI (Taiwan), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: EINECS (European Union), ENCS (Japan), KECI (Korea), PICCS (Philippines).

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: DIESEL FUEL

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 2 Flammability: 2 Reactivity: 0

HMIS RATINGS: Health: 2* Flammability: 2 Reactivity: 0
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the American Coatings Association (ACA) (for HMIS ratings).

REVISION STATEMENT:

SECTION 01 - Health Emergency information was modified.

SECTION 15 - Regulatory Information information was added.

SECTION 15 - Regulatory Information information was modified.

Revision Date: September 17, 2025

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	PNOS - Particles Not Otherwise Specified

Prepared according to the 29 CFR 1910.1200 (2024) by Chevron.

The information in this SDS is based on the knowledge, information, and belief of Chevron and its affiliates as of the publication date. It is not a quality specification, and no warranty, express or implied, is given. We assume no responsibility or liability for the results of using this material. The information presented here pertains only to the listed product. Since conditions of use are beyond our control, it is the user's responsibility to determine the conditions for safe use of this product and assess its suitability for their application. Users should seek additional guidance if necessary.



Safety Data Sheet

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System

Section 1 - Chemical Product and Company Identification

Product Name: Glass Cleaner 10:1

Distributor: AP Formulators 1015 Georgia St. South Houston, TX 77587 (888) 783-7627

Product Use

Cleaning Compound

Emergency Telephone: CHEMTREC 1-800-424-9300

Section 2 - Hazards Identification

GHS HAZARD

Hazard Classes

Skin irritation

Eye irritation

Hazard Categories

Category 2

Category 2B

Signal Word: Warning



Pictograms:

Hazard Statements

PHYSICAL HAZARDS:

None

HEALTH HAZARDS:

H315 Causes skin irritation

H320 Causes eye irritation

ENVIRONMENTAL HAZARDS:

None

PRECAUTIONARY STATEMENTS:

P261: Avoid breathing vapor

P280: Wear protective gloves and eye protection

P301 +310+ P331: IF SWALLOWED: USA Immediately call the National POISON CENTER at **800-222-1222**.

DO NOT induce vomiting

RESPONSE STATEMENTS:

P303+P361+353: IF ON SKIN, Take off immediately all contaminated clothing. Rinse skin with water/shower

Glass Cleaner 10:1

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System

P304+340: IF INHALED, Remove to fresh air and keep comfortable for breathing. If not breathing give artificial respiration. DO NOT use mouth to mouth resuscitation without proper protection

P305+P351: IF IN EYES rinse cautiously with water for at least 15 minutes

P306+P361: IF ON CLOTHING, Take off contaminated clothing

P376: Stop leaks if safe to do so

STORAGE STATEMENTS:

P403 + P233: Store in a well-ventilated place, Keep container tightly closed when not in use

DISPOSAL STATEMENTS:

P501: Dispose of content and/ container in accordance with local, regional, national regulations

Section 3 - Composition / Information on Ingredients

Chemical Names	CAS #.	Concentration%	Other Identifiers
Surfactant Blend	68131-40-8	>1% <45%	None
Ethylene Glycol Monobutyl Ether	111-76-2	<1%	2-butoxyethanol
Water	7732-18-5	10%-20%	H2O

Section 4 - First Aid Measures

Eye: Contact with the eyes can cause irritation. Symptoms may include discomfort or pain and redness. Severe overexposure can result in swelling of the conjunctiva along with tissue damage.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Prolonged and repeated liquid contact can cause defatting and drying of the skin and can lead to irritation and/or dermatitis.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

Ingestion: Liquid ingestion can cause inebriation, headache, gastrointestinal pain, nausea, and vomiting leading to central nervous system depression. Aspiration of liquid into the lungs must be avoided as even small quantities in the lungs can produce chemical pneumonia, pulmonary edema and even death.

Ingestion: Do NOT induce vomiting. Get medical aid immediately.

Inhalation: Prolonged breathing of high vapor concentrations can produce headache, dizziness, nausea, and impaired vision. Excessive overexposure can cause central nervous system depression, loss of consciousness, liver damage and death resulting from respiratory failure.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult and **IF TRAINED**, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation without protection.

After first aid, get appropriate paramedic, or community medical support.

Note to Physicians: The severity of outcome following ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested. Therefore, there is a need for rapid treatment of any ingestion exposure.

Glass Cleaner 10:1

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System

Section 5 - Fire-Fighting Measures

Flammable Properties: Not flammable

Suitable Extinguishing Media: Carbon dioxide, dry chemical powder or appropriate foam. Use water to keep non-leaking, fire-exposed containers cool.

Precautions for Firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Substance is noncombustible. Contact with metals may evolve flammable hydrogen gas.

Section 6 - Accidental Release Measures

Personal Precautions: Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Increase ventilation to area or move container to a well-ventilated and secure area. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Before entry, especially into confined areas, check atmosphere with an appropriate monitor.

Methods for Containment and Clean-up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating vapor conditions. Cover with sand, dry lime or soda ash and place in a closed container for disposal. Provide ventilation. Evacuate unnecessary personnel.

Other Information: Report spills to local health, safety and environmental authorities, as required.

Section 7 - Handling and Storage

Handling Precautions

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Do not breathe dust minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing

Storage: Store in a cool, dry, well-ventilated area, out of direct sunlight. Keep quantities stored as small as possible. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Section 8 - Exposure Controls / Personal Protection

Chemical Names	ACGIH- TLV	OSHA - PEL
Ethylene Glycol Monobutyl Ether	25 ppm	*50 ppm
Surfactant Blend	Not Established	Not Established

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value.

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

NOTE: TWA Means "TWA is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded."

C Means Ceiling Limit

*Listed on the OSHA Z1 Table

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below TLV/PELs Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Contaminated Equipment: Separate contaminated work clothes from street clothes and launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Glass Cleaner 10:1

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System

Personal protective equipment

Respiratory Protection

MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for Given extreme working conditions, level of airborne contamination, and presence of sufficient oxygen. Respirator is needed only in areas with no air ventilation. Example would be working in a sealed tank.

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use. Select gloves tested to the **ANSI/ISEA 105-2011**

Full contact: Nitrile rubber

Splash contact: Nitrile rubber

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

Skin and body protection

Impervious clothing

Protective Clothing Pictograms



Splash Goggles



Gloves



Protective Apron



Vapor Respirator

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Blue

Odor: Neutral

Vapor Pressure: No information found

Vapor Density (Air=1): No information found

Molecular Weight: No information found

Specific Gravity (H₂O=1, at @60°F 4 °C): 1.0

pH: None

Water Solubility: Complete

Boiling Point: Not applicable

Freezing/Melting Point: Not applicable

Viscosity: Not available

Flash Point: 212 °F (100°C)

Auto ignition Temperature: Not applicable

LEL: Not applicable

UEL: Not applicable

Section 10 - Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Polymerization: Hazardous polymerization has not been reported.

Chemical Incompatibilities: Oxidizing agents, Acid anhydrides, Aluminum, Halogenated compounds, Acids

Conditions to Avoid: Incompatibles.

Hazardous Decomposition Products: No data available

Glass Cleaner 10:1

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System

Section 11- Toxicological Information

Product Name	Results	Species	Dose	Exposure
Ethylene Glycol Monobutyl Ether	Oral LC50	Rat	470 mg/kg	Not listed
Ethylene Glycol Monobutyl Ether	Dermal LC50	Rat	307 mg/kg	Not listed
Ethylene Glycol Monobutyl Ether	Inhalation LC50	Rat	450ppm	4 hours
Surfactant Blend	Oral LC50	Rat	Not listed	Not listed
Dimethylcarbinol	Oral LC50	Rat	5045 mg/kg	Not listed

Routes: Inhalation, Ingestion, skin and/or eye contact.

Target Organs: Eyes, skin, mucous membranes

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed

Skin Causes skin irritation

Eyes Causes eye irritation

Teratogenicity/Embryotoxicity: Not harmful the unborn child

Reproductive Toxicity: Not a reproductive hazard

Mutagenicity: Not a mutagen

Signs and Symptoms of Exposure: Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce irritation. Inhalation of the spray mist may produce irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Carcinogenicity:

Chemical Name	IARC	ACGIH	NTP	OSHA
Ethylene Glycol Monobutyl Ether	Not listed	Not listed	Not listed	Not listed
Surfactant Blend	Not listed	Not listed	Not listed	Not listed

Key to Abbreviations

IARC = International Agency for Research on Cancer.

ACGIH= American Conference of Governmental Industrial Hygienists

NTP = National Toxicology Program

Glass Cleaner 10:1

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System

Section 12 - Ecological Information

Product Name	Results	Species	Exposure
Ethylene Glycol Monobutyl Ether	LC50 220 mg/l	Fish	96 hours
Ethylene Glycol Monobutyl Ether	EC50 1815 mg/l.	Daphnia	24 hours
Surfactant Blend	Not listed	Not listed	Not listed

Toxicity An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Mobility in soil: No data available for this product

Persistence/degradability: No data available for this product

Bioaccumulation: No data available for this product

PBT and vPvB assessment: No data available for this product.

Section 13 - Disposal Considerations

Disposal: DO NOT REUSE EMPTY CONTAINER! Container with residues should be considered to be hazardous wastes. Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulation

Section 14 - Transport Information

US Transport Information

Regulatory Information	UN #	Proper Shipping Name	Hazard Class	PG	Label	Additional Information
DOT Classification		Not Regulated				

Section 15 - Regulatory Information

US Regulations:

TSCA: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

CERCLA Hazardous Substances and corresponding RQs: None

SARA Community Right-to-Know Program: None

Clean Water Act: none

Clean Air Act: none

OSHA: All ingredients are listed in 1910.1200

State Regulations

California prop. 65: None

Chemicals on the following State Right to Know Lists:

Massachusetts: All components of this product are on the Massachusetts Inventory or are exempt from Inventory requirements

New Jersey All components of this product are on the New Jersey inventory or are exempt from Inventory requirements

Glass Cleaner 10:1

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System

Pennsylvania: All components of this product are on the Pennsylvania Inventory or are exempt from Inventory requirements

Section 16 - Other Information

Disclaimer: The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER NO responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above is furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.

References: CHEMpendium data base of Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller on Line, European Chemical Agency Data Base and MSDS and SDS of chemicals in this mixture.

SDS Preparation Date: May 15, 2015

SDS Revisions:

Prepared by
AP Formulators Inc
1015 Georgia St
South Houston, TX 77587
888-783-SOAP

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless	Vapor Density: _(air=1)	Not determined
Physical State:	Liquid	Upper Explosion Limit:	Not determined
Odor:	Acidic	Lower Explosion Limit:	Not determined
PH:	<1	Auto Ignition Temp:	No data available
Freezing / Melting Point:	No data available	Density:	Not determined
Boiling Point:	No data available	Specific Gravity:	1.11 @ 25°C
Flash Point:	Does not flash	Water Solubility:	Complete (hot and cold)
Evaporation Rate: _(n-Water=1)	1	Thermal Decomposition:	No data available
Vapor Pressure:	Not determined	Viscosity:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	Stable.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	No decomposition if stored and applied as directed.
Conditions to Avoid:	Heat, flames and sparks.
Incompatible Materials:	Oxidizing agents, strong alkalis.
Hazardous Decomposition Products:	May emit toxic fumes under fire conditions. Hydrogen Fluoride. Phosphorus compounds, Carbon Monoxide, Carbon Dioxide.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Aggravated Medical Condition:	None known.
Symptoms of Overexposure:	Effects are immediate and delayed. Symptoms include blistering, irritation, burns and pain. Effects are dependent on exposure (dose, concentration, contact time). Symptoms may include central nervous system depression resulting in headache, nausea and/or dizziness.

ACUTE EFFECTS

Eye Contact:	May cause irreversible eye damage.
Skin Contact:	Causes skin burns. Harmful if absorbed through the skin. Contact results in immediate skin absorption which may cause Hypocalcemia (Calcium loss). This effect may be delayed for several hours after exposure. Severe over-exposure by absorption can result in death.
Inhalation:	Irritation to nose and throat, may cause bronchitis, pulmonary edema, or death.
Ingestion:	Throat irritation, severe gastrointestinal burns that may cause death.
Target Organs:	Eyes, skin, respiratory system, and bones.
Acute Toxicity:	Oral LC ₅₀ (Rat) (1 Hour) = 1276 ppm Dermal LC _{L0} (Rabbit) (7 Hour) = 313 ppm

12. ECOLOGICAL INFORMATION

Toxicity: Significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Persistence and Degradability: Not biodegradable.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Collect and reclaim or dispose in sealed containers at a properly licensed waste disposal site. Do not allow this material to drain into sewers / water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used containers. Dispose of contents and container in accordance with local / regional / national or international regulations.

United States -**RCRA Toxic Hazardous Waste "U" List:**

Ingredient	CAS No.	Status	Reference No.
Hydrogen Fluoride, Hydrofluoric Acid	7664-39-3	Listed	U134

14. TRANSPORT INFORMATION

Transportation Regulation: DOT 49 CFR (USA)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Transportation Regulation: IMDG (Vessel)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Transportation Regulation: IATA (Cargo Air)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Transportation Regulation: IATA (Passenger Air)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Transportation Regulation: TDG (Canada)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Reportable Quantity: See CERCLA reportable quantity in next section.

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION

TSCA List: No substances are subject to a Significant New Rule or to TSCA 12(b) export notification.

EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT**CERCLA Reportable Quantity:**

Component	CAS No.	Component RQ (LBS)	Calculated Product RQ
Hydrogen Fluoride	7664-39-3	100	1000
Hydrogen Chloride	7647-01-0	5000	*
Phosphoric Acid	7664-38-2	5000	*

* Calculated RQ exceeds reasonably attainable upper limit

SARA 302:

The following component is subject to reporting levels per SARA Title III, Section 302:

Hydrogen Fluoride: 6.8041%

SARA 304:

Component	CAS No.	Component RQ (LBS)	Calculated Product RQ
Hydrogen Fluoride	7664-39-3	100	1000

SARA 311/312 Hazards:

Acute toxicity (any route of exposure). Skin corrosion or irritation. Serious eye damage or eye irritation

SARA 313:

The following component is subject to reporting levels per SARA Title III, Section 313:

Hydrogen Fluoride: 6.8041%

Clean Water Act (CWA) 311:

Hydrogen Fluoride, Hydrogen Chloride, Phosphoric Acid

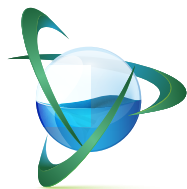
Clean Air Act (CAA) 112(b) Hazardous Air Pollutants (HAPs):

Hydrogen Fluoride

16. OTHER INFORMATION

MANUFACTURERS DISCLAIMER:

Information given herein is offered in good faith as accurate, but without guarantee, and represents the best information currently available to us; much of which comes from the manufacturer or supplier of components of this product. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product and its disposal are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Vision Chemical Systems Inc., makes no warranty, expressed or implied regarding the accuracy of the data or for the use of the product. Furthermore, Vision Chemical Systems Inc. expressly disclaims liability for loss, damage, or expense arising from or in anyway connected to the handling, storage, use or disposal of this product. Health and safety precautions in this data sheet may not be adequate for all individuals and product uses. It is the users obligation to ensure that this SDS is the most current SDS available for the product; to evaluate the information contained in this sheet in connection to the uses to which the product is to be put in the work place, and to use the product safely in accordance with all applicable laws and regulations. If there are any questions regarding the information contained in this sheet or its applicability for a particular use, the user is instructed to telephone Vision Chemical Systems Inc. at 1-888-VCS-4-YOU.



VISION
CHEMICAL SYSTEMS

PRODUCT: H.D. DEGREASER ST
ISSUE DATE: 03/14/19
SUPERSEDES: 11/7/09
Revision Number: R-1

24 HOUR EMERGENCY TELEPHONE NUMBER:
INFOTRAC (1-800-535-5053) All Calls Recorded

SAFETY DATA SHEET

HMIS

Health	1
Fire Hazard	0
Reactivity	0
Personal Protection	X



NFPA 704 DESIGNATION

HAZARDS RATING KEY:

4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME:	H.D. DEGREASER ST™	MSDS LISTED FOR CONCENTRATES
GENERAL USE:	General purpose degreaser / Cleaner	
PRODUCT FORMULATION NAME:	MIXTURE	MOLECULAR FORMULA: N/A
MANUFACTURER:	VISION CHEMICAL SYSTEMS INC. 16401 East 33rd Drive, Suite 30 Aurora, CO 80011	SYNONYM(s): NONE CAS NUMBER: N/A Phone 888-VCS-4-YOU (888-827-4968) Fax 888-2-FAX-VCS (888-232-9827)

2. COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	OSHA PEL	TLV	% (BY WEIGHT)
Ethylene Glycol Monobutyl Ether	111-76-2	50 ppm/skin	25 ppm/skin	<10
Proprietary Detergent Blend - Non Hazardous				<95

3. HAZARDS IDENTIFICATION

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use so long as prescribed safety precautions are practiced.

ACUTE EFFECTS OF OVER EXPOSURE:

SKIN: Hazardous in case of skin contact (irritant, permeator). Prolonged or repeated contact may dry skin and cause irritation.

EYES: Hazardous in case of eye contact (irritant). Causes severe eye irritation. Liquid in eye may cause irritation with possible damage if not rinsed immediately. Inflammation of the eye is characterized by redness, watering, and itching.

INHALATION: Hazardous in case of inhalation (lung irritant). Avoid breathing vapors or mists. Overexposure by inhalation may cause respiratory irritation.

INGESTION: Harmful if swallowed. Aspiration hazard if swallowed-can enter lungs and cause damage.

Persons with allergies or pre-existing skin conditions should avoid contact with this product.



CHRONIC EFFECTS OF OVER EXPOSURE: Inhalation and ingestion effects of this product have not been determined. A prediction as to whether these effects will be exhibited by the product as a whole is dependent on an evaluation of the products use and extent and duration of exposure.

None of the ingredients are listed as carcinogens by IARC, NTP, or OSHA.

PROPOSITION 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986) CHEMICAL(S) IN THIS PRODUCT IS/ARE:

This product does not contain any chemicals listed.

4. FIRST AID MEASURES

EYE CONTACT:	In case of contact, immediately rinse eyes with a gentle stream of clean water for at least 15 minutes, holding eyelids open. Get medical attention.
SKIN CONTACT:	Remove contaminated clothing and thoroughly rinse skin with plenty of water. If irritation occurs and persists, seek medical attention. Launder clothes before reuse.
INGESTION:	Aspiration hazard if swallowed. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs place head lower than hips to prevent aspiration. Seek medical attention immediately.
INHALATION:	If symptoms occur move affected person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: This product is not flammable or combustible.

Flammable Limits (in air, % by volume): Upper: N/A Lower: N/A **Autoignition Temperature:** N/A

GENERAL HAZARD: Evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes and smoke.

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: Not Available

FIRE FIGHTING INSTRUCTIONS / EXTINGUISHING MEDIA: Water spray, CO2 , Chemical-type foam.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Not available

HAZARDOUS COMBUSTION PRODUCTS: Not determined for this product.

FIRE FIGHTING EQUIPMENT: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

SENSITIVE TO STATIC DISCHARGE: NO

SENSITIVITY TO IMPACT: NO

6. ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Observe safety procedures in section 7 and 8 during clean up. Put on appropriate personal protective equipment (see section 8). Small spills can be wiped up. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal. Rinse area well with water.

WASTE DISPOSAL METHOD:

Waste must be disposed of in accordance with all federal, state, and local environmental control regulations.

COMMENTS: See Section 13 for disposal information and Section 15 for regulatory requirements.

7. HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place, away from incompatible materials (e.g. strong oxidizers). Keep from freezing, if frozen return to room temperature. Protect eyes, skin, and clothing from contact with product. Wear recommended protective equipment. Wash thoroughly after handling. Empty containers may be hazardous. Do not cut, puncture, or weld on or near empty containers.

KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL MEASURES: General mechanical room ventilation is sufficient for normal use of this product. If use generates heavy vapors, mists, or aerosols, use local mechanical exhaust ventilation capable of maintaining emissions in the work area below occupational exposure limits and/or a level of irritation to the eyes or respiratory tract.

PERSONAL PROTECTIVE EQUIPMENT(PPE):

RESPIRATOR: Not required for normal use of this product. Wear appropriate respirator when ventilation is inadequate.

EYES: Use tight fitting safety glasses or splash goggles.

CLOTHING & EQUIPMENT: Use of chemical resistant gloves and apron is strongly recommended, especially for prolonged contact. An eye wash station and safety shower should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Colorless	Bulk Density (pounds/ft ³):	N/D
Physical State:	Liquid	Vapor Pressure:	N/D
Odor:	Mild Detergent	Vapor Density (air=1):	N/D
Odor Threshold:	N/D	Evaporation Rate (n-Water=1):	Slower than water
Molecular Formula:	N/D	VOC Content:	N/A
Molecular Weight:	N/D	% Volatile	N/D
Boiling Point:	212 ° F	Solubility in H₂O:	Complete
Freezing/Melting Point:	35.9		
Specific Gravity:	1.01 @ 25° C		
Density:	N/D		

10. STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

CONDITIONS TO AVOID: Avoid excessive heat and flame.

INCOMPATIBLE MATERIAL: Avoid contact with strong oxidizing agents or anything that is not compatible with water.

HAZARDOUS DECOMPOSITION PRODUCTS: Not Determined.

SENSITIVITY TO MECHANICAL IMPACT: This product is NOT sensitive to mechanical impact.

SENSITIVITY TO STATIC DISCHARGE: This product NOT sensitive to static discharge.

11. TOXICOLOGICAL INFORMATION

Toxicity to animals:

Ethylene Glycol Monobutyl Ether:

ORAL (LD50): Acute: 1746 mg/kg [Rat], 1519 mg/kg [Mouse].

DERMAL (LD50): Acute: 435 mg/kg [Rabbit].

VAPOR (LC50): Acute: 700ppm 7 hour(s) [Mouse]. >633 ppm 1 hour(s) [Guinea pig]

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

The environmental fate of this product is expected to be: **Land:** Not determined **Water:** Not determined **Air:** Product is not expected to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of waste at an appropriate waste disposal facility in accordance with current applicable federal, state and local laws and regulations.

REGULATORY REQUIREMENTS: (See Section 15)

EMPTY CONTAINER: Containers should be triple rinsed before disposal. Dispose of in accordance with applicable local, state, and federal regulations.

Refer to Section 6, Accidental Release Measures for additional information.

14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: INDUSTRIAL CLEANERS N.O.I., LIQUID KEEP FROM FREEZING

DOT HAZARD CLASS: N/A

DOT PACKAGING GROUP: N/A

DOT I.D. NUMBER: N/A

DOT LABEL/PLACARD: N/A

VESSEL (IMO/IMDG): PROPER SHIPPING NAME: N/A

LABEL: Use Product Identifier, "Trade Name".

AIR (ICAO/IATA): PROPER SHIPPING NAME: N/A

LABEL: Use Product Identifier, "Trade Name".

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: Ethylene Glycol Monobutyl Ether: **TITLE III NOTES:** Not Applicable

STATE REGULATIONS: Consult State Authorities

CAA (CLEAN AIR ACT, USA): Ethylene Glycol Monobutyl Ether:

CLEAN WATER ACT / OIL POLLUTION ACT: No products were found.

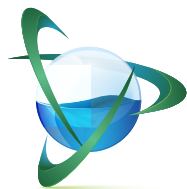
16. OTHER INFORMATION

MSDS distributed by: Vision Chemical Systems Inc. Phone: 1-888-VCS-4-YOU

Fax: 1-888-2-FAX-VCS

MANUFACTURERS DISCLAIMER:

Information given herein is offered in good faith as accurate, but without guarantee, and represents the best information currently available to us; much of which comes from the manufacturer or supplier of components of this product. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product and its disposal are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Vision Chemical Systems Inc., makes no warranty, expressed or implied regarding the accuracy of the data or for the use of the product. Furthermore, Vision Chemical Systems Inc. expressly disclaims liability for loss, damage, or expense arising from or in anyway connected to the handling, storage, use or disposal of this product. Health and safety precautions in this data sheet may not be adequate for all individuals and product uses. It is the users obligation to ensure that this MSDS is the most current MSDS available for the product; to evaluate the information contained in this sheet in connection to the uses to which the product is to be put in the work place, and to use the product safely in accordance with all applicable laws and regulations. If there are any questions regarding the information contained in this sheet or its applicability for a particular use, the user is instructed to telephone Vision Chemical Systems Inc. at 1-888-VCS-4-YOU.



VISION
CHEMICAL SYSTEMS

PRODUCT: H.D. DEGREASER ST
ISSUE DATE: 03/14/19
SUPERSEDES: 11/7/09
Revision Number: R-1

24 HOUR EMERGENCY TELEPHONE NUMBER:
INFOTRAC (1-800-535-5053) All Calls Recorded

SAFETY DATA SHEET

HMIS

Health	1
Fire Hazard	0
Reactivity	0
Personal Protection	X



NFPA 704 DESIGNATION

HAZARDS RATING KEY:

4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME:	H.D. DEGREASER ST™	MSDS LISTED FOR CONCENTRATES
GENERAL USE:	General purpose degreaser / Cleaner	
PRODUCT FORMULATION NAME:	MIXTURE	MOLECULAR FORMULA: N/A
MANUFACTURER:	VISION CHEMICAL SYSTEMS INC. 16401 East 33rd Drive, Suite 30 Aurora, CO 80011	SYNONYM(s): NONE CAS NUMBER: N/A Phone 888-VCS-4-YOU (888-827-4968) Fax 888-2-FAX-VCS (888-232-9827)

2. COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	OSHA PEL	TLV	% (BY WEIGHT)
Ethylene Glycol Monobutyl Ether	111-76-2	50 ppm/skin	25 ppm/skin	<10
Proprietary Detergent Blend - Non Hazardous				<95

3. HAZARDS IDENTIFICATION

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use so long as prescribed safety precautions are practiced.

ACUTE EFFECTS OF OVER EXPOSURE:

SKIN: Hazardous in case of skin contact (irritant, permeator). Prolonged or repeated contact may dry skin and cause irritation.

EYES: Hazardous in case of eye contact (irritant). Causes severe eye irritation. Liquid in eye may cause irritation with possible damage if not rinsed immediately. Inflammation of the eye is characterized by redness, watering, and itching.

INHALATION: Hazardous in case of inhalation (lung irritant). Avoid breathing vapors or mists. Overexposure by inhalation may cause respiratory irritation.

INGESTION: Harmful if swallowed. Aspiration hazard if swallowed-can enter lungs and cause damage.

Persons with allergies or pre-existing skin conditions should avoid contact with this product.



CHRONIC EFFECTS OF OVER EXPOSURE: Inhalation and ingestion effects of this product have not been determined. A prediction as to whether these effects will be exhibited by the product as a whole is dependent on an evaluation of the products use and extent and duration of exposure.

None of the ingredients are listed as carcinogens by IARC, NTP, or OSHA.

PROPOSITION 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986) CHEMICAL(S) IN THIS PRODUCT IS/ARE:

This product does not contain any chemicals listed.

4. FIRST AID MEASURES

EYE CONTACT:	In case of contact, immediately rinse eyes with a gentle stream of clean water for at least 15 minutes, holding eyelids open. Get medical attention.
SKIN CONTACT:	Remove contaminated clothing and thoroughly rinse skin with plenty of water. If irritation occurs and persists, seek medical attention. Launder clothes before reuse.
INGESTION:	Aspiration hazard if swallowed. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs place head lower than hips to prevent aspiration. Seek medical attention immediately.
INHALATION:	If symptoms occur move affected person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: This product is not flammable or combustible.

Flammable Limits (in air, % by volume): Upper: N/A Lower: N/A **Autoignition Temperature:** N/A

GENERAL HAZARD: Evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes and smoke.

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: Not Available

FIRE FIGHTING INSTRUCTIONS / EXTINGUISHING MEDIA: Water spray, CO₂, Chemical-type foam.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Not available

HAZARDOUS COMBUSTION PRODUCTS: Not determined for this product.

FIRE FIGHTING EQUIPMENT: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

SENSITIVE TO STATIC DISCHARGE: NO

SENSITIVITY TO IMPACT: NO

6. ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Observe safety procedures in section 7 and 8 during clean up. Put on appropriate personal protective equipment (see section 8). Small spills can be wiped up. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal. Rinse area well with water.

WASTE DISPOSAL METHOD:

Waste must be disposed of in accordance with all federal, state, and local environmental control regulations.

COMMENTS: See Section 13 for disposal information and Section 15 for regulatory requirements.

7. HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place, away from incompatible materials (e.g. strong oxidizers). Keep from freezing, if frozen return to room temperature. Protect eyes, skin, and clothing from contact with product. Wear recommended protective equipment. Wash thoroughly after handling. Empty containers may be hazardous. Do not cut, puncture, or weld on or near empty containers.

KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL MEASURES: General mechanical room ventilation is sufficient for normal use of this product. If use generates heavy vapors, mists, or aerosols, use local mechanical exhaust ventilation capable of maintaining emissions in the work area below occupational exposure limits and/or a level of irritation to the eyes or respiratory tract.

PERSONAL PROTECTIVE EQUIPMENT(PPE):

RESPIRATOR: Not required for normal use of this product. Wear appropriate respirator when ventilation is inadequate.

EYES: Use tight fitting safety glasses or splash goggles.

CLOTHING & EQUIPMENT: Use of chemical resistant gloves and apron is strongly recommended, especially for prolonged contact. An eye wash station and safety shower should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Colorless	Bulk Density (pounds/ft ³):	N/D
Physical State:	Liquid	Vapor Pressure:	N/D
Odor:	Mild Detergent	Vapor Density (air=1):	N/D
Odor Threshold:	N/D	Evaporation Rate (n-Water=1):	Slower than water
Molecular Formula:	N/D	VOC Content:	N/A
Molecular Weight:	N/D	% Volatile	N/D
Boiling Point:	212 ° F	Solubility in H₂O:	Complete
Freezing/Melting Point:	35.9		
Specific Gravity:	1.01 @ 25° C		
Density:	N/D		

10. STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

CONDITIONS TO AVOID: Avoid excessive heat and flame.

INCOMPATIBLE MATERIAL: Avoid contact with strong oxidizing agents or anything that is not compatible with water.

HAZARDOUS DECOMPOSITION PRODUCTS: Not Determined.

SENSITIVITY TO MECHANICAL IMPACT: This product is NOT sensitive to mechanical impact.

SENSITIVITY TO STATIC DISCHARGE: This product NOT sensitive to static discharge.

11. TOXICOLOGICAL INFORMATION

Toxicity to animals:

Ethylene Glycol Monobutyl Ether:

ORAL (LD50): Acute: 1746 mg/kg [Rat], 1519 mg/kg [Mouse].

DERMAL (LD50): Acute: 435 mg/kg [Rabbit].

VAPOR (LC50): Acute: 700ppm 7 hour(s) [Mouse]. >633 ppm 1 hour(s) [Guinea pig]

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

The environmental fate of this product is expected to be: **Land:** Not determined **Water:** Not determined **Air:** Product is not expected to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of waste at an appropriate waste disposal facility in accordance with current applicable federal, state and local laws and regulations.

REGULATORY REQUIREMENTS: (See Section 15)

EMPTY CONTAINER: Containers should be triple rinsed before disposal. Dispose of in accordance with applicable local, state, and federal regulations.

Refer to Section 6, Accidental Release Measures for additional information.

14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: INDUSTRIAL CLEANERS N.O.I., LIQUID KEEP FROM FREEZING

DOT HAZARD CLASS: N/A

DOT PACKAGING GROUP: N/A

DOT I.D. NUMBER: N/A

DOT LABEL/PLACARD: N/A

VESSEL (IMO/IMDG): PROPER SHIPPING NAME: N/A

LABEL: Use Product Identifier, "Trade Name".

AIR (ICAO/IATA): PROPER SHIPPING NAME: N/A

LABEL: Use Product Identifier, "Trade Name".

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: Ethylene Glycol Monobutyl Ether: **TITLE III NOTES:** Not Applicable

STATE REGULATIONS: Consult State Authorities

CAA (CLEAN AIR ACT, USA): Ethylene Glycol Monobutyl Ether:

CLEAN WATER ACT / OIL POLLUTION ACT: No products were found.

16. OTHER INFORMATION

MSDS distributed by: Vision Chemical Systems Inc. Phone: 1-888-VCS-4-YOU

Fax: 1-888-2-FAX-VCS

MANUFACTURERS DISCLAIMER:

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Safety Data Sheet

1. IDENTIFICATION

Product identifier
Mixture identification:
Trade name: Ink Bottle, T5022
Recommended use of the chemical and restrictions on use
Recommended use: Ink for inkjet printing
Details of the supplier of the safety data sheet
Company: EPSON AMERICA Inc.
3840 Kilroy Airport Way
Long Beach, CA 90806
United States
Telephone : 562.276.1369
Emergency phone number
Telephone : 562.276.1369

2. HAZARD(S) IDENTIFICATION

Classification of the chemical
The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
Label elements
The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazard pictograms:
None
Hazard statements:
None
Precautionary statements:
None
Special Provisions:
None
Hazards not otherwise classified identified during the classification process:
None
Additional classification information
NFPA rating:



HMIS rating:



3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances
No
Mixtures
Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Safety Data Sheet

Qty	Name	Ident. Number	Classification
65% ~ 80%	Water	CAS: 7732-18-5 EC: 231-791-2	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
10% ~ 12.5 %	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	Index number: 603-183-00-0 CAS: 143-22-6 EC: 205-592-6 REACH No.: 01-21194751 07-38	 A.3/1 Eye Dam. 1 H318
10% ~ 12.5 %	Glycerol	CAS: 56-81-5 EC: 200-289-5	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
0.5% ~ 1%	Triethanol amine	CAS: 102-71-6 EC: 203-049-8	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed

Treatment:

None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: No data available

Oxidizing properties: No data available

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Safety Data Sheet

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Remove persons to safety.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature:

Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Glycerol - CAS: 56-81-5

- OEL Type: OSHA - LTE: 5 mg/m³

- OEL Type: OSHA - LTE: 15 mg/m³

DNEL Exposure Limit Values

No data available

PNEC Exposure Limit Values

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6

Target: Fresh Water - Value: 1.5 mg/l

Target: Freshwater sediments - Value: 5.77 mg/kg

Target: Marine water - Value: 0.15 mg/l

Target: Marine water sediments - Value: 0.13 mg/kg

Target: Microorganisms in sewage treatments - Value: 200 mg/l

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Not needed for normal use.

Safety Data Sheet

Thermal Hazards:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Cyan Liquid
Odour:	Slightly
Odour threshold:	No data available
pH:	8 ~ 9 at 20 °C
Melting point / freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Solid/gas flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Solubility in water:	Complete
Solubility in oil:	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	< 5 mPa·s at 20 °C
Miscibility:	No data available
Fat Solubility:	No data available
Conductivity:	No data available

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None
Conditions to avoid	Stable under normal conditions.
Incompatible materials	None in particular.
Hazardous decomposition products	None.

11. TOXICOLOGICAL INFORMATION

Toxicological information of the mixture:	
e) germ cell mutagenicity:	Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative
Toxicological information of the main substances found in the mixture:	
2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6	
a) acute toxicity:	Test: LD50 - Route: Dermal - Species: Rabbit = 3.54 ml/kg - Source: American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962.
	Test: LD50 - Route: Oral - Species: Rat = 5300 mg/kg - Source: Office of Toxic Substances Report. Vol. OTS,
Glycerol - CAS: 56-81-5	
a) acute toxicity:	

Safety Data Sheet

Test: LD50 - Route: Oral - Species: Guinea pig = 7750 mg/kg - Source: Journal of Industrial Hygiene and Toxicology. Vol. 23, Pg. 259, 1941

Test: LDLo - Route: Oral - Species: Human = 1428 mg/kg - Source: "Toxicology of Drugs and Chemicals," Deichmann, W.B., New York, Academic Press, Inc., 1969Vol. -, Pg. 288, 1969.

Triethanol amine - CAS: 102-71-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Guinea pig = 2200 mg/kg - Source: "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure," Izmerov, N.F., et al., Moscow, Centre of International Projects, GKNT, 1982Vol. -, Pg. 114, 1982.

Test: LD50 - Route: Oral - Species: Mouse = 5846 mg/kg - Source: Science Reports of the Research Institutes, Tohoku University, Series C: Medicine. Vol. 36(1-4), Pg. 10, 1989.

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

Triethanol amine - Group 3.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number

Not classified as dangerous in the meaning of transport regulations.

UN proper shipping name

No data available

Transport hazard class(es)

No data available

Packing group

No data available

Environmental hazards

No data available

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No data available

Special precautions

Safety Data Sheet

No data available

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

None.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: no substances listed.

Section 313 – Toxic chemical list: 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether.

CAA - Clean Air Act

CAA listed substances:

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether is listed in CAA Section 112, Section 112(b) - HON

Glycerol is listed in CAA Section 111.

CWA - Clean Water Act

CWA listed substances:

None.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

No substances listed.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether.

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H318 Causes serious eye damage.

Safety Data Sheet dated May 1, 2017, Revision: 1.0

Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

Safety Data Sheet

DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

2461 - LustraShield® Clear

SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** 2461 - LustraShield® Clear
- 1.2 Recommended use of the chemical and restrictions on use:**
Relevant uses: Chemical cleaning products
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
Cleaning Systems, Inc.
1997 American Blvd
54115 De Pere - United States
Phone.: 9203372175 - Fax: 9203379410
chemcompliance@cleaningsystemsinc.com
http://cleaningsystemsinc.com
- 1.4 Emergency phone number:** 1-800-424-9300 or 1-703-527-3887

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
29 CFR 1910.1200:
Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1B: Skin corrosion, Category 1B, H314
- 2.2 Label elements:**
29 CFR 1910.1200:
Danger
- 
- Hazard statements:**
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage
- Precautionary statements:**
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P264: Wash thoroughly after use
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310: Immediately call a poison center/doctor
- Substances that contribute to the classification**
Quaternary Ammonium Compounds; Quaternary Ammonium Compounds
- Acute Toxicity Estimate (ATE mix):**
9.65 % (oral), 20.13 % (dermal), 20.13 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity
- 2.3 Other hazards which do not result in classification:**
Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:**
Non-applicable
- 3.2 Mixtures:**

- CONTINUED ON NEXT PAGE -

2461 - LustraShield® Clear

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: Proprietary	Quaternary Ammonium Compounds Acute Tox. 4: H302; Skin Corr. 1B: H314 - Danger	5 - <10 %
CAS: 111-76-2	2-butoxyethanol Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning	5 - <10 %
CAS: 67-63-0	Propan-2-ol Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	<5 %
CAS: Proprietary	Quaternary Ammonium Compounds Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	<5 %
CAS: 127087-87-0	4-Nonylphenol, branched, ethoxylated Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	<5 %

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

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SECTION 5: FIRE-FIGHTING MEASURES (continued)

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

The characteristic of corrosivity per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D002 could apply. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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SECTION 7: HANDLING AND STORAGE (continued)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: -4 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	Environmental limits		
Propan-2-ol CAS: 67-63-0	8-hour TWA PEL	400 ppm	980 mg/m³
	Ceiling Values - TWA PEL		
Glycerol CAS: 56-81-5	8-hour TWA PEL		5 mg/m³
	Ceiling Values - TWA PEL		
2-butoxyethanol CAS: 111-76-2	8-hour TWA PEL	50 ppm	240 mg/m³
	Ceiling Values - TWA PEL		

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical protection gloves. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

D.- Ocular and facial protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F:	Liquid
Appearance:	Transparent
Color:	Yellowish
Odor:	Not available
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	216 °F
Vapour pressure at 68 °F:	2356 Pa
Vapour pressure at 122 °F:	93 (12.4 kPa)
Evaporation rate at 68 °F:	Non-applicable *

Product description:

Density at 68 °F:	994.7 kg/m³
Relative density at 68 °F:	0.995
Dynamic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 104 °F:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 68 °F:	Non-applicable *
Partition coefficient n-octanol/water 68 °F:	Non-applicable *
Solubility in water at 68 °F:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>199.4 °F)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	460 °F
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Explosive:	
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *
9.2 Other information:	
Surface tension at 68 °F:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
 - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
IARC: Propan-2-ol (3); 2-butoxyethanol (3)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Propan-2-ol CAS: 67-63-0	LD50 oral	5280 mg/kg	Rat
	LD50 dermal	12800 mg/kg	Rat
	LC50 inhalation	72.6 mg/L (4 h)	Rat
2-butoxyethanol CAS: 111-76-2	LD50 oral	1414 mg/kg	Rat
	LD50 dermal	1060 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (4 h)	Rat
Quaternary Ammonium Compounds CAS: Proprietary	LD50 oral	960 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Quaternary Ammonium Compounds CAS: Proprietary	LD50 oral	500 mg/kg (ATEi)	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
4-Nonylphenol, branched, ethoxylated CAS: 127087-87-0	LD50 oral	500 mg/kg (ATEi)	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	5758.36 mg/kg (Calculation method)	9.65 %
Dermal	16932.76 mg/kg (Calculation method)	20.13 %
Inhalation	175.72 mg/L (4 h) (Calculation method)	20.13 %

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Identification	Acute toxicity		Species	Genus
Quaternary Ammonium Compounds CAS: Proprietary	LC50	Non-applicable		
	EC50	Non-applicable		
	EC50	0.06 mg/L (72 h)	N/A	Algae
2-butoxyethanol CAS: 111-76-2	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Propan-2-ol CAS: 67-63-0	LC50	9640 mg/L (96 h)	Pimephales promelas	Fish
	EC50	13299 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
4-Nonylphenol, branched, ethoxylated CAS: 127087-87-0	LC50	84.7 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	23 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	19.5 mg/L (72 h)	Desmodesmus subspicatus	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Quaternary Ammonium Compounds CAS: Proprietary	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	82 %
2-butoxyethanol CAS: 111-76-2	BOD5	0.71 g O2/g	Concentration	100 mg/L
	COD	2.2 g O2/g	Period	14 days
	BOD5/COD	0.32	% Biodegradable	96 %
Propan-2-ol CAS: 67-63-0	BOD5	1.19 g O2/g	Concentration	100 mg/L
	COD	2.23 g O2/g	Period	14 days
	BOD5/COD	0.53	% Biodegradable	86 %
4-Nonylphenol, branched, ethoxylated CAS: 127087-87-0	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	81 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
2-butoxyethanol CAS: 111-76-2	BCF	3
	Pow Log	0.83
	Potential	Low
Propan-2-ol CAS: 67-63-0	BCF	3
	Pow Log	0.05
	Potential	Low

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
4-Nonylphenol, branched, ethoxylated CAS: 127087-87-0	BCF	8
	Pow Log	5.67
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2-butoxyethanol CAS: 111-76-2	Koc	8	Henry	1.621E-1 Pa·m³/mol
	Conclusion	Very High	Dry soil	No
	Surface tension	2.729E-2 N/m (77 °F)	Moist soil	Yes
Propan-2-ol CAS: 67-63-0	Koc	1.5	Henry	8.207E-1 Pa·m³/mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.24E-2 N/m (77 °F)	Moist soil	Yes
4-Nonylphenol, branched, ethoxylated CAS: 127087-87-0	Koc	427	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

- 14.1 UN number:** Non-applicable
- 14.2 UN proper shipping name:** Non-applicable
- 14.3 Transport hazard class(es):** Non-applicable
- Labels: Non-applicable
- 14.4 Packing group, if applicable:** Non-applicable
- 14.5 Environmental hazard:** No
- 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
- Physico-Chemical properties: see section 9
- 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

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SECTION 14: TRANSPORT INFORMATION (continued)

- | | |
|--|----------------|
| 14.1 UN number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group, if applicable: | Non-applicable |
| 14.5 Environmental hazard: | No |
| 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:

- | | |
|--|----------------|
| 14.1 UN number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group, if applicable: | Non-applicable |
| 14.5 Environmental hazard: | No |
| 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): 2-butoxyethanol ; Propan-2-ol
 California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable
 The Toxic Substances Control Act (TSCA) : Quaternary Ammonium Compounds ; 2-butoxyethanol ; Propan-2-ol ; Quaternary Ammonium Compounds
 Massachusetts RTK - Substance List: Propan-2-ol
 New Jersey Worker and Community Right-to-Know Act: 2-butoxyethanol ; Propan-2-ol
 New York RTK - Substance list: 2-butoxyethanol ; Propan-2-ol
 Pennsylvania Worker and Community Right-to-Know Law: 2-butoxyethanol ; Propan-2-ol
 CANADA-Domestic Substances List (DSL): Quaternary Ammonium Compounds ; 2-butoxyethanol ; Propan-2-ol ; Quaternary Ammonium Compounds
 CANADA-Non-Domestic Substances List (NDSL): Non-applicable
 NTP (National Toxicology Program): Non-applicable
 Minnesota - Hazardous substances ERTK: 2-butoxyethanol ; Propan-2-ol
 Rhode Island - Hazardous substances RTK: 2-butoxyethanol ; Propan-2-ol
 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
 Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

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SECTION 15: REGULATORY INFORMATION (continued)

The Toxic Substances Control Act (TSCA)
Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 2: H225 - Highly flammable liquid and vapour

Flam. Liq. 4: H227 - Combustible liquid

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Skin Irrit. 2: H315 - Causes skin irritation

STOT SE 3: H336 - May cause drowsiness or dizziness

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

SAFETY DATA SHEET

LYSOL® Power & Fresh Multi-Surface Cleaner - Fresh
LYSOL® Clean & Fresh Multi-Surface Cleaner - All Scents



HEALTH • HYGIENE • HOME

1. Product and company identification

Product name	: LYSOL® Power & Fresh Multi-Surface Cleaner - Fresh LYSOL® Clean & Fresh Multi-Surface Cleaner - All Scents
Distributed by	: Reckitt Benckiser LLC. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225 +1 973 404 2600 Reckitt Benckiser (Canada) Inc. 1680 Tech Avenue, Unit #2 Mississauga, Ontario L4W 5S9 CANADA Telephone: +1 905 283 7000
Emergency telephone number (Medical)	: 1-800-338-6167
Emergency telephone number (Transport)	: 1-800-424-9300 (U.S. & Canada) CHEMTREC Outside U.S. and Canada (North America), call Chemtrec:703-527-3887
Website:	: http://www.rbnainfo.com
Synonym	: Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner Sparkling Lemon & Sunflower scent Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner Peony Blossom & White Peach scent Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner Cherry Blossom & Pomegranate scent Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner Lavender & Orchid Essence scent Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner Cool Adirondack Air scent Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner Hawaii Sunset Essence scent Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner Waterfall Splash & Mineral Essence scent Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner Tangerine & Mango Essence scent Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner Cool Wave scen
Product use	: Multipurpose Cleaner

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

SDS # : D8262545 v5.0

Code # : D8262545_NA

SDS # : D8262545 v5.0

Date of issue : 27/11/2020

1/14

D8262545 v5.0

1. Product and company identification

Formulation # : e0066-198 A/B (8259408 v1.0) Sparkling Lemon & Sunflower; e0066-227 A/B (8259409 v1.0) Peony Blossom & White Peach/Cherry Blossom & Pomegranate; e0066-228 A/B (8259410 v1.0) Lavender & Orchid Essence; e0066-229 A/B (8259411 v1.0) Cool Adirondack Air; e066-230 A/B (8259412 v1.0) Hawaii Sunset Essence/ Tangerine & Mango Essence; e0066-231 A/B (8259413 v1.0) Waterfall Splash & Mineral Essence: e0066-276B (8284960v1.0) (Cool Wave)

EPA ID No. : 777-89

DIN # : 02245935

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Multipurpose Cleaner (Consumer use)

2. Hazards identification

Classification of the substance or mixture : SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2B

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : Causes skin and eye irritation.

Precautionary statements

General : Not applicable.

Prevention : Wear protective gloves. Wash thoroughly after handling.

Response : Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements : None known.

Hazards not otherwise classified : None known.

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3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Alcohols, C10-16, ethoxylated	1 - 5	68002-97-1
quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	1 - 5	68424-85-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

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4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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6. Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

Control

Occupational exposure limits

Not applicable.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

- Hand protection** : Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

9. Physical and chemical properties

Appearance

- Physical state** : Liquid. [Transparent]
- Color** : Yellow.
Violet. Dark purple. Green.
Orange.
Blue.

- Odor** : Fragrant.
- Odor threshold** : Not available.
- pH** : 8.5 to 9.5 [Conc. (% w/w): 100%]
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Closed cup: >93.3°C (>199.9°F)
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 1.002 to 1.01 g/ml @20degC
- Density** : 1.002 to 1.01 g/cm³ [25°C (77°F)]
- Solubility** : Easily soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.

Aerosol product

D8262545 v5.0

10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Alcohols, C10-16, ethoxylated quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner_D8262545 (NA)	LD50 Oral	Rat	1700 mg/kg	-
	LD50 Dermal	Rabbit	2848 mg/kg	-
	LD50 Dermal	Rabbit	3413 mg/kg	-
	LD50 Oral	Rat	344 mg/kg	-
	LD50 Oral	Rat	398 mg/kg	-
	LC50 Inhalation Vapor	Rat	>2.2 mg/l	14 days

Conclusion/Summary : Not classified. Harmful * Information is based on toxicity test result of the concentrate of a similar product.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Alcohols, C10-16, ethoxylated quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner_D8262545 (NA)	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Severe irritant	Rabbit	-	25 milligrams	-
	Eyes - Cornea opacity	Rat	2	72 hours	7 days
	Skin - Primary dermal irritation index (PDII)	Rat	0.8	-	-

Conclusion/Summary

Skin	: Slightly irritating to the skin. * Information is based on toxicity test result of the concentrate of a similar product.
Eyes	: Moderately irritating to eyes. * Information is based on toxicity test result of the concentrate of a similar product.
Respiratory	: Based on available data, the classification criteria are not met.

Sensitization

D8262545 v5.0

11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	skin	Guinea pig	Not sensitizing
Lysol® Brand Kills 99.9% of Viruses & Bacteria** Power & Fresh Multi-surface cleaner_D8262545 (NA)	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin : Non-sensitizer to skin. * Information is based on toxicity test result of the concentrate of a similar product.

Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	OECD 471 - Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473 - Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 476 - Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

Not available.

Conclusion/Summary : Based on available data, the classification criteria are not met.

Reproductive toxicity

Not available.

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Not available.

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

D8262545 v5.0

11. Toxicological information

Potential acute health effects

- Eye contact** : Causes eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- Conclusion/Summary** : Based on available data, the classification criteria are not met.
- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Alcohols, C10-16, ethoxylated quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	1700 344	N/A 2848	N/A N/A	N/A N/A	N/A N/A

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12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Acute EC50 0.016 mg/l	Daphnia	48 hours
	Acute LC50 64 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic EC10 0.009 mg/l	Algae	72 hours

Conclusion/Summary : Based on available data, the classification criteria are not met.

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

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14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Additional information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

15. Regulatory information

U.S. Federal regulations :
Clean Air Act Section 112 : Not listed
(b) Hazardous Air Pollutants (HAPs)
Clean Air Act Section 602 : Not listed
Class I Substances
Clean Air Act Section 602 : Not listed
Class II Substances
DEA List I Chemicals (Precursor Chemicals) : Not listed
DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2B

Composition/information on ingredients

D8262545 v5.0

15. Regulatory information

Name	%	Classification
Alcohols, C10-16, ethoxylated	1 - 5	ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A
quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	1 - 5	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

State regulations

- Massachusetts** : None of the components are listed.
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: ETHYL ALCOHOL; ALCOHOL
- Pennsylvania** : The following components are listed: DENATURED ALCOHOL; ETHANOL
- California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

Label elements

CCCR

- Signal word** : CAUTION
- Hazard statements** : MAY IRRITATE EYES

- Precautionary measures** : DO NOT get in eyes. Wash thoroughly with soap and water after handling.
Keep out of reach of children.

EPA

- Signal word:** : CAUTION
- Hazard statements** : Causes moderate eye irritation.

- Special Inert substance.** :
- Precautionary measures** : Keep out of reach of children.
DO NOT get in eyes.
Wash thoroughly with soap and water after handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. If you have sensitive skin wear rubber gloves.

- Skin sensitizer** :

Additional information / Recommendations

- Additional information** : Store in area inaccessible to small children. Keep securely closed. Non-refillable container. Do not reuse or refill this container. Discard in trash or offer for recycle, if available.

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16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	2
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



NFPA (30B) aerosol Flammability Not applicable

Key to abbreviations

: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 UN = United Nations

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Version : 5

Prepared by : Reckitt Benckiser India Ltd
 Plot No 48
 Sector - 32
 Institutional Area
 Gurgaon, Haryana
 India - 122001

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

D8262545 v5.0

16. Other information



RB is a member of the CSPA Product Care Product Stewardship Program.



MULTIPURPOSE™

SAFETY DATASHEET

SECTION 1: PRODUCT AND COMPANY ID

COMMERCIAL NAME:	MULTIPURPOSE™
CHEMICAL NAME:	LUBRICANT GREASE
PRODUCT SYNONYM:	LUBRICANT GREASE
PRODUCT CODE:	MTPP-200
APPROPRIATE IDENTIFIED USES FOR THE PRODUCT OR MIX	
RECOMMENDED USE:	MULTIPURPOSE LUBRICATING GREASE EXTREME PRESSURE AND HIGH TEMPERATURE.
MANUFACTURER:	GREASECO
ADDRESS:	1101 CUMBERLAND DRIVE, #252 VALPARAISO, IN 46383 UNITED STATES OF AMERICA
PHONE:	+1-800-773-6432
USA 24-HOUR EMERGENCY NUMBER:	+1-800-255-3924
INTERNATIONAL EMERGENCY NUMBER:	+1-813-248-0585
WEBSITE:	WWW.GREASECO.COM
EMAIL:	INFO@GREASECO.COM

SECTION 2: HAZARD IDENTIFICATION

EVEN THOUGH THIS MATERIAL IS NOT CONSIDERED DANGEROUS BY THE OSHA STANDARD 29 CFR 1910.1200, THIS SDS CONTAINS VALUABLE INFORMATION FOR THE HANDLING AND ADEQUATE USE OF THE PRODUCT. THIS SDS MUST BE KEPT AND SHALL BE AVAILABLE FOR THE PRODUCT USERS.

VISUAL ASPECT:	SEMI-SOLID AMBER
ODOR:	CHARACTERISTIC
PICTOGRAM(S):	
WARNING:	CAUTION!
OTHER HAZARDS:	NONE IDENTIFIED
Cautions:	WEAR PERSONAL PROTECTIVE EQUIPMENT (PPE): GLASSES, GLOVES, PROTECTIVE WEAR. SEE SECTION 16.
Waste:	ALL THE WASTE PRACTICES MUST COMPLY WITH THE LOCAL, REGIONAL AND INTERNATIONAL NORMS.

SECTION 3: COMPOSITION/COMPONENT INFO

INGREDIENTS

COMPONENT	PERCENTAGE	# CAS
MINERAL BASE OIL	60-97%	64742-65-0
ADDITIVE PACKAGE + THICKENER	3-40%	MIX

SECTION 4: FIRST AID MEASURES

EYES:	MAY CAUSE IRRITATION AND BLURRY OR CLOUDY VISION. EYES SHOULD BE WASHED THOROUGHLY WITH WATER, AND IF NEEDED, GET MEDICAL ATTENTION.
SKIN:	IF EXPOSED FOR LONG PERIODS OF TIME, MAY CAUSE MILD IRRITATION. IF PRODUCT IS RELEASED WITH HIGH PRESSURE AN UNDER SKIN INJECTION COULD TAKE PLACE, IN THIS CASE AN EMERGENCY SURGICAL INTERVENTION IS REQUIRED.
INHALATION:	TO INHALE THIS MATERIAL IN CONCENTRATIONS OVER THE ADVISED LIMIT MAY CAUSE HARMFUL EFFECTS OVER THE CENTRAL NERVOUS SYSTEM. MAY CAUSE RESPIRATORY IRRITATION OR SOME OTHER PULMONARY EFFECT AFTER EXTENDED OR REPEATED INHALATION OF THE OIL FOG IN LEVELS HIGHER THAN RECOMMENDED FOR EXPOSURE LIMIT.



SECTION 4: FIRST AID MEASURES (CONTINUED)

INGESTION:	THIS IS AN IMPLAUSIBLE EXPOSURE ROUTE BUT IN THE EVENT OF INGESTION, DO NOT INDUCE VOMIT. IF CONSCIOUS, SUPPLY 2 GLASSES OF WATER. GET MEDICAL ATTENTION IMMEDIATELY.
SIGNS AND SYMPTOMS OF EXPOSURE:	EFFECTS OVER THE CENTRAL NERVOUS SYSTEM MAY INCLUDE, HEADACHES, DIZZINESS, NAUSEA, VOMIT, GENERAL WEAKNESS, LOSE OF COORDINATION, BLURRY VISION, SOMNOLENCE, CONFUSION, DISORIENTATION. IN THE CASE OF EXTREME EXPOSURE, EFFECTS OVER THE CENTRAL NERVOUS SYSTEM MAY INCLUDE, RESPIRATORY DEPRESSION, SHAKING AND UNCONSCIOUSNESS.

SECTION 5: MEASURES TO FIGHT FIRE

FLASH POINT:	VARIES DEPENDING ON VISCOSITY GRADE. – SEE ASTM D 92 RESULTS ON SECTION 9.
EXTINGUISHING MEDIA:	CARBON DIOXIDE, CHEMICAL DRY POWDER OR FOAM. WATER COULD BE USED FOR COOLING AND PROTECTING EXPOSED MATERIAL.
INADEQUATE EXTINGUISHING MEDIA:	UNSPECIFIED
FIRE FIGHTING PROCEDURES	USE THE COMPLETE PROTECTION EQUIPMENT AGAINST FIRE, INCLUDING THE AUTONOMOUS RESPIRATORY SYSTEM, POSITIVE PRESSURE OPERATED WITH THE MASK, PROTECTIVE WEAR, PANTS, GLOVES AND BOOTS. DO NOT USE JET OF WATER.
FIRE RISKS AND UNUSUAL FIRES	HIGH TEMPERATURES MAY LEAD TO SMOKE AND STEAM.

SECTION 6: MEASURES IN CASE OF ACCIDENTAL SPILLAGE

INDIVIDUAL PRECAUTIONS PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	IN CASE OF LEAKAGE, CLEAN THE AREA AS SOON AS POSSIBLE. PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN. AVOID ANY SKIN, EYE AND CLOTHING CONTACT. VENTILATE THE AREA IF LEAKAGE TAKES PLACE ON AN ENCLOSED OR POOR VENTILATED AREA.
ENVIRONMENTAL PRECAUTIONS AND EMERGENCY PROCEDURES:	TAKE PREVENTIVE MEASURES NEEDED TO AVOID ANY ENVIRONMENTAL CONTAMINATION. AVOID SPILLS ON FLOORS, SEWERS, FLUVIAL CHANNELS AND UNDERGROUND WATER DEPOSITS.
CLEANING AND DISPOSAL METHODS:	SECURE THE MATERIAL IN ORDER TO AVOID FUTURE CONTAMINATION. CLEAN THE AREA USING APPROPRIATE TECHNIQUES SUCH AS THE USE OF ABSORBENT MATERIALS AND PUMPING. FOLLOW THE ESTABLISHED PROCEDURES TO REPORT IMPORTANT AND OUT OF CONTROL LEAKS.

SECTION 7: HANDLING AND STORAGE

HANDLING PROCEDURE:	MAKE SURE THERE IS PROPER VENTILATION. KEEP CONTAINERS CLOSED AND VERTICALLY POSITIONED WHEN NOT IN USE. DO NOT POUR ON SEWER OR THE ENVIRONMENT. DISPOSE OF THE MATERIAL IN AN AUTHORIZED COLLECTING POINT. USE AN APPROPRIATE SAFETY CONTAINER TO AVOID ENVIRONMENTAL POLLUTION. AVOID CONTACT WITH EYES, AND ALSO REPEATED OR EXTENDED CONTACT WITH SKIN. DO NOT EAT, DRINK OR SMOKE WHILE HANDLING THIS PRODUCT. AVOID INHALING POWDER, SMOKE, FOG OR FUMES. AVOID EXCESSIVE OVERWARMING. DO NOT USE EMPTY CONTAINERS, THESE CONTAIN PRODUCT RESIDUE WHICH REPRESENT THE SAME RISKS AS FULL PRODUCT. DO NOT DRINK, TASTE OR SWALLOW THIS PRODUCT. PACKAGING AND CONTAINERS MUST BE DISPOSED IN COMPLIANCE WITH LOCAL, NATIONAL AND INTERNATIONAL NORMS.
STORAGE PROCEDURE:	TAKE PROPER PRECAUTIONS TO AVOID ENVIRONMENTAL POLLUTION. STORE IN A FRESH, DRY AND WELL VENTILATED AREA. DECOMPOSITION FROM THIS PRODUCT MAY PRODUCE TOXIC FUMES IF STORED AT TEMPERATURES OVER 60 °C FOR LONG PERIODS OF TIME OF IF EXTREMELY HIGH SOURCES OF HEAT ARE USED. KEEP AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE IN OPEN CONTAINERS, UNLABELED OR INCORRECTLY LABELED. SEE SECTION 10 FOR INCOMPATIBLE MATERIAL LIST.
HANDLING AND STORAGE:	DO NOT STORE NEAR HEATH SOURCES, FLAME, SPARKS OR STRONG ANTI-RUST. KEEP CONTAINERS CLOSED AND LABELED AT ALL TIMES WHEN NOT IN USE. DO NOT STORE NEXT TO INCOMPATIBLE MATERIALS.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	IN NORMAL CONDITIONS, RESPIRATORY PROTECTION IS NOT REQUIRED, SPECIAL PRECAUTIONS ARE REQUIRED IF OPERATION GENERATES OIL MIST, THE EXPOSURE IS EXTENDED AND THE PROPER RESPIRATOR IS NOT USED.
EYE PROTECTION:	IF THERE'S ANY CONTACT RISK, WEAR PROTECTIVE GLASSES WITH LATERAL COVERS. OR A PROTECTIVE MASK AS A SAFETY MEASURE.
PROTECTIVE GLOVES:	SUGGESTED MATERIALS FOR PROTECTIVE GLOVES ARE: VITON AND NITRILE RUBBER. FOR USE WHILE THIS MATERIAL IS BEING HANDLED.
OTHER PROTECTIVE MEASURES:	CONSIDER THIS MATERIAL'S POTENTIAL RISK MEASURES, EXPOSURE LIMITS, ACTIVITY AND OTHER SUBSTANCES IN THE WORK AREA. IF THE CONTROLS AND WORK PROCEDURES ARE NOT THE ADEQUATE ONES TO PREVENT EXPOSURE AT DANGEROUS LEVELS, THE USE OF PROTECTIVE EQUIPMENT IS ADVISED (LISTED BELOW). OPERATOR MUST READ AND UNDERSTAND ALL THE INSTRUCTIONS AND LIMITATIONS STATED ON THIS SAFETY DATA SHEET.



SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION (CONTINUED)

OCCUPATIONAL EXPOSURE LIMITS:

ACGIH TLV: 5 MG/M3 (WHEN FUMES OR FOG ARE PRESENT)

OSHA PEL: 5 MG/M3 (WHEN FUMES OR FOG ARE PRESENT)

HYGIENE MEASURES: THOROUGHLY WASH HANDS AFTER HANDLING PRODUCT. DO NOT EAT, DRINK, OR SMOKE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

TEXTURE: SLIGHTLY TACKY

PHYSICAL STATE: SEMI-SOLID

COLOR: BLUE

ODOR: CHARACTERISTIC

PH: ND

BOILING POINT, °C: ND

FLASH POINT, °C: ND

DROPPING POINT, °C: 281

POUR POINT, °C: ND

DENSITY @ 20°C: ND

WATER SOLUBILITY: NOT SOLUBLE

60 STROKE PENETRATION @ 25°C, 1/10MM: 263

NLGI GRADE: 2

CINEMATIC VISCOSITY@ 100 °C, CST.: ND

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: MATERIAL IS GENERALLY STABLE AT NORMAL TEMPERATURES AND PRESSURES. AVOID HIGH IGNITION ENERGY SOURCES.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS, STRONG BASES, STRONG OXIDANT AGENTS.

HAZARDOUS BYPRODUCTS RELEASED DURING DECOMPOSITION: THERMIC DECOMPOSITION OR BURNING COULD RELEASE CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN AND SULPHUR.

SPONTANEOUS POLYMERIZATION: WON'T OCCUR.

CONDITIONS TO AVOID: DO NOT HEAT AT TEMPERATURES HIGHER THAN FLASHING POINT. CONTAINER IS NOT DESIGNED FOR HIGH PRESSURE. DO NOT APPLY PRESSURE WHILE POURING, THIS COULD BREAK CONTAINER WITH EXPLOSIVE STRENGTH.

SECTION 11: TOXICOLOGICAL INFO

EFFECTS ON EYES: RISK FOR EYE IRRITATION BASED ON INFO FOR SIMILAR MATERIALS.

EFFECTS ON SKIN: THE RISK FOR SKIN IRRITATION IS BASED ON INFO FOR SIMILAR MATERIALS.

ACUTE ORAL EFFECT: THE ACUTE ORAL TOXICITY IS BASED ON INFO FOR SIMILAR MATERIALS.

ACUTE INHALATION EFFECTS: THE ACUTE INHALATION TOXICITY BASED ON INFO FOR SIMILAR MATERIALS.

ADDITIONAL TOXICOLOGICAL INFORMATION: THIS PRODUCT CONTAINS MINERAL BASE OR SYNTHETIC OIL. THESE HAVE NOT BEEN CONSIDERED CAUSE FOR CANCER BY OSHA COMMUNICATION RISK NORM (29 CFR 1910.1200), THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), OR THE NATIONAL TOXICOLOGY PROGRAM (NTP).



SECTION 12: ENVIRONMENTAL INFORMATION

ECOTOXICITY:	AVAILABLE INFO REGARDING ECOTOXICITY STATES THAT SIDE EFFECTS ARE NOT EXPECTED IN AQUATIC ORGANISMS. ALWAYS KEEP OIL CONTAINED TO AVOID WATER SOURCE, SEWER AND DRAIN POLLUTION.
ENVIRONMENT:	GIVEN THE LACK OF INFO SPECIFIC TO THE ENVIRONMENT REGARDING THIS PRODUCT. IT IS SUPPORTED BY THE INFO ON REPRESENTATIVE PRODUCTS.

SECTION 13: INFO REGARDING PRODUCT DISPOSAL

REMARKS FOR WASTE:	PLACE WASTE MATERIAL IN A CONTAINER AND DISPOSE OF IT ACCORDINGLY TO LOCAL, REGIONAL, NATIONAL AND INTERNATIONAL NORMS. DO NOT DISPOSE IN WATER SOURCES, DRAINS OR SEWERS.
CONTAMINATED CONTAINERS:	THERE ARE OIL COLLECTING SERVICES. PLACE CONTAMINATED OIL IN CONTAINERS AND DISPOSE THEM ACCORDING TO NORMS AND CURRENT REGULATIONS. CONTACT LOCAL, NATIONAL AND INTERNATIONAL ENVIRONMENTAL AUTHORITIES FOR PROPER DISPOSAL METHOD.

SECTION 14: TRANSPORTATION INFO

TRANSPORTATION NAME:	THIS PRODUCT IS NOT CONSIDERED HAZARDOUS FOR TRANSPORTATION ACCORDING TO CODES UN, IMO.
NOM-002-SCT/2011:	NOT DEFINED BY THIS NORM.
NOM-004-SCT/2008:	NO REGULATED BY THIS NORM.
DOT (DEPT. OF TRANSPORT, USA):	NOT REGULATED FOR BULK TRANSPORT BY LAND.
TDG: RID/ADR	NOT REGULATED FOR RAIL BULK TRANSPORT.
TDG: RID/ADR	NOT REGULATED FOR BULK TRANSPORT BY LAND.
IMO, IMDG:	NOT REGULATED FOR BULK TRANSPORT BY SEA.
ICAO, IATA:	NOT REGULATED FOR BULK TRANSPORT BY AIR.

SECTION 15: INFO REGARDING REGULATIONS

NOM-018-STPS-2000:	RISK SYSTEM DUE TO CHEMICAL SUBSTANCES IN THE WORK CENTER.
NOM-010-STPS-1999:	SASFETY AND HYGIENE CONDITIONS IN THE WORK CENTER WHERE CHEMICAL MATERIALS ARE HANDLED, TRANSPORTED, PROCESSED OR STORED. THIS MATERIAL IS CAPABLE OF GENERATING POLLUTION IN THE WORK ENVIRONMENT.
NOM-004-SCT-2008:	SYSTEMS OF IDENTIFICATION OF UNITS DESIGNATED FOR THE TRANSPORT OF HAZARDOUS SUBSTANCES, MATERIALS AND WASTE.

SECTION 16: OTHER INFO

DEFINITIONS	
N/A:	NOT APPLICABLE.
N/D:	NO DATA AVAILABLE
OSHA:	OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION.
ACGIH:	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.
TLV:	THRESHOLD LIMIT VALUE
SDS:	SAFETY DATA SHEET.
CFR:	CODE OF FEDERAL REGULATIONS.
PEL	PERMISSIBLE EXPOSURE LIMITS.
IMO	INTERNATIONAL MARITIME ORGANIZATION (IMDG: INTERNATIONAL MARITIME CODE OF DANGEROUS GOODS).
ICAO	INTERNATIONAL CIVIL AVIATION ORGANIZATION.



SECTION 16: OTHER INFO (CONTINUED)

IATA:	INTERNATIONAL AIR TRANSPORT ASSOCIATION
ADR:	AGREEMENT FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD.
RID:	INTERNATIONAL REGULATIONS CONCERNING THE TRANSPORT OF DANGEROUS GOODS BY TRAIN.
REACH:	REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS
IARC:	INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

THE INFO PRESENTED ON THIS DESCRIPTIVE SHEET WAS OBTAINED FROM SOURCES CONSIDERED TECHNICALLY PRECISE AND TRUSTED. ALBEIT EFFORTS TO DISCLOSE ALL PRODUCT RISKS, IN SOME CASES THERE'S INFO LACKING, AND IF SO, IT IS STATED. HOWEVER, EXPRESSED OR IMPLICIT WARRANTY IS NOT OFFERED REGARDING THE ACCURACY OF THIS DATA AND RESULTS OBTAINED WHILE USING IT. THIS INFO REFERS ONLY TO THE SPECIFIED MATERIAL AND IT IS NOT VALID IF USE IN COMBINATION WITH OTHER MATERIALS, OR ANY PROCESS DIFFERENT TO THE ONE INSTRUCTED.

29 CFR 1910.1200 (OSHA HAZCOM 2012)
PERSONAL PROTECTIVE EQUIPMENT
IDENTIFICATION WORD: C



PROTECTIVE
GLASSES

PROTECTIVE
GLOVES

The information presented on this descriptive sheet was obtained from sources considered technically precise and trusted. Albeit efforts to disclose all product risks, in some cases there is information lacking, and if so, it is stated. However, expressed or implicit warranty is not offered regarding the accuracy of this data and results obtained while using it. The information refers only to the specified material and it is not valid if use in combination with other materials, or any process different to the one instructed.





V33236 - Peach Foam Wax

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1.1 Product identifier: V33236 - Peach Foam Wax

Other means of identification:

Non-applicable

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses (Professional users): Chemical cleaning products

Relevant uses (Industrial user): Chemical cleaning products

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party: National Carwash Solutions

1997 American Blvd

54115 De Pere - United States

Phone: 9203372175 - Fax: 9203379410

<https://ncswash.com>

1.4 Emergency phone number: 1-800-424-9300 or 1-703-527-3887

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200

Eye Dam. 1: Serious eye damage, Category 1, H318

Flam. Liq. 4: Flammable liquids, Category 4, H227

Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

29 CFR 1910.1200:

Danger

Hazard statements:

Eye Dam. 1: H318 - Causes serious eye damage.

Flam. Liq. 4: H227 - Combustible liquid.

Skin Irrit. 2: H315 - Causes skin irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/protective clothing/eye protection/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a poison center/doctor.

P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.

P403: Store in a well-ventilated place.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

Quaternary Ammonium Compounds; Amine Oxide; Cocamidopropyl Betaine

Acute Toxicity Estimate (ATE mix):

8.3 % (oral), 12.05 % (lc50 inhalation vapour) of the mixture consists of ingredient(s) of unknown toxicity

Additional labeling:

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Keep out of the reach of children

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification Chemical name/Classification Concentration CAS: 111-76-2 **2-butoxyethanol**

Acute Tox. 3: H331; Acute Tox. 4: H302; Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Danger **5 - <10 %** CAS:

Proprietary **Quaternary Ammonium Compounds**

Acute Tox. 4: H302; Skin Corr. 1B: H314 - Danger **<5 %** CAS: Proprietary **Amine Oxide**

Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger **<5 %** CAS: 64742-46-7 **Distillates (petroleum), hydrotreated middle, <20.5 cSt@40°C**

Asp. Tox. 1: H304 - Danger **<5 %** CAS: Proprietary **Cocamidopropyl Betaine**

Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger **<5 %** To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) **Additional provisions:**

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

For accidental releases in excess of reportable quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

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7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection

6.3) 7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 24.8 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection

10.5 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

propan-2-ol 8-hour TWA PEL 400 ppm 980 mg/m³ CAS: 67-63-0 Ceiling Values - TWA

Identification Occupational exposure limits

PEL

2-butoxyethanol ⁽¹⁾ 8-hour TWA PEL 50 ppm 240 mg/m³ CAS: 111-76-2 Ceiling Values - TWA

PEL

Glycerol 8-hour TWA PEL 5 mg/m³ CAS: 56-81-5 Ceiling Values - TWA

PEL

US. ACGIH Threshold Limit Values (2022):

propan-2-ol TLV-TWA 200 ppm

CAS: 67-63-0 TLV-STEL 400 ppm

2-butoxyethanol ⁽¹⁾ TLV-TWA 20 ppm

CAS: 111-76-2 TLV-STEL

Glycerol TLV-TWA 10 mg/m³ CAS: 56-81-5 TLV-STEL

Identification Occupational exposure limits

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

propan-2-ol PEL 400 ppm 980 mg/m³ CAS: 67-63-0 STEL 500 ppm 1225 mg/m³ 2-butoxyethanol ⁽¹⁾ PEL 20 ppm 97 mg/m³

Identification Occupational exposure limits

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CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

CAS: 111-76-2 STEL

Identification Occupational exposure limits

NIOSH: Immediately Dangerous To Life or Health (IDLH) Values:

propan-2-ol TWA

CAS: 67-63-0 IDLH Value 2000 ppm 2-butoxyethanol ⁽¹⁾ TWA

CAS: 111-76-2 IDLH Value 700 ppm

Identification Occupational exposure limits

⁽¹⁾ Skin

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH

Identification BEIs® Determinant Sampling Time

propan-2-ol

CAS: 67-63-0 40 mg/L Acetone in urine End of shift at end of

workweek

2-butoxyethanol

CAS: 111-76-2 200 mg/g (Creatinine) Butoxyacetic acid

(BAA) in urine End of shift

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

Pictogram PPE Remarks

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical

Protective gloves against minor risks

protection gloves. Use gloves in accordance with manufacturer's use limitations

Mandatory hand

and OSHA standard 1910.138 (29CFR)

protection

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram PPE Remarks

Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's

Panoramic glasses against splash/projections.

use limitations and OSHA standard 1910.133 (29CFR)

Mandatory face

protection

E.- Bodily protection

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Pictogram PPE Remarks

Work clothing Replace before any evidence of deterioration.

Anti-slip work shoes Replace before any evidence of deterioration.

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure Standards Emergency measure Standards

ANSI Z358-1

DIN 12 899

ISO 3864-1:2011, ISO 3864-4:2011

ISO 3864-1:2011, ISO 3864-4:2011

Emergency shower

Eyewash stations

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 5.88 % weight

V.O.C. at 68 °F: 300.63 kg/m³ (300.63 g/L)

California Air Resources Board (CARB) - VOC Regulatory:

V.O.C.(weight-percent): 5.88 % weight

V.O.C. at 68 °F: 300.63 kg/m³ (300.63 g/L)

South Coast Air Quality Management District (AQMD) - VOC Regulatory:

V.O.C.(weight-percent): 5.88 % weight

V.O.C. at 68 °F: 300.63 kg/m³ (300.63 g/L)

Ozone Transport Commission (OTC) Rules - VOC Regulatory:

V.O.C.(weight-percent): 5.88 % weight

V.O.C. at 68 °F: 300.63 kg/m³ (300.63 g/L)

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Liquid

Appearance: Non-applicable *

Color: Non-applicable *

Odor: Non-applicable *

Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 220 °F

Vapour pressure at 68 °F: 2331 Pa

Vapour pressure at 122 °F: 12277.87 Pa (12.28 kPa)

*Non-applicable due to the nature of the product, not providing information property of its hazards.



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Evaporation rate at 68 °F: Non-applicable *

Product description:

Density at 68 °F: 1011.7 kg/m³

Relative density at 68 °F: 1.012

Dynamic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 104 °F: Non-applicable *

Concentration: Non-applicable *

pH: Non-applicable *

Vapour density at 68 °F: Non-applicable *

Partition coefficient n-octanol/water 68 °F: Non-applicable *

Solubility in water at 68 °F: Non-applicable *

Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: 173 °F

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 460 °F

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

Particle characteristics:

Median equivalent diameter: Non-applicable *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Corrosive to metals: Non-applicable *

Heat of combustion: Non-applicable *

Aerosols-total percentage (by mass) of flammable

Non-applicable *

components:

Other safety characteristics:

Surface tension at 68 °F: Non-applicable *

Refraction index: Non-applicable *

*Non-applicable due to the nature of the product, not providing information property of its hazards.

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. **10.4 Conditions to avoid:**

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Applicable for handling and storage at room temperature:

Shock and friction Contact with air Increase in temperature Sunlight Humidity Not applicable Not applicable Risk of combustion Avoid direct impact Not applicable

10.5 Incompatible materials:

Acids Water Oxidising materials Combustible materials Others Avoid strong acids Not applicable Avoid direct impact Not applicable Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: propan-2-ol (3); 2-butoxyethanol (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

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Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

		Identification	Acute toxicity	Genus
Quaternary Ammonium Compounds	LD50 oral	960 mg/kg Rat	CAS: Proprietary	
	LD50 dermal			
	LC50 inhalation			
	LC50 inhalation vapour			
2-butoxyethanol	LD50 oral	1200 mg/kg Rat	LD50 dermal	
	LC50 inhalation vapour	3 mg/L		
CAS: 111-76-2				

Acute Toxicity Estimate (ATE mix):

		ATE mix	Ingredient(s) of unknown toxicity
Oral	12387.1 mg/kg (Calculation method)	8.3 %	
Dermal	>5000 mg/kg (Calculation method)	0 %	
LC50 inhalation vapour	52.77 mg/L (4 h) (Calculation method)	12.05 %	

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

		Identification	Concentration	Species	Genus
2-butoxyethanol	LC50	1490 mg/L (96 h)	Lepomis macrochirus Fish	CAS: 111-76-2	EC50 1815 mg/L (48 h)
			Daphnia magna Crustacean	EC50 911 mg/L (72 h)	Pseudokirchneriella subcapitata Algae
Quaternary Ammonium Compounds		LC50 Non-applicable			
CAS: Proprietary		EC50 Non-applicable			
					EC50 0.06 mg/L (72 h) N/A Algae
Amine Oxide		LC50 Non-applicable			
		CAS: Proprietary	EC50 0.55 mg/L (48 h)	Daphnia magna Crustacean	EC50 Non-applicable
Cocamidopropyl Betaine		LC50 >10 - 100 mg/L (96 h)	Fish	CAS: Proprietary	EC50 >10 - 100 mg/L (48 h)
			Crustacean	EC50 >10 - 100 mg/L (72 h)	Algae

Chronic toxicity:

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Identification Concentration Species Genus

2-butoxyethanol NOEC 100 mg/L Danio rerio Fish CAS: 111-76-2 NOEC 100 mg/L Daphnia magna Crustacean **12.2 Persistence and**

degradability:

Substance-specific information:

Identification Degradability Biodegradability

2-butoxyethanol BOD5 0.71 g O2/g Concentration 100 mg/L CAS: 111-76-2 COD 2.2 g O2/g Period 14 days BOD5/COD 0.32 %

Biodegradable 96 %

Quaternary Ammonium Compounds BOD5 Non-applicable Concentration Non-applicable CAS: Proprietary COD Non-applicable Period 28 days

BOD5/COD Non-applicable % Biodegradable 82 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification Bioaccumulation potential

2-butoxyethanol BCF 3

CAS: 111-76-2 Pow Log 0.83

Potential Low

12.4 Mobility in soil:

Identification Absorption/desorption Volatility

2-butoxyethanol Koc 8 Henry 1.621E-1 Pa·m³/mol CAS: 111-76-2 Conclusion Very High Dry soil Non-applicable Surface tension 2.729E-2 N/m (77 °F)

Moist soil Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

13.1 Disposal methods:

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.

State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:



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14.1 UN number: Non-applicable

14.2 UN proper shipping name: Non-applicable

14.3 Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4 Packing group, if applicable: Non-applicable

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according to

Non-applicable

Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

14.1 UN number: Non-applicable

14.2 UN proper shipping name: Non-applicable

14.3 Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4 Packing group, if applicable: Non-applicable

14.5 Marine pollutant: No

Special precautions which a user needs to be aware of, or needs to comply with, in connection with 14.6

transport or conveyance either within or outside their premises

Special regulations: Non-applicable

EmS Codes:

Physico-Chemical properties: see section 9

Limited quantities: Non-applicable

Segregation group: Non-applicable

14.7 Transport in bulk (according to

Non-applicable

Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2025:

14.1 UN number: Non-applicable

14.2 UN proper shipping name: Non-applicable

14.3 Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4 Packing group, if applicable: Non-applicable

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according to

Non-applicable

Annex II of MARPOL 73/78 and the IBC Code):

15.1 Safety, health and environmental regulations specific for the product in question:

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- CALIFORNIA LABOR CODE - The Hazardous Substances List: *2-butoxyethanol (111-76-2)*
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Non-applicable
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable - CANADA-Domestic Substances List (DSL): *2-butoxyethanol (111-76-2)* ; *Quaternary Ammonium Compounds (Proprietary)* ; *Amine Oxide (Proprietary)* ; *Distillates (petroleum), hydrotreated middle, <20.5 cSt@40°C (64742-46-7)* ; *Cocamidopropyl Betaine (Proprietary)*
- CANADA-Non-Domestic Substances List (NDSL): Non-applicable
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *2-butoxyethanol (111-76-2) - 1 lb*
- Hazardous Air Pollutants (Clean Air Act): *2-butoxyethanol (111-76-2)*
- Massachusetts RTK - Substance List: *2-butoxyethanol (111-76-2)*
- Minnesota - Hazardous substances ERTK: *2-butoxyethanol (111-76-2)*
- New Jersey Worker and Community Right-to-Know Act: *2-butoxyethanol (111-76-2)*
- New York RTK - Substance list: *2-butoxyethanol (111-76-2)*
- NTP (National Toxicology Program): Non-applicable
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
- Pennsylvania Worker and Community Right-to-Know Law: *2-butoxyethanol (111-76-2)*
- Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: *2-butoxyethanol (111-76-2)*
- Rhode Island - Hazardous substances RTK: *2-butoxyethanol (111-76-2)*
- SB-258 Cleaning Product Right to Know Act : *2-butoxyethanol (111-76-2)* ; *Quaternary Ammonium Compounds (Proprietary)* ; *Distillates (petroleum), hydrotreated middle, <20.5 cSt@40°C (64742-46-7)*
- The Toxic Substances Control Act (TSCA) : *2-butoxyethanol (111-76-2)* ; *Quaternary Ammonium Compounds (Proprietary)* ; *Amine Oxide (Proprietary)* ; *Distillates (petroleum), hydrotreated middle, <20.5 cSt@40°C (64742-46-7)* ; *Cocamidopropyl Betaine (Proprietary)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *2-butoxyethanol (111-76-2)* **Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H315: Causes skin irritation.

H318: Causes serious eye damage.

H227: Combustible liquid.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 3: H331 - Toxic if inhaled.

Acute Tox. 4: H302 - Harmful if swallowed.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Flam. Liq. 4: H227 - Combustible liquid.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Advice related to training:

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According to 29 CFR 1910.1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

Date of compilation: 7/7/2025

Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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REVEAL F2

SAFETY DATA SHEET

VALIDATION DATE: 1/5/2021

1. IDENTIFICATION

PRODUCT IDENTIFIER: REVEAL F2

SYNONYMS: GRIME & CALCIUM BUILDUP REMOVER

MANUFACTURER / SUPPLIER: Vision Chemical Systems, Inc
16401 E 33rd Drive, Suite 30
Aurora, CO 80011

PHONE: (303) 371-7342

24-HOUR EMERGENCY PHONE NUMBER - INFOTRAC: (800) 535-5053

2. HAZARD(S) IDENTIFICATION

Classification Of Substance/Mixture: Skin Irritation Category 2
Eye Irritation Category 2A

Pictogram:



Signal Word:

Warning!

Hazard Statement:

Causes skin irritation.
Causes serious eye irritation

Precautionary Statements:

Prevention:

Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/
face protection.

Skin Contact:

Wash with plenty of water and soap.
Specific treatment: see first aid section.
If skin irritation occurs: get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Persons with allergies or pre-existing skin conditions should
avoid contact.

Eye Contact:

Rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do.
Continue rinsing. if eye irritation persists get medical attention.

Inhalation:

Possible irritation of respiratory tract.

Aspiration Hazard:

If swallowed-can enter lungs and cause damage.

Carcinogens:

None of the ingredients are listed as carcinogens by IARC,
NTP, or OSHA.

California Prop 65:

This product does not contain any chemicals listed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	OSHA PEL	TLV	% By Weight
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Per the OSHA Hazard Communication Standard, 29 CFR 1910.1200 the specific chemical identities contained in this mixture are being withheld as a Trade Secret.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately rinse eyes with a gentle stream of clean water for at least 15 minutes, holding eyelids open.
Remove contact lenses if worn.
If irritation occurs and persists, seek medical attention.

Skin Contact: Remove contaminated clothing and thoroughly rinse skin with water.
Use soap to remove product from skin if available.
If irritation occurs and persists, seek medical attention.
Launder clothes before reuse.

Ingestion: Aspiration hazard if swallowed.
Do NOT induce vomiting unless directed to do so by medical personnel.
Never give anything by mouth to an unconscious person.
If vomiting occurs place head lower than hips to prevent aspiration.
Seek medical attention immediately.

Inhalation: In unlikely event that symptoms occur move affected person to fresh air.
If symptoms persist seek medical attention.

5. FIRE FIGHTING MEASURES

Flashpoint And Method: This product is not flammable or combustible.

Flammable Limits (in air): Upper: N/A Lower: N/A Autoignition Temperature: N/A

General Hazard: Evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes and smoke.

Suitable extinguishing Media: Water spray, CO2 , Chemical-type foam.

Decomposition Products: Not available

Hazard Combustion Products: Not determined for this product.

Fire Fighting Equipment: Respiratory and eye protection are required for fire fighting personnel.
Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.
For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

Sensitive To Static Discharge: No.

Sensitivity To Impact: No.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Release: Observe safety procedures in section 7 and 8 during clean up. Put on appropriate personal protective equipment (see section 8). Small spills can be wiped up. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal. Rinse area well with water.

Waste Disposal Method: Waste must be disposed of in accordance with all federal, state, and local environmental control regulations.

See Section 13 for disposal information and Section 15 for regulatory requirements.

7. HANDLING AND STORAGE

Storage: Store in a cool, dry, well-ventilated place, away from incompatible materials (e.g. strong oxidizers).
Keep from freezing, if frozen return to room temperature.

Handling: Under normal use according to label instructions, special protection should not be necessary.
Wear eye protection if product is likely to splash.
Do not place this product in an unmarked container.
Spilled material is slippery.

KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: General mechanical room ventilation is sufficient for normal use of this product. If use generates heavy vapors, mists, or aerosols, use local mechanical exhaust ventilation capable of maintaining emissions in the work area below a level of irritation to the eyes or respiratory tract.

Eye Protection: Use tight fitting safety glasses or splash goggles. fitting safety goggles.
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.
An eye wash station should be available in the work area.

Skin Protection: Use of chemical resistant gloves and apron is strongly recommended, especially for prolonged contact.
Safety shower should be available in the work area.

Inhalation: Respirator not required for normal use of this product.
Wear appropriate respirator when ventilation is inadequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red	Density	Not Determined
Physical State:	Liquid	Bulk Density (LBS/ft ³)	Not Determined
Odor	Mild Detergent	Vapor Pressure	Not Determined
Odor Threshold	Not Determined	Vapor Density (Air=1)	Not Determined
Molecular Formula	Not Determined	Evaporation Rate (H ₂ O=1)	<1
Moelcular Weight	Not Determined	VOC Content	Not Applicable
Boiling Point	100°C (212°F)	% Volatile	Not Determined
Freezing/Melting Point	2.17°C (35.9°F)	Solubility in Water	Complete
Specific Gravity	1.09 @ 25°C		

10. STABILITY AND REACTIVITY

General: This product is stable and hazardous polymerization will not occur.

Conditions To Avoid: Avoid excessive heat and flame.

Incompatible Material: Avoid contact with strong oxidizing agents or anything that is not compatible with water.

Decomposition Products: Not Determined.

Mechanical Impact: This product is NOT sensitive to mechanical impact.

Static Discharge: This product NOT sensitive to static discharge.

11. TOXICOLOGICAL INFORMATION

Route(s) Of Entry:	Ingestion. Not likely to be inhaled in dangerous amounts.
Carcinogenity:	No known effects.
Medical Condition Aggravated:	May aggravate pre-existing dermatitis.
Inhalation:	Not likely to be inhaled in hazardous amounts. Maintain adequate ventilation in the work area.
Ingestion:	Can cause irritation or damage to stomach and esophagus.
Eyes:	May cause severe eye irritation.
Skin (Dermal):	This product may cause irritation or redness of the skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No known effects.
Persistence and Degradability:	Not determined.
Bioaccumulative Potential:	Product is not expected to bioaccumulate.
Mobility in Soil:	Not determined.
Other Adverse Effects:	No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation).

13. DISPOSAL CONSIDERATIONS

Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

Dispose of contents/container in accordance with local/regional/national or international regulations.

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11).

Containers should be triple-rinsed before disposal or re-use.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name:	Industrial cleaners N.O.I., liquid keep from freezing	
DOT Hazard Class:	N/A	
DOT Packaging Group:	N/A	
DOT I.D. Number:	N/A	
DOT Label/Placard:	N/A	
Vessel (IMO/IMDG) Proper Shipping Name:	N/A	Label: Use product identifier, "Trade Name".
Air (ICAO/IATA) Proper Shipping Name:	N/A	Label: Use product identifier, "Trade Name".

15. REGULATORY INFORMATION

SARA 311 Hazard Category:	None.
SARA 313 Reportable Ingredients:	No products were found.
CERCLA Reportable Quantity:	Not Regulated
TSCA (Toxic Substance Control Act):	N/A
CAA (Clean Air Act, USA):	No products were found.
CWA (Clean Water Act):	No products were found.

16. OTHER INFORMATION**MANUFACTURERS DISCLAIMER:**

Information given herein is offered in good faith as accurate, but without guarantee, and represents the best information currently available to us; much of which comes from the manufacturer or supplier of components of this product. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product and its disposal are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Vision Chemical Systems Inc., makes no warranty, expressed or implied regarding the accuracy of the data or for the use of the product. Furthermore, Vision Chemical Systems Inc. expressly disclaims liability for loss, damage, or expense arising from or in anyway connected to the handling, storage, use or disposal of this product. Health and safety precautions in this data sheet may not be adequate for all individuals and product uses. It is the users obligation to ensure that this SDS is the most current SDS available for the product; to evaluate the information contained in this sheet in connection to the uses to which the product is to be put in the work place, and to use the product safely in accordance with all applicable laws and regulations. If there are any questions regarding the information contained in this sheet or its applicability for a particular use, the user is instructed to telephone Vision Chemical Systems Inc. at 1-888-VCS-4-YOU.



REVIVE

SAFETY DATA SHEET

VALIDATION DATE: 1/5/2021

1. IDENTIFICATION

PRODUCT IDENTIFIER: REVIVE

SYNONYMS: ALUMINUM RESTORER / BRIGHTENER

MANUFACTURER / SUPPLIER: Vision Chemical Systems, Inc
16401 E 33rd Drive, Suite 30
Aurora, CO 80011

PHONE: (303) 371-7342

24-HOUR EMERGENCY PHONE NUMBER - INFOTRAC: (800) 535-5053

2. HAZARD(S) IDENTIFICATION

OSHA Hazards: Target organ effect, Toxic by inhalation, Toxic by ingestion, Highly toxic by skin absorption, Corrosive

Target Organs: Liver, Kidneys, Bone

Signal Words: Danger

Pictograms:



GHS Classification:

Acute toxicity, Oral Category 2
Acute toxicity, Inhalation Category 2
Acute toxicity, Dermal Category 1
Skin corrosion Category 1A
Serious eye damage Category 1

GHS Label Elements, including precautionary statements:

Hazard Statements:

H300+H310 Fatal if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.
H402 Harmful to aquatic life

Precautionary Statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P262 do not get in eyes, on skin, or on clothing.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 In case of inadequate ventilation, wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do not induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EC Number	Percent	Hazardous	Chemical Characterization
Hydrogen Fluoride	7664-39-3	231-634-8	<10%	Yes	Substance
Hydrogen Chloride	7647-01-0	231-595-7	<10%	Yes	Substance
Phosphoric Acid	7664-38-2	231-633-2	<10%	Yes	Substance

4. FIRST AID MEASURES

EYE CONTACT:	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
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INHALATION:	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
--------------------	---

SKIN CONTACT:	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
----------------------	--

INGESTION:	As this product is a gas, refer to the inhalation section.
-------------------	--

POTENTIAL ACUTE HEALTH EFFECTS:

EYE CONTACT:	Causes serious eye damage.
INHALATION:	Toxic if inhaled.
SKIN CONTACT:	Causes severe burns.
FROSTBITE:	Try to warm up the frozen tissues and seek medical attention.
INGESTION:	As this product is a gas, refer to the inhalation section

OVER-EXPOSURE SIGNS / SYMPTOMS:

EYE CONTACT:	Adverse symptoms may include pain, watering, redness.
INHALATION:	No specific data.
SKIN CONTACT:	Adverse symptoms may include pain or irritation, redness, possible blistering.
INGESTION:	Adverse symptoms may include stomach pains.

4. FIRST-AID MEASURES (CONTINUED)

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

NOTES TO PHYSICIAN:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SPECIFIC TREATMENTS:	No specific treatment.
PROTECTION OF FIRST-AIDERS:	No action shall be taken involving any personal risk without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask, respirator, or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SEE TOXICOLOGICAL INFORMATION (SECTION 11)

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray Carbon Dioxide Chemical-type foam
Unsuitable Extinguishing Media:	High volume water jet
Specific Hazards During Firefighting:	Do not allow run-off from fire fighting to enter drains or water courses
Hazardous Combustion Products:	Fluorine compounds Carbon Monoxide Carbon Dioxide Smoke Phosphorus compounds
Specific Extinguishing Methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Further Information:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus for firefighting if necessary

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Emergency Procedures:	Use personal protective equipment Ensure adequate ventilation
Environmental Precautions:	Prevent product from entering drains Prevent further leakage or spillage if safe to do so If the product contaminates rivers and lakes or drains, inform authorities
Methods and Materials for Containment and Clean-up:	Soak up with inert absorbent material such as sand, silica gel, acid binder, universal binder, sawdust, or kitty litter Keep in suitable, closed containers for disposal

7. HANDLING AND STORAGE

Technical Measures:	Due to the unique hazards associated with hydrogen fluoride (HF), it is highly recommended that emergency pre-planning and training of employees occur to mitigate and facilitate rapid response to an exposure. Facilities need to have access to emergency showers, proper personal protective equipment (PPE), a supply of calcium gluconate gel, and complete training of all individuals on proper PPE and procedures.
Advice on Safe Handling:	Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Conditions for Safe Handling:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Prevent unauthorized access.
Materials to Avoid:	Oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	CAS Number	OSHA PEL (8-hour TWA)	IDLH
Hydrogen Fluoride	7664-39-3	3 ppm	30 ppm
Hydrogen Chloride	7647-01-0	5 ppm	50 ppm
Phosphoric Acid	7664-38-2	0.25 ppm	250 ppm

Engineering Controls: Effective ventilation in all processing areas.

Personal Protective Equipment:

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand Protection Material: Protective Gloves.

Remarks: The suitability of a specific workplace should be discussed with the producers of the protective gloves.

Eye Protection: Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face shield and protective suit for abnormal processing problems.

Skin and Body Protection: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene Measures: Avoid contact with skin, eyes and clothing. When using do not eat, drink, or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless	Vapor Density: _(air=1)	Not determined
Physical State:	Liquid	Upper Explosion Limit:	Not determined
Odor:	Acidic	Lower Explosion Limit:	Not determined
PH:	<1	Auto Ignition Temp:	No data available
Freezing / Melting Point:	No data available	Density:	Not determined
Boiling Point:	No data available	Specific Gravity:	1.11 @ 25°C
Flash Point:	Does not flash	Water Solubility:	Complete (hot and cold)
Evaporation Rate: _(n-Water=1)	1	Thermal Decomposition:	No data available
Vapor Pressure:	Not determined	Viscosity:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	Stable.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	No decomposition if stored and applied as directed.
Conditions to Avoid:	Heat, flames and sparks.
Incompatible Materials:	Oxidizing agents, strong alkalis.
Hazardous Decomposition Products:	May emit toxic fumes under fire conditions. Hydrogen Fluoride. Phosphorus compounds, Carbon Monoxide, Carbon Dioxide.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Aggravated Medical Condition:	None known.
Symptoms of Overexposure:	Effects are immediate and delayed. Symptoms include blistering, irritation, burns and pain. Effects are dependent on exposure (dose, concentration, contact time). Symptoms may include central nervous system depression resulting in headache, nausea and/or dizziness.

ACUTE EFFECTS

Eye Contact:	May cause irreversible eye damage.
Skin Contact:	Causes skin burns. Harmful if absorbed through the skin. Contact results in immediate skin absorption which may cause Hypocalcemia (Calcium loss). This effect may be delayed for several hours after exposure. Severe over-exposure by absorption can result in death.
Inhalation:	Irritation to nose and throat, may cause bronchitis, pulmonary edema, or death.
Ingestion:	Throat irritation, severe gastrointestinal burns that may cause death.
Target Organs:	Eyes, skin, respiratory system, and bones.
Acute Toxicity:	Oral LC ₅₀ (Rat) (1 Hour) = 1276 ppm Dermal LC _{L0} (Rabbit) (7 Hour) = 313 ppm

12. ECOLOGICAL INFORMATION

Toxicity: Significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Persistence and Degradability: Not biodegradable.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Collect and reclaim or dispose in sealed containers at a properly licensed waste disposal site. Do not allow this material to drain into sewers / water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used containers. Dispose of contents and container in accordance with local / regional / national or international regulations.

United States -**RCRA Toxic Hazardous Waste "U" List:**

Ingredient	CAS No.	Status	Reference No.
Hydrogen Fluoride, Hydrofluoric Acid	7664-39-3	Listed	U134

14. TRANSPORT INFORMATION

Transportation Regulation: DOT 49 CFR (USA)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Transportation Regulation: IMDG (Vessel)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Transportation Regulation: IATA (Cargo Air)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Transportation Regulation: IATA (Passenger Air)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Transportation Regulation: TDG (Canada)

UN2922, Corrosive Liquid, Toxic, N.O.S., 8 (6.1), PG II (Contains Hydrofluoric Acid)

Reportable Quantity: See CERCLA reportable quantity in next section.

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION

TSCA List: No substances are subject to a Significant New Rule or to TSCA 12(b) export notification.

EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT**CERCLA Reportable Quantity:**

Component	CAS No.	Component RQ (LBS)	Calculated Product RQ
Hydrogen Fluoride	7664-39-3	100	1000
Hydrogen Chloride	7647-01-0	5000	*
Phosphoric Acid	7664-38-2	5000	*

* Calculated RQ exceeds reasonably attainable upper limit

SARA 302:

The following component is subject to reporting levels per SARA Title III, Section 302:

Hydrogen Fluoride: 6.8041%

SARA 304:

Component	CAS No.	Component RQ (LBS)	Calculated Product RQ
Hydrogen Fluoride	7664-39-3	100	1000

SARA 311/312 Hazards:

Acute toxicity (any route of exposure). Skin corrosion or irritation. Serious eye damage or eye irritation

SARA 313:

The following component is subject to reporting levels per SARA Title III, Section 313:

Hydrogen Fluoride: 6.8041%

Clean Water Act (CWA) 311:

Hydrogen Fluoride, Hydrogen Chloride, Phosphoric Acid

Clean Air Act (CAA) 112(b) Hazardous Air Pollutants (HAPs):

Hydrogen Fluoride

16. OTHER INFORMATION

MANUFACTURERS DISCLAIMER:

Information given herein is offered in good faith as accurate, but without guarantee, and represents the best information currently available to us; much of which comes from the manufacturer or supplier of components of this product. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product and its disposal are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Vision Chemical Systems Inc., makes no warranty, expressed or implied regarding the accuracy of the data or for the use of the product. Furthermore, Vision Chemical Systems Inc. expressly disclaims liability for loss, damage, or expense arising from or in anyway connected to the handling, storage, use or disposal of this product. Health and safety precautions in this data sheet may not be adequate for all individuals and product uses. It is the users obligation to ensure that this SDS is the most current SDS available for the product; to evaluate the information contained in this sheet in connection to the uses to which the product is to be put in the work place, and to use the product safely in accordance with all applicable laws and regulations. If there are any questions regarding the information contained in this sheet or its applicability for a particular use, the user is instructed to telephone Vision Chemical Systems Inc. at 1-888-VCS-4-YOU.

Safety Data Sheet

Issue Date: 30-Nov-2016

Revision Date: 06-Dec-2016

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Soil Slugger Kit Liquid

Other means of identification

SDS # WASH-006

Product Code 3010076

Synonyms X-Treem Bond Buster-1975505, 1975530, 1975555.

Recommended use of the chemical and restrictions on use

Recommended Use Foaming soap.

Details of the supplier of the safety data sheet

Supplier Address

Wash Solutions
10701 King William Dr.
Dallas, TX 75220

Emergency Telephone Number

Company Phone Number Phone: 214-336-6760 Fax: 877-505-9274
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Thick pink liquid

Physical state Liquid

Odor Citrus

Classification

Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2

Signal Word

Danger

Hazard statements

Harmful if inhaled
Causes skin irritation
Causes serious eye damage
Suspected of causing cancer



Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS**Synonyms**

X-Treem Bond Buster-1975505, 1975530, 1975555.

Chemical Name	CAS No.	Weight-%
Nonylphenol Ethoxylate	127087-87-0	1-10
Proprietary solvent	Proprietary	1-10
Proprietary foaming agent	Proprietary	1-10
Amorphous silica	112926-00-8	<5
Acetic acid	64-19-7	<5

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. **

4. FIRST AID MEASURES**First Aid Measures****General Advice**

If exposed or concerned: Get medical advice/attention.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

Skin Contact

Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

Symptoms	May be harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes serious eye damage. Suspected of causing cancer.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required.
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Environmental precautions**Methods and material for containment and cleaning up**

Methods for Containment	Prevent further leakage or spillage if safe to do so.
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Methods for Clean-Up	Keep in suitable, closed containers for disposal.
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7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Store locked up.
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Incompatible Materials	None known based on information supplied.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary solvent	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Amorphous silica 112926-00-8	-	(vacated) TWA: 6 mg/m ³ TWA: 20 mppcf : (80)/ (% SiO ₂) mg/m ³ TWA	-
Acetic acid 64-19-7	STEL: 15 ppm TWA: 10 ppm	TWA: 10 ppm TWA: 25 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m ³	IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m ³ STEL: 15 ppm STEL: 37 mg/m ³

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Citrus
Appearance	Thick pink liquid	Odor Threshold	Not determined
Color	Pink		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.0	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limits in Air		
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density	Not determined	
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	

Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye damage.

Skin Contact Causes skin irritation.

Inhalation Harmful if inhaled.

Ingestion May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary foaming agent	> 5000 mg/kg (Rat) = 12400 µL/kg (Rat)	-	-
Proprietary solvent	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Nonylphenol Ethoxylate 127087-87-0	= 1310 mg/kg (Rat)	-	-
Proprietary surfactant	= 1000 mg/kg (Rat)	-	-
Acetic acid 64-19-7	= 3310 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Carcinogenicity**

Suspected of causing cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Proprietary foaming agent		Group 2B		X
Proprietary solvent	A3	Group 3		

Legend*ACGIH (American Conference of Governmental Industrial Hygienists)**A3 - Animal Carcinogen**IARC (International Agency for Research on Cancer)**Group 2B - Possibly Carcinogenic to Humans**Group 3 IARC components are "not classifiable as human carcinogens"**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**X - Present***Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	2,015.00 mg/kg
ATEmix (dermal)	7,873.00 mg/kg
ATEmix (inhalation-dust/mist)	5.89 mg/L
ATEmix (inhalation-vapor)	17.18 mg/L

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Proprietary foaming agent		3.6: 96 h Brachydanio rerio mg/L LC50 semi-static	4.2: 24 h Daphnia magna mg/L EC50
Proprietary solvent		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
Acetic acid 64-19-7		79: 96 h Pimephales promelas mg/L LC50 static 75: 96 h Lepomis macrochirus mg/L LC50 static	47: 24 h Daphnia magna mg/L EC50 65: 48 h Daphnia magna mg/L EC50 Static

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Proprietary solvent	0.81
Acetic acid 64-19-7	-0.31

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Acetic acid 64-19-7	Toxic Corrosive Ignitable

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Marine Pollutant

This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary emulsion	X	X	X	Present	X	Present	X	X
Proprietary foaming agent	X	X	X		X	Present	X	X
Proprietary solvent	X	X	X	Present	X	Present	X	X
Nonylphenol Ethoxylate	X	X	X		X	Present	X	X
Proprietary surfactant	X	X	X	Present	X	Present	X	X
Acetic acid	X	X	X	Present	X	Present	X	X
Amorphous silica	X	X		Present	X	Present	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetic acid 64-19-7	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 313

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Proprietary solvent -		1-10	1.0

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Acetic acid	5000 lb			X

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Proprietary foaming agent -	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Proprietary solvent	X	X	X
Acetic acid 64-19-7	X	X	X
Amorphous silica 112926-00-8	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical hazards

Not determined

Personal Protection

Not determined

Issue Date:

30-Nov-2016

Revision Date:

06-Dec-2016

Revision Note:

New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Safety Data Sheet

Issue Date: 30-Nov-2016

Revision Date: 06-Dec-2016

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Soil Slugger Kit Powder

Other means of identification

SDS # WASH-005

Product Code 3010077

Synonyms X-Treem Bond Buster-1975505, 1975530, 1975555.

UN/ID No UN3262

Recommended use of the chemical and restrictions on use

Recommended Use Powder soap.

Details of the supplier of the safety data sheet

Supplier Address

Wash Solutions
10701 King William Dr.
Dallas, TX 75220

Emergency Telephone Number

Company Phone Number Phone: 214-336-6760 Fax: 877-505-9274
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Red powder

Physical state Solid

Odor Neutral

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Corrosive to Metals	Category 1

Signal Word

Danger

Hazard statements

Harmful if swallowed
Causes severe skin burns and eye damage
Suspected of causing cancer
May cause respiratory irritation. May cause drowsiness or dizziness
May be corrosive to metals



Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep only in original container

Precautionary Statements - Response

Immediately call a poison center or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Do NOT induce vomiting
Absorb spillage to prevent material damage

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed
Store in corrosive resistant container with a resistant inner liner

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms X-Treem Bond Buster-1975505, 1975530, 1975555.

Chemical Name	CAS No.	Weight-%
Proprietary detergent	Proprietary	1-35
Sodium metasilicate	6834-92-0	15-25
Acetic acid	64-19-7	<5

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. **

4. FIRST AID MEASURES**First Aid Measures**

General Advice	Immediately call a poison center or doctor/physician.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin Contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Ingestion	Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects

Symptoms	Harmful if swallowed. Causes severe skin burns and eye damage. Suspected of causing cancer. May cause respiratory irritation. May cause drowsiness or dizziness.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required.
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Environmental precautions**Methods and material for containment and cleaning up**

Methods for Containment	Prevent further leakage or spillage if safe to do so.
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Methods for Clean-Up	Keep in suitable, closed containers for disposal.
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7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep only in original container.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner.
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Incompatible Materials	None known based on information supplied.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium metasilicate 6834-92-0	2 mg/m ³	2 mg/m ³	-
Acetic acid 64-19-7	STEL: 15 ppm TWA: 10 ppm	TWA: 10 ppm TWA: 25 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m ³	IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m ³ STEL: 15 ppm STEL: 37 mg/m ³

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid	Odor	Neutral
Appearance	Red powder	Odor Threshold	Not determined
Color	Red		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	N/A	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	100 °C / 212 °F	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limits in Air		
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density	Not determined	
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Inhalation Do not inhale.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary detergent	= 3120 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-
Proprietary detergent	Not available	-	-
Sodium metasilicate 6834-92-0	= 1153 mg/kg (Rat)	-	-
Acetic acid 64-19-7	= 3310 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Carcinogenicity**

Suspected of causing cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Proprietary detergent		Group 2B		X

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	1,896.00 mg/kg
ATEmix (dermal)	11,044.00 mg/kg
ATEmix (inhalation-dust/mist)	752.40 mg/L

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Proprietary detergent		1650: 48 h Leuciscus idus mg/L LC50	
Sodium metasilicate 6834-92-0		210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50	216: 96 h Daphnia magna mg/L EC50
Acetic acid 64-19-7		79: 96 h Pimephales promelas mg/L LC50 static 75: 96 h Lepomis macrochirus mg/L LC50 static	47: 24 h Daphnia magna mg/L EC50 65: 48 h Daphnia magna mg/L EC50 Static

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Acetic acid 64-19-7	-0.31

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Acetic acid 64-19-7	Toxic Corrosive Ignitable

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN3262
 Proper Shipping Name Corrosive solid, basic, inorganic, n.o.s. (sodium metasilicate)
 Hazard Class 8
 Packing Group II

IATA

UN/ID No UN3262
 Proper Shipping Name Corrosive solid, basic, inorganic, n.o.s. (Sodium metasilicate)
 Hazard Class 8
 Packing Group II

IMDG

UN/ID No UN3262
 Proper Shipping Name Corrosive solid, basic, inorganic, n.o.s. (Sodium metasilicate)
 Hazard Class 8
 Packing Group II

15. REGULATORY INFORMATION**International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary detergent	X	X	X	Present	X	Present	X	X
Proprietary detergent				Present	X		X	
Sodium metasilicate	X	X	X	Present	X	Present	X	X
Acetic acid	X	X	X	Present	X	Present	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetic acid 64-19-7	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Acetic acid	5000 lb			X

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Proprietary detergent -	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Proprietary detergent		X	X
Proprietary detergent		X	
Acetic acid 64-19-7	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical hazards

Not determined

Personal Protection

Not determined

Issue Date:

30-Nov-2016

Revision Date:

06-Dec-2016

Revision Note:

New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

STIHL HP (HIGH PERFORMANCE) 2-CYCLE ENGINE OIL

Packaged for Stihl Incorporated, 536 Viking Drive, Virginia Beach, VA 23452



Safety Data Sheet

Conforms to HCS 2012 (29 CFR 1910.1200)

Section 1. Identification

Product identifier

Product Name:	STIHL HP (High Performance) 2-Cycle Engine Oil
Other names:	Synthetic Blend 2-Cycle Engine Oil
Part/Product Number(s):	0781-319-8008, 0781-319-8009, 0781-319-8010, 0781-319-8011, 0781-319-8012, 0781-319-8013, 0781-319-8014, 0781-319-8015, 0781-319-8016, 0781-319-8044, 0781-319-8045, 0781-319-8049, 0781-319-8050, 0781-319-8051, 7010-871-0208, 7010-871-0177
Material Use:	2-cycle engine fuel additive
Uses advised against:	Not for use in non-2-cycle engines.
Manufacturer:	Omni Specialty Packaging, LLC 10399 Hwy 1 South Shreveport, LA 71115 1-318-524-1100
Issuing date:	May 21, 2015
Revision date:	July 29, 2025
Revision number:	8.2
Company contact:	OMNI EHS Department: E-Mail: sds@omnisp.com ; Contact phone: 318-524-1100 (Monday-Friday, 8:00 AM – 4:00 PM, CST)
<u>In case of emergency:</u>	CHEMTREC: Within USA and Canada: 1 (800) 424-9300 (24/7) CHEMTREC: Outside USA and Canada: +1 703-527-3887 (24/7)

Section 2. Hazards Identification

OSHA/HCS Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the Substance or Mixture: Not classified

GHS Label Elements

Hazard pictograms:	
Signal word:	None
Hazard statement:	None

Precautionary statements

General:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention:	Not applicable
Response:	Not applicable
Storage:	Not applicable
Disposal:	Not applicable
Hazards not otherwise classified (HNOC):	Defatting to the skin.

Other information: Product diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

Section 3. Composition/Information on Ingredients

Petroleum mineral oil lubricant base stock with proprietary performance additives mixture.

Substance/Mixture: Mixture

Components Name	CAS number	Weight %*
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15-C50)	Various	80 - 95
2-Cycle Engine Oil Additives Mixture	Proprietary	5 – 15

* The exact percentage of composition has been withheld as a trade secret.

Section 4. First Aid Measures

Description of necessary first aid measures

General Advice: No specific first aid measures are required. Get medical attention if irritation develops and persists.

Eye contact: In case of contact, immediately flush eyes with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if irritation develops and persists.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation or allergic reaction develops and persists.

Inhalation: In case of inhalation of decomposition products in a fire, symptoms may be delayed. If inhaled, remove to fresh air. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.

Ingestion: Do NOT induce vomiting. Rinse mouth with water. If symptoms persist, call a physician.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent the spread of contamination. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Most Important

Symptoms and Effects: Personnel with pre-existing skin disorders should avoid contact with this product. Under normal use conditions, no adverse effects to health are known.

Eye contact: Not expected to cause prolonged or significant eye irritation.

Skin contact: Contact with skin is not expected to cause prolonged or significant irritation. Contact with skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

Inhalation: Not expected to be harmful if inhaled. Contains petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficult breathing.

Ingestion: Not expected to be harmful if swallowed.

Note to physician: Treat symptomatically.

Section 5. Fire-Fighting Measures

Extinguishing Media

Suitable Media: In case of fire, use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water fog, foam, dry chemical, carbon dioxide (CO₂) extinguisher or spray.

Unsuitable Media: CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical:

Keep product and empty container away from heat and sources of ignition as product will burn. Contact with strong oxidizers may cause fire. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be contained, prevented from being discharged to any waterway, sewer or drain and disposed of in accordance with local regulations.

Hazardous Combustion Products: Combustion products may include the following: Carbon dioxide (CO₂) Carbon monoxide (CO), and Nitrogen oxides.

Protection of Fire Fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for ecological information.

Methods and materials for containment and cleaning up

Small Spills: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spills: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures:

Eye protection and face shield should be used if material is used under conditions that increase the chances of splattering. Put on appropriate personal protective equipment (see Section 8). Keep out of reach of children.

NOTE: Product diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

Advice on general occupational hygiene:

Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, strong oxidizing agents (see Section 10) and food and drink. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Avoid contaminating soil or releases into sewage or drainage systems and bodies of water.

Section 8. Exposure Controls/Personal Protection

Control parameters

Occupational Exposure Limits

Chemical name	ACGIH		OSHA		NIOSH	
	TLV	STEL	PEL	STEL	TWA	Ceiling
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15-C50)	5 mg/m3 (mist)	10 mg/m3 (mist)	5 mg/m3 (mist)	—	—	—

Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emergency shower and eyewash station.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection:

Wear safety glasses with side shields.

Skin and Body Protection

Hand protection:

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. Consult your supervisor or Standard Operating Procedure (SOP) for special handling instructions.

Body protection:

No protective equipment is needed under normal use conditions. For non-routine tasks, personal protection equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory protection:

No respiratory protection is normally required. If user operation generates an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Section 9. Physical and Chemical Properties

Appearance**Physical State:****Color:****Odor:****pH:****Boiling Point:****Flash Point (Closed cup):****Pour Point:****Evaporation rate (Butyl acetate = 1):****Flammability (solid, gas):****Flammable) Limit in Air****Vapor pressure:****Relative vapor density (Air = 1):****Specific gravity (Water = 1):****Solubility:****Partition coefficient (n-Octanol/water):****Auto-ignition temperature:****Decomposition temperature:****Viscosity – Kinematic (cSt (mm²/s)@ 40°C):****Viscosity – Kinematic (cSt (mm²/s) @ 100°C):****VOC %:****(Typical or Target)**

Liquid

Blue

Petroleum distillates

Not applicable

Not available

222°C (432°F)

-25°C (-13°F)

Not available

Not applicable. Based on - Physical state

Not available

Not available

>1

0.8820 - 0.8990

In soluble in water

Not available

Not available

Not available

85 to 100

10.3 to 12

Not available

Section 10. Stability and Reactivity

Reactivity:**Chemical stability:****Possibility of hazardous reactions:****Hazardous polymerization:****Conditions to avoid:****Incompatible materials:****Hazardous decomposition products:**

Not reactive under normal storage conditions

Stable under normal storage conditions

None under normal processing.

Hazardous polymerization does not occur.

Heat, flames and sparks.

Oxidizing agents, Halogens, Halogenated compounds

May include: Fumes, Oil vapors, Smoke, Carbon Oxides (including carbon monoxide and carbon dioxide), Aldehydes, Nitrogen oxides, and incomplete combustion products.

Section 11. Toxicological Information

Information on toxicological effects**Basis for Assessment:**

Information given is based on product data, a knowledge of the components and the toxicity of similar products.

Likely Routes of Exposure:

Exposure may occur via skin absorption, skin or eye contact, inhalation, ingestion.

Substance/Mixture

Acute Toxicity	Oral LD50	Dermal LD50	Inhalation LC50
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15- C50) Mixture - Typical	>2000 mg/Kg (rat)	>2000 mg/Kg (rabbit)	>2.18 mg/L (rat) 4h (mist)

Aspiration hazard:	Not expected to be an aspiration hazard.
Skin Corrosion/Irritation:	No known significant effects or critical hazards.
Serious Eye Damage/Irritation:	No known significant effects or critical hazards.
Skin Sensitization:	No known significant effects or critical hazards.
Respiratory Sensitization:	No known significant effects or critical hazards.
Specific Target Organ Toxicity (Single Exposure) - STOT-SE:	No known significant effects or critical hazards.
Specific Target Organ Toxicity (Repeated Exposure) – STOT-RE:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Germ Cell Mutagenicity:	No known significant effects or critical hazards.
Reproductive Toxicity:	No known significant effects or critical hazards.

Information on Toxicity Effects of Compounds

Lubricant Base Mineral Oil (Petroleum)

Mineral oils are known to cause cancer because of carcinogenic components (e.g. Benzene). The lubricant base mineral oils in this product have been highly refined by a variety of processes including severe solvent extraction, severe hydro cracking or severe hydro treating to reduce aromatics and improve performance characteristics. The oils in this product meet the IP-346 criteria of less than 3 percent PHA's and are not considered to be a carcinogen by the International Agency for Research on Cancer.

None of the oils in this product require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

2-Cycle engine oils mix with gasoline:

2-cycle engine oils diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

Section 12. Ecological Information

The information is based on data available for the material, the components of the material, and similar materials.

Ecotoxicity: No testing has been performed by the manufacturer. Ecotoxicity hazard is based on an evaluation of data for the components or a similar material. Not expected to be harmful to aquatic organisms.

Mobility: Base oil component – Low solubility and floats and is expected to migrate from water to land. Expected to partition to sediment and wastewater solids.

Soil/water partition coefficient (K_{oc}): Not available.

Persistence and degradation
Biodegradation:

The material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

Bioaccumulative potential
Bioaccumulation:

This product is not expected to bioaccumulate through food chain in the environment.

Other adverse effects: No known significant effects or critical hazards.

Other ecological information: Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

Section 13. Disposal Considerations

Disposal recommendations based on material supplied.

Waste treatment methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Consult the appropriate state, regional, or local regulations for additional requirements. The generation of waste should be avoided or minimized wherever possible.

Product waste: Significant quantities of waste product residues should not be disposed of via the sanitary sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Incineration or landfill should only be considered when recycling is not feasible. Oil collection services are available for used oil recycling.

Contaminated packaging: Empty containers or liners may retain some product residues and could pose a potential fire and explosion hazard. Do not cut, puncture, or weld containers.

Other information: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport Information

General information: Petroleum lubricating oil - Not regulated.

	DOT Classification	IMDG	IATA
Stihl HP 2-Cycle	Not Regulated	Not Regulated	Not Regulated

Special precautions for user: Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory Information

United States Regulations

United States Inventory (TSCA 8b): All components are listed or exempted.
SARA 302/304: No products were found.

SARA 311/312: Hazard Classification: None

SARA 313: The following components of this material are found on the EPCRA 313 list:
None

Supplier notification: This product does not contain any hazardous ingredients at or above regulated thresholds.

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA: This material, as supplied, does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

State Regulations

Massachusetts: None of the components are at or above regulated thresholds.
New Jersey: None of the components are at or above regulated thresholds.
Pennsylvania: None of the components are at or above regulated thresholds.
California Proposition 65:

 **WARNING:** This product can expose you to chemical(s): Ethyl benzene, which are known to the State of California to cause cancer.

Canada

WHMIS Hazard Class: Not classified.

International Chemical Inventories:

All components comply with the following chemical inventory requirements: DSL (Canada)

Section 16. Other Information

NFPA Rating:	Health Hazard – 0	Flammability – 1	Instability/Reactivity – 0
HMIS Rating:	Health Hazard – 0	Flammability – 1	Physical Hazards – 0

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; * - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS or Hazardous Material Identification System).

Key to abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

Prepared By: OMNI Specialty Packaging EH&S Department

Revision Date: July 29, 2025

Status: Final

Revision Note: Revision 8.2 – Review and update.

Disclaimer

All reasonably practicable steps have been taken to ensure the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

End of Safety Data Sheet

Safety Data Sheet

TRUEGARD OIL 32, 46, 68

According to OSHA Hazard Communication Standard, 29 CFR
1910.1200 1/8 Print Date 02/01/21 SDS_US



SECTION 1

MATERIAL AND COMPANY IDENTIFICATION

Material Name: TRUEGARD OIL 32, 46, 68

Uses: Hydraulic oil

Emergency Telephone Number

Spill Information: 877-242-7400

Health Information: 877-504-9351

MSDS Request: 773-247-7606

Supplied by:

KELLER-HEARTT OIL

4411 South Tripp Ave.

Chicago, IL 60632

P. 773-247-7606 F. 773-247-7969

www.kellerheartt.com

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

Highly refined mineral oils and additives.

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

SECTION 3

HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odour : Brown. Liquid. Slight hydrocarbon.

Health Hazards : High-pressure injection under the skin may cause serious damage including local necrosis.

Safety Hazards : Not classified as flammable but will burn.

Environmental Hazards : Not classified as dangerous for the environment.

Health Hazards : Not expected to be a health hazard when used under normal conditions.

Health Hazards Inhalation : Under normal conditions of use, this is not expected to be a primary route of exposure.

Skin Contact : Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Eye Contact : May cause slight irritation to eyes.

Ingestion : Low toxicity if swallowed.

Other Information : High-pressure injection under the skin may cause serious damage including local necrosis. Used oil may contain harmful impurities.

Signs and Symptoms : Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. Ingestion may result in nausea, vomiting and/or diarrhea.

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Aggravated Medical Condition: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.

Environmental Hazards : Not classified as dangerous for the environment.

Additional Information : Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 4

FIRST AID MEASURES

General Information : Not expected to be a health hazard when used under normal conditions.

Inhalation : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

Skin Contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.

Eye Contact : Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

Ingestion : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

Advice to Physician : Treat symptomatically. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.

SECTION 5

FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point : Typical 209 °C / 408 °F (PMCC / ASTM D93)

Upper / lower

Flammability or

Explosion limits: Typical 1 - 10 %(V)(based on mineral oil)

Auto ignition temperature : > 320 °C / 608 °F

Specific Hazards : Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

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Suitable Extinguishing Media: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing

Media: Do not use water in a jet.

Protective Equipment for Firefighters: Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.

Protective measures : Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Clean Up Methods : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Additional Advice : Local authorities should be advised if significant spillages cannot be contained.

SECTION 7

HANDLING AND STORAGE

General Precautions : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Handling : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Storage : Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers.
Storage Temperature: 0 - 50 °C / 32 - 122 °F

Recommended Materials : For containers or container linings, use mild steel or high density polyethylene.

Unsuitable Materials : PVC.

Additional Information : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

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SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material Source Type ppm mg/m3 Notation

Oil mist, mineral ACGIH TWA(Mist.) 5 mg/m3 Oil mist, mineral ACGIH STEL(Mist.) 10 mg/m3

Exposure Controls : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Personal Protective Equipment: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory Protection : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65 °C (149 °F)].

Hand Protection : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Eye Protection : Wear safety glasses or full face shield if splashes are likely to occur.

Protective Clothing : Skin protection not ordinarily required beyond standard issue work clothes.

Monitoring Methods : Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Environmental Exposure Controls: Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

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SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Brown. Liquid.

Odour : Slight hydrocarbon.

pH : Not applicable.

Initial Boiling Point and

Boiling Range

: > 280 °C / 536 °F estimated value(s)

Pour point : Typical -30 °C / -22 °F

Flash point : Typical 209 °C / 408 °F (PMCC / ASTM D93)

Upper / lower Flammability

or Explosion limits: Typical 1 - 10 %(V) (based on mineral oil)

Auto-ignition temperature : > 320 °C / 608 °F

Vapour pressure : < 0.5 Pa at 20 °C / 68 °F (estimated value(s))

Density : Typical 875 kg/m³ at 15 °C / 59 °F

Water solubility : Negligible. n-octanol/water partition coefficient (log Pow): > 6 (based on information on similar products)

Kinematic viscosity : Typical 32 mm²/s at 40 °C / 104 °F

Vapour density (air=1) : > 1 (estimated value(s))

Evaporation rate (nBuAc=1) : Data not available

SECTION 10

STABILITY AND REACTIVITY

Stability : Stable.

Conditions to Avoid : Extremes of temperature and direct sunlight.

Materials to Avoid : Strong oxidising agents

Hazardous Decomposition Products: Hazardous decomposition products are not expected to form during normal storage.

SECTION 11

TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on data on the components and the toxicology of similar products.

Acute Oral Toxicity : Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat

Acute Dermal Toxicity : Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit

Acute Inhalation Toxicity : Not considered to be an inhalation hazard under normal conditions of use.

Skin Irritation : Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

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Eye Irritation : Expected to be slightly irritating.

Respiratory Irritation : Inhalation of vapours or mists may cause irritation.

Sensitisation : Not expected to be a skin sensitiser.

Repeated Dose Toxicity : Not expected to be a hazard.

Mutagenicity : Not considered a mutagenic hazard.

Carcinogenicity : Product contains mineral oils of types shown to be noncarcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.

Reproductive and Developmental Toxicity

: Not expected to be a hazard.

Additional Information : Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity : Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

Mobility : Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

Persistence/degradability : Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulation : Contains components with the potential to bioaccumulate.

Other Adverse Effects : Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

SECTION 13

DISPOSAL CONSIDERATIONS

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

Container Disposal : Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Local Legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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SECTION 14

TRANSPORT INFORMATION

US Department of Transportation Classification (49CFR)

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

SECTION 15

REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status

EINECS All components listed or
polymer exempt.

TSCA All components listed.

DSL All components listed.

SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16

OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity): 0, 1, 0

MSDS Version Number : 2.0

MSDS Effective Date : 07/03/2008

MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the previous version.

MSDS Regulation : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

MSDS Distribution : The information in this document should be made available to all who may handle the product.

Disclaimer : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.



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1.1 GHS Product identifier: UF222 - Ultra Presoak 222

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Chemical cleaning products

Liquid detergent mixture for commercial car washes.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: Cleaning Systems, Inc.

1997 American Blvd

54115 De Pere - United States

Phone.: 9203372175 - Fax: 9203379410

chemcompliance@cleaningsystemsinc.com

http://cleaningsystemsinc.com

1.4 Emergency phone number: 1-800-424-9300 or 1-703-527-3887

2.1 Classification of the substance or mixture:

NFPA:

Health Hazards: 3

Flammability Hazards: 0

Instability Hazards: 0

Special Hazards: Non-applicable

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Corr. 1A: Skin corrosion, Category 1A, H314

Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

NFPA:



29 CFR 1910.1200:

Danger



Hazard statements:

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage

Skin Sens. 1: H317 - May cause an allergic skin reaction

STOT SE 3: H335 - May cause respiratory irritation

Precautionary statements:

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P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P403+P233: Store in a well-ventilated place. Keep container tightly closed
P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Substances that contribute to the classification

Surfactant Mixture; Ethanediol; 2-aminoethanol; tetrasodium ethylene diamine tetraacetate

Acute Toxicity Estimate (ATE mix):

28.78 % (oral), 33.49 % (dermal), 41.76 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity **Additional labeling:**

Keep out of the reach of children

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration	CAS	Non-applicable	Surfactant Mixture
					Eye Dam. 1: H318 - Danger 15 - <35 %
CAS: 107-21-1	Ethanediol				Acute Tox. 4: H302 - Warning 5 - <10 %
CAS: 141-43-5	2-aminoethanol				Acute Tox. 4: H302+H312+H332; Flam. Liq. 4: H227; Skin Corr. 1B: H314 - Danger 5 - <10 %
CAS: 127087-87-0	4-Nonylphenol, branched, ethoxylated				Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning 5 - <10 %
CAS: 64-02-8	tetrasodium ethylene diamine tetraacetate				Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger <5 %
CAS: 1310-73-2	sodium hydroxide				Skin Corr. 1A: H314 - Danger <5 %
CAS: 5989-27-5	d-limonene				Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning <5 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

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By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

5.1 Suitable (and unsuitable) extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

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The characteristic of corrosivity per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D002 could apply. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection

6.3) 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: -4 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection

10.5 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

	Identification	Occupational exposure limits
sodium hydroxide	8-hour TWA PEL 2 mg/m ³ CAS: 1310-73-2 Ceiling Values - TWA	PEL
2-aminoethanol	8-hour TWA PEL 3 ppm 6 mg/m ³ CAS: 141-43-5 Ceiling Values - TWA	PEL

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

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If product is used at the concentration dosing conditions specified in the relevant instructions for use (section 15), personal protective equipment described in section 8.2 for UNDILUTED products will not be required.

Safe handling recommendations for undiluted product:

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands

Pictogram PPE Remarks

Mandatory hand
protection

Protective gloves against minor risks

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical

protection gloves. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

D.- Ocular and facial protection

Pictogram PPE Remarks

Mandatory face
protection

Panoramic glasses against splash/projections.

Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's

use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram PPE Remarks

Work clothing Replace before any evidence of deterioration.

Anti-slip work shoes Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure Standards Emergency measure Standards

ANSI Z358-1

DIN 12 899

ISO 3864-1:2011, ISO 3864-4:2011

ISO 3864-1:2011, ISO 3864-4:2011

Emergency shower

Eyewash stations

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

National volatile organic compound emission standards (40 CFR Part 59):

V.O.C. (Subpart C - Consumer): 15.47 % weight

V.O.C. (Coatings) at 68 °F: 166.37 kg/m³ (166.37 g/L)

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9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Liquid

Appearance: Transparent

Color: Brown

Odor: Citric

Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 233 °F

Vapour pressure at 68 °F: 2166 Pa

Vapour pressure at 122 °F: 11421.44 Pa (11.42 kPa)

Evaporation rate at 68 °F: Non-applicable *

Product description:

Density at 68 °F: 1075.6 kg/m³

Relative density at 68 °F: 1.076

Dynamic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 104 °F: Non-applicable *

Concentration: Non-applicable *

pH: >13 at 100 %

Vapour density at 68 °F: Non-applicable *

Partition coefficient n-octanol/water 68 °F: Non-applicable *

Solubility in water at 68 °F: Non-applicable *

Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Flammability:

Flash Point: Non Flammable (>199.4 °F)

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 458 °F

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

Explosive:

Lower explosive limit: Non-applicable *

Upper explosive limit: Non-applicable *

9.2 Other information:

Surface tension at 68 °F: Non-applicable *

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7. **10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. **10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction Contact with air Increase in temperature Sunlight Humidity Not applicable Not applicable Precaution Precaution Not applicable

10.5 Incompatible materials:

Acids Water Oxidising materials Combustible materials Others Avoid strong acids Not applicable Precaution Not applicable Not applicable

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
IARC: 2,2'-iminodiethanol (2B); d-limonene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

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E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

	Identification	Acute toxicity	Genus
Ethanediol	LD50 oral 500 mg/kg Rat CAS: 107-21-1	LD50 dermal 9530 mg/kg Rabbit	LC50 inhalation Non-applicable
2-aminoethanol	LD50 oral 500 mg/kg Rat CAS: 141-43-5	LD50 dermal 1025 mg/kg Rabbit	LC50 inhalation 11 mg/L (4 h) Rat
d-limonene	LD50 oral 4400 mg/kg Rat CAS: 5989-27-5	LD50 dermal 5100 mg/kg Rabbit	LC50 inhalation Non-applicable
tetrasodium ethylene diamine tetraacetate	LD50 oral 1700 mg/kg Rat CAS: 64-02-8	LD50 dermal Non-applicable	LC50 inhalation Non-applicable

Acute Toxicity Estimate (ATE mix):

ATE mix Ingredient(s) of unknown toxicity

Oral 2246.39 mg/kg (Calculation method) 28.78 %
Dermal 9472.25 mg/kg (Calculation method) 33.49 %
Inhalation 89.01 mg/L (4 h) (Calculation method) 41.76 %

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

	Identification	Acute toxicity	Species	Genus
Ethanediol	LC50 53000 mg/L (96 h)	Pimephales promelas Fish CAS: 107-21-1	EC50 51000 mg/L (48 h)	Daphnia magna Crustacean
				EC50 24000 mg/L (168 h)
				Selenastrum capricornutum Algae
2-aminoethanol	LC50 349 mg/L (96 h)	Cyprinus carpio Fish CAS: 141-43-5	EC50 65 mg/L (48 h)	Daphnia magna Crustacean
				EC50 22 mg/L (72 h)
				Scenedesmus subspicatus Algae

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Identification Acute toxicity Species Genus
 tetrasodium ethylene diamine tetraacetate LC50 121 mg/L (96 h) Lepomis macrochirus Fish CAS: 64-02-8 EC50 140 mg/L (48 h) Daphnia magna Crustacean EC50 Non-applicable
 sodium hydroxide LC50 189 mg/L (48 h) Leuciscus idus Fish CAS: 1310-73-2 EC50 33 mg/L Crangon crangon Crustacean EC50 Non-applicable
 d-limonene LC50 0.702 mg/L (96 h) Pimephales promelas Fish CAS: 5989-27-5 EC50 0.577 mg/L (48 h) Daphnia magna Crustacean EC50 Non-applicable

12.2 Persistence and degradability:

Identification Degradability Biodegradability
 Ethanediol BOD5 0.47 g O2/g Concentration 100 mg/L CAS: 107-21-1 COD 1.29 g O2/g Period 14 days BOD5/COD 0.36 % Biodegradable 90 %
 2-aminoethanol BOD5 Non-applicable Concentration 20 mg/L CAS: 141-43-5 COD Non-applicable Period 21 days BOD5/COD Non-applicable % Biodegradable 90 %
 d-limonene BOD5 Non-applicable Concentration Non-applicable CAS: 5989-27-5 COD Non-applicable Period 28 days BOD5/COD Non-applicable % Biodegradable 100 %

12.3 Bioaccumulative potential:

Identification Bioaccumulation potential
 Ethanediol BCF 10
 CAS: 107-21-1 Pow Log -1.36 Potential Low
 2-aminoethanol BCF 3
 CAS: 141-43-5 Pow Log -1.31 Potential Low
 tetrasodium ethylene diamine tetraacetate BCF 2
 CAS: 64-02-8 Pow Log -13
 Potential Low
 d-limonene BCF 660
 CAS: 5989-27-5 Pow Log 4.83
 Potential High

12.4 Mobility in soil:

Identification Absorption/desorption Volatility
 Ethanediol Koc 0 Henry 1.327E-1 Pa·m³/mol CAS: 107-21-1 Conclusion Very High Dry soil No Surface tension 4.989E-2 N/m (77 °F) Moist soil No
 2-aminoethanol Koc 0.27 Henry 3.7E-5 Pa·m³/mol CAS: 141-43-5 Conclusion Very High Dry soil No Surface tension 5.025E-2 N/m (77 °F) Moist soil No
 tetrasodium ethylene diamine tetraacetate Koc 1046 Henry 0E+0 Pa·m³/mol CAS: 64-02-8 Conclusion Low Dry soil No Surface tension Non-applicable Moist soil No
 d-limonene Koc 6324 Henry 2533.13 Pa·m³/mol CAS: 5989-27-5 Conclusion Immobile Dry soil Yes Surface tension 2.675E-2 N/m (77 °F) Moist soil Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

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Not described

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

14.1

UN number: UN1824

14.2

UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3

Transport hazard class(es): 8

Labels: 8

14.4

Packing group, if applicable: II

14.5 Marine pollutant: No

14.6

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 39-18:

14.1

UN number: UN1824

14.2

UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3

Transport hazard class(es): 8

Labels: 8

14.4

Packing group, if applicable: II

14.5 Marine pollutant: No

14.6

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2020:

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14.1

UN number: UN1824

14.2

UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3

Transport hazard class(es): 8

Labels: 8

14.4

Packing group, if applicable: II

14.5 Marine pollutant: No

14.6

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

15.1 Safety, health and environmental regulations specific for the product in question:

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): Ethanediol
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Ethanediol
The Toxic Substances Control Act (TSCA) : Ethanediol ; 2-aminoethanol ; 4-Nonylphenol, branched, ethoxylated ; tetrasodium ethylene diamine tetraacetate ; sodium hydroxide ; d-limonene
Massachusetts RTK - Substance List: Ethanediol ; sodium hydroxide
New Jersey Worker and Community Right-to-Know Act: Ethanediol ; 2-aminoethanol ; sodium hydroxide
New York RTK - Substance list: Ethanediol ; 2-aminoethanol ; sodium hydroxide
Pennsylvania Worker and Community Right-to-Know Law: Ethanediol ; 2-aminoethanol ; sodium hydroxide
CANADA-Domestic Substances List (DSL): Ethanediol ; 2-aminoethanol ; 4-Nonylphenol, branched, ethoxylated ; tetrasodium ethylene diamine tetraacetate ; sodium hydroxide ; d-limonene
CANADA-Non-Domestic Substances List (NDSL): Non-applicable
NTP (National Toxicology Program): Non-applicable
Minnesota - Hazardous substances ERTK: Ethanediol ; 2-aminoethanol ; sodium hydroxide
Rhode Island - Hazardous substances RTK: Ethanediol ; 2-aminoethanol ; sodium hydroxide
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): Ethanediol (5000 pounds) ; sodium hydroxide (1000 pounds)

Relevant instructions for use:

Application Dilution Ratios
Strongest Weakest Average ml per car / application
Touchless In-Bay, Friction & Hybrid Systems
1:100 1:150 1:120 20-40
Self-Serve Presoak (4-7 mls per min), Prep
Guns (3-6 mls per min), Hi Pressure Soap (7-25 mls per min),
1:150 1:200 1:180
Required strength of product dilution will vary depending on cleaning conditions and type and condition of equipment used. Use Specific Gravity 1.09 in calculation of the usage.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Toxic Substances Control Act (TSCA)
Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

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Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H318: Causes serious eye damage

H335: May cause respiratory irritation

H317: May cause an allergic skin reaction

H314: Causes severe skin burns and eye damage

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 3: H226 - Flammable liquid and vapour

Flam. Liq. 4: H227 - Combustible liquid

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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UF265 - Body Shampoo 265 Neutral

1.1 GHS Product identifier: UF265 - Body Shampoo 265 Neutral

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Chemical cleaning products

High foaming liquid detergent mixtures for car washes

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: Cleaning Systems, Inc.

1997 American Blvd

54115 De Pere - United States

Phone.: 9203372175 - Fax: 9203379410

chemcompliance@cleaningsystemsinc.com

http://cleaningsystemsinc.com

1.4 Emergency phone number: 1-800-424-9300 or 1-703-527-3887

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

29 CFR 1910.1200:

Danger



Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed

Eye Dam. 1: H318 - Causes serious eye damage

Skin Irrit. 2: H315 - Causes skin irritation

Precautionary statements:

P264: Wash thoroughly after use

P270: Do not eat, drink or smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face protection

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310: Immediately call a poison center/doctor

P330: Rinse mouth

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Substances that contribute to the classification

Anionic Surfactants; Sodium Alkylsulfonates; Ethanediol; 2-butoxyethanol

Acute Toxicity Estimate (ATE mix):

24.99 % (oral), 24.99 % (dermal), 61.9 % (inhalation) of the mixture consists of ingredient(s) of unknown

toxicity 2.3 Other hazards which do not result in classification:

Non-applicable



UF265 - Body Shampoo 265 Neutral

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification Chemical name/Classification Concentration CAS: Proprietary **Anionic Surfactants**

Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger **15 - <35 %**

CAS: Proprietary **Sodium Alkylsulfonates**

Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger **15 - <35 %**

CAS: 107-21-1 **Ethanediol**

Acute Tox. 4: H302 - Warning **15 - <35 %**

CAS: 111-76-2 **2-butoxyethanol**

Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning **5 - <10 %**

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product. **By ingestion/aspiration:**

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest. **4.2 Most important symptoms/effects, acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

5.1 Suitable (and unsuitable) extinguishing media:

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Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection

6.3) 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: -4 °F

Maximum Temp.: 120 °F

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B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection

10.5 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification Environmental limits

2-butoxyethanol 8-hour TWA PEL 50 ppm 240 mg/m³ CAS: 111-76-2 Ceiling Values - TWA

PEL

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands

Pictogram PPE Remarks

Protective gloves against minor risks

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical

protection gloves. Use gloves in accordance with manufacturer's use limitations

Mandatory hand

and OSHA standard 1910.138 (29CFR)

protection

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

D.- Ocular and facial protection

Pictogram PPE Remarks

Panoramic glasses against splash/projections.

Clean daily and disinfect periodically according to the manufacturer's instructions.

Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

Mandatory face
protection

E.- Bodily protection

Pictogram PPE Remarks

Work clothing Replace before any evidence of deterioration.

Anti-slip work shoes Replace before any evidence of deterioration.

F.- Additional emergency measures

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ANSI Z358-1
ISO 3864-1:2002DIN 12 899
ISO 3864-1:2002

Emergency shower

Eyewash stations

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Liquid

Appearance: Viscous

Color: Purple

Odor: Mild

Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 265 °F

Vapour pressure at 68 °F: 1917 Pa

Vapour pressure at 122 °F: 75.84 (10.11 kPa)

Evaporation rate at 68 °F: Non-applicable *

Product description:

Density at 68 °F: 1049.3 kg/m³

Relative density at 68 °F: 1.049

Dynamic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 104 °F: >20.5 cSt

Concentration: Non-applicable *

pH: 8 - 9 at 100 %

Vapour density at 68 °F: Non-applicable *

Partition coefficient n-octanol/water 68 °F: Non-applicable *

Solubility in water at 68 °F: Non-applicable *

Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Flammability:

Flash Point: Non Flammable (>199.4 °F)

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 460 °F

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -



UF265 - Body Shampoo 265 Neutral

Explosive:

Lower explosive limit: Non-applicable *

Upper explosive limit: Non-applicable *

9.2 Other information:

Surface tension at 68 °F: Non-applicable *

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7. **10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. **10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity	Not applicable	Not applicable	Precaution	Precaution	Not applicable
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10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others	Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases
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10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

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- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

IARC: 2-butoxyethanol (3)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification Acute toxicity Genus

Sodium Alkylsulfonates LD50 oral 2290 mg/kg Rat CAS: Proprietary LD50 dermal 6300 mg/kg Rabbit LC50 inhalation Non-applicable

Ethanediol LD50 oral 500 mg/kg Rat CAS: 107-21-1 LD50 dermal 9530 mg/kg Rabbit LC50 inhalation Non-applicable

2-butoxyethanol LD50 oral 1414 mg/kg Rat CAS: 111-76-2 LD50 dermal 1060 mg/kg Rabbit LC50 inhalation 11 mg/L (4 h) Rat

Acute Toxicity Estimate (ATE mix):

ATE mix Ingredient(s) of unknown toxicity

Oral 1818.19 mg/kg (Calculation method) 24.99 %

Dermal 8903.76 mg/kg (Calculation method) 24.99 %

Inhalation 46.93 mg/L (4 h) (Calculation method) 61.9 %

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

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Identification Acute toxicity Species Genus

Sodium Alkylsulfonates LC50 4.2 mg/L (96 h) Brachydanio rerio Fish CAS: Proprietary EC50 4.53 mg/L (48 h) Daphnia magna Crustacean EC50 5.2 mg/L (72 h) Skeletonema costatum Algae
Ethanediol LC50 53000 mg/L (96 h) Pimephales promelas Fish CAS: 107-21-1 EC50 51000 mg/L (48 h) Daphnia magna Crustacean EC50 24000 mg/L (168 h) Selenastrum capricornutum Algae
2-butoxyethanol LC50 1490 mg/L (96 h) Lepomis macrochirus Fish CAS: 111-76-2 EC50 1815 mg/L (48 h) Daphnia magna Crustacean EC50 911 mg/L (72 h) Pseudokirchneriella subcapitata Algae

12.2 Persistence and degradability:

Identification Degradability Biodegradability

Sodium Alkylsulfonates BOD5 Non-applicable Concentration 20 mg/L CAS: Proprietary COD Non-applicable Period 28 days BOD5/COD Non-applicable % Biodegradable 96 %
Ethanediol BOD5 0.47 g O2/g Concentration 100 mg/L CAS: 107-21-1 COD 1.29 g O2/g Period 14 days BOD5/COD 0.36 % Biodegradable 90 %
2-butoxyethanol BOD5 0.71 g O2/g Concentration 100 mg/L CAS: 111-76-2 COD 2.2 g O2/g Period 14 days BOD5/COD 0.32 % Biodegradable 96 %

12.3 Bioaccumulative potential:

Identification Bioaccumulation potential

Sodium Alkylsulfonates BCF 71
CAS: Proprietary Pow Log -1.3

Potential Moderate

Ethanediol BCF 10
CAS: 107-21-1 Pow Log -1.36 Potential Low
2-butoxyethanol BCF 3
CAS: 111-76-2 Pow Log 0.83

Potential Low

12.4 Mobility in soil:

Identification Absorption/desorption Volatility

Sodium Alkylsulfonates Koc 1.6 Henry 6.7E-2 Pa·m³/mol CAS: Proprietary Conclusion Very High Dry soil Yes Surface tension Non-applicable Moist soil Yes
Ethanediol Koc 0 Henry 1.327E-1 Pa·m³/mol CAS: 107-21-1 Conclusion Very High Dry soil No Surface tension 4.989E-2 N/m (77 °F) Moist soil No
2-butoxyethanol Koc 8 Henry 1.621E-1 Pa·m³/mol CAS: 111-76-2 Conclusion Very High Dry soil No Surface tension 2.729E-2 N/m (77 °F) Moist soil Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

13.1 Disposal methods:

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Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

14.1

UN number: Non-applicable

14.2

UN proper shipping name: Non-applicable

14.3

Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4

Packing group, if applicable: Non-applicable

14.5 Environmental hazard: No

14.6

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

14.1

UN number: Non-applicable

14.2

UN proper shipping name: Non-applicable

14.3

Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4

Packing group, if applicable: Non-applicable

14.5 Environmental hazard: No

14.6

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Non-applicable

**Transport in bulk (according to
Annex II of MARPOL 73/78 and
the IBC Code):**

Transport of dangerous goods by air:

With regard to IATA/ICAO 2018:

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14.1

UN number: Non-applicable

14.2

UN proper shipping name: Non-applicable

14.3

Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4

Packing group, if applicable: Non-applicable

14.5 Environmental hazard: No

14.6

**Special precautions which a user needs to be aware of, or needs to comply with, in connection with
transport or conveyance either within or outside their premises**

Physico-Chemical properties: see section 9

14.7 Non-applicable

**Transport in bulk (according to
Annex II of MARPOL 73/78 and
the IBC Code):**

15.1 Safety, health and environmental regulations specific for the product in question:

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): Ethanediol ; 2-butoxyethanol

California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Ethanediol

The Toxic Substances Control Act (TSCA) : Anionic Surfactants ; Sodium Alkylsulfonates ; Ethanediol ;

2-butoxyethanol Massachusetts RTK - Substance List: Ethanediol

New Jersey Worker and Community Right-to-Know Act: Ethanediol ; 2-butoxyethanol

New York RTK - Substance list: Ethanediol ; 2-butoxyethanol

Pennsylvania Worker and Community Right-to-Know Law: Ethanediol ; 2-butoxyethanol

CANADA-Domestic Substances List (DSL): Anionic Surfactants ; Sodium Alkylsulfonates ; Ethanediol ;

2-butoxyethanol CANADA-Non-Domestic Substances List (NDSL): Non-applicable

NTP (National Toxicology Program): Non-applicable

Minnesota - Hazardous substances ERTK: Ethanediol ; 2-butoxyethanol

Rhode Island - Hazardous substances RTK: Ethanediol ; 2-butoxyethanol

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable

Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): Ethanediol (5000 pounds)

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Toxic Substances Control Act (TSCA)

Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H315: Causes skin irritation

H318: Causes serious eye damage

H302: Harmful if swallowed

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

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Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 4: H227 - Combustible liquid

Skin Irrit. 2: H315 - Causes skin irritation

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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UF341 - Conditioner Cherry Blue 341

SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** UF341 - Conditioner Cherry Blue 341
- 1.2 Recommended use of the chemical and restrictions on use:**
 Relevant uses: Chemical cleaning products
 High foaming liquid mixtures for car washes.
 Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
 Cleaning Systems, Inc.
 1997 American Blvd
 54115 De Pere - United States
 Phone.: 9203372175 - Fax: 9203379410
 chemcompliance@cleaningsystemsinc.com
 http://cleaningsystemsinc.com
- 1.4 Emergency phone number:** 1-800-424-9300 or 1-703-527-3887

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
29 CFR 1910.1200:
 Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.
 Eye Dam. 1: Serious eye damage, Category 1, H318
 Skin Irrit. 2: Skin irritation, Category 2, H315
- 2.2 Label elements:**
29 CFR 1910.1200:
Danger
- 
- Hazard statements:**
 Eye Dam. 1: H318 - Causes serious eye damage
 Skin Irrit. 2: H315 - Causes skin irritation
- Precautionary statements:**
 P264: Wash thoroughly after use
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P302+P352: IF ON SKIN: Wash with plenty of soap and water
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310: Immediately call a poison center/doctor
 P332+P313: If skin irritation occurs: Get medical advice/attention
- Substances that contribute to the classification**
 Alkylbenzyl Sodium Sulfonate; 2-butoxyethanol; Tetrasodium ethylenediaminetetraacetate
- Acute Toxicity Estimate (ATE mix):**
 4.94 % (oral), 27.64 % (dermal), 27.64 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity
- 2.3 Other hazards which do not result in classification:**
 Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:**
 Non-applicable
- 3.2 Mixtures:**

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UF341 - Conditioner Cherry Blue 341

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: Proprietary	Alkylbenzyl Sodium Sulfonate Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	15 - <35 %
CAS: 111-76-2	2-butoxyethanol Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning	10 - <15 %
CAS: 64-02-8	Tetrasodium ethylenediaminetetraacetate Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	<5 %

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

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SECTION 5: FIRE-FIGHTING MEASURES (continued)

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: -4 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	Environmental limits		
2-butoxyethanol	8-hour TWA PEL	50 ppm	240 mg/m ³
CAS: 111-76-2	Ceiling Values - TWA PEL		
Sodium hydroxide	8-hour TWA PEL		2 mg/m ³
CAS: 1310-73-2	Ceiling Values - TWA PEL		

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical protection gloves. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

D.- Ocular and facial protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F:	Liquid
Appearance:	Translucent
Color:	Blue
Odor:	Fruity
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	225 °F
Vapour pressure at 68 °F:	2284 Pa
Vapour pressure at 122 °F:	90.28 (12.04 kPa)
Evaporation rate at 68 °F:	Non-applicable *

Product description:

Density at 68 °F:	1038.2 kg/m ³
Relative density at 68 °F:	1.038
Dynamic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 104 °F:	Non-applicable *
Concentration:	Non-applicable *
pH:	9 at 100 %
Vapour density at 68 °F:	Non-applicable *
Partition coefficient n-octanol/water 68 °F:	Non-applicable *
Solubility in water at 68 °F:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

Flammability:

Flash Point:	Non Flammable (>199.4 °F)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	460 °F
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Explosive:

Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *

9.2 Other information:

Surface tension at 68 °F:	Non-applicable *
---------------------------	------------------

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

IARC: 2-butoxyethanol (3); Brilliant blue FCF (C.I.4290/C.I. Acid Blue 9) (3); Benzyl acetate (3); Coumarin (3)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
2-butoxyethanol CAS: 111-76-2	LD50 oral	1414 mg/kg	Rat
	LD50 dermal	1060 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (4 h)	Rat
Alkylbenzyl Sodium Sulfonate CAS: Proprietary	LD50 oral	500 mg/kg (ATEi)	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Tetrasodium ethylenediaminetetraacetate CAS: 64-02-8	LD50 oral	1700 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	2094.61 mg/kg (Calculation method)	4.94 %
Dermal	6788.22 mg/kg (Calculation method)	27.64 %
Inhalation	70.44 mg/L (4 h) (Calculation method)	27.64 %

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Identification	Acute toxicity		Species	Genus
2-butoxyethanol CAS: 111-76-2	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Species	Genus
Tetrasodium ethylenediaminetetraacetate CAS: 64-02-8	LC50	121 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	140 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
2-butoxyethanol CAS: 111-76-2	BOD5	0.71 g O2/g	Concentration	100 mg/L
	COD	2.2 g O2/g	Period	14 days
	BOD5/COD	0.32	% Biodegradable	96 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
2-butoxyethanol CAS: 111-76-2	BCF	3
	Pow Log	0.83
	Potential	Low
Tetrasodium ethylenediaminetetraacetate CAS: 64-02-8	BCF	2
	Pow Log	-13
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2-butoxyethanol CAS: 111-76-2	Koc	8	Henry	1.621E-1 Pa·m³/mol
	Conclusion	Very High	Dry soil	No
	Surface tension	2.729E-2 N/m (77 °F)	Moist soil	Yes
Tetrasodium ethylenediaminetetraacetate CAS: 64-02-8	Koc	1046	Henry	0E+0 Pa·m³/mol
	Conclusion	Low	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

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SECTION 14: TRANSPORT INFORMATION (continued)

- | | |
|--|----------------|
| 14.1 UN number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group, if applicable: | Non-applicable |
| 14.5 Environmental hazard: | No |
| 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

- | | |
|--|----------------|
| 14.1 UN number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group, if applicable: | Non-applicable |
| 14.5 Environmental hazard: | No |
| 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:

- | | |
|--|----------------|
| 14.1 UN number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group, if applicable: | Non-applicable |
| 14.5 Environmental hazard: | No |
| 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations specific for the product in question:**

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SECTION 15: REGULATORY INFORMATION (continued)

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): 2-butoxyethanol
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable
The Toxic Substances Control Act (TSCA) : Alkylbenzyl Sodium Sulfonate ; 2-butoxyethanol ; Tetrasodium ethylenediaminetetraacetate
Massachusetts RTK - Substance List: Non-applicable
New Jersey Worker and Community Right-to-Know Act: 2-butoxyethanol
New York RTK - Substance list: 2-butoxyethanol
Pennsylvania Worker and Community Right-to-Know Law: 2-butoxyethanol
CANADA-Domestic Substances List (DSL): Alkylbenzyl Sodium Sulfonate ; 2-butoxyethanol ; Tetrasodium ethylenediaminetetraacetate
CANADA-Non-Domestic Substances List (NDSL): Non-applicable
NTP (National Toxicology Program): Non-applicable
Minnesota - Hazardous substances ERTK: 2-butoxyethanol
Rhode Island - Hazardous substances RTK: 2-butoxyethanol
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Toxic Substances Control Act (TSCA)
Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

H318: Causes serious eye damage

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 4: H227 - Combustible liquid

Skin Irrit. 2: H315 - Causes skin irritation

STOT SE 3: H335 - May cause respiratory irritation

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

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SECTION 16: OTHER INFORMATION (continued)

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET



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1.1 GHS Product identifier: UF342 - Conditioner Cherry Red 342

Other means of identification:

Not applicable (N/A)

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Chemical cleaning products

High foaming liquid mixtures for car washes.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: National Carwash Solutions

1997 American Blvd

54115 De Pere - United States

Phone: 9203372175 - Fax: 9203379410

<http://cleaningsystemsinc.com>

1.4 Emergency phone number: 1-800-424-9300 or 1-703-527-3887

2.1 Classification of the substance or mixture:

NFPA:

Health Hazards: 3

Flammability Hazards: 2

Instability Hazards: 0

Special Hazards: Not applicable (N/A)

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332

Eye Dam. 1: Serious eye damage, Category 1, H318

Flam. Liq. 4: Flammable liquids, Category 4, H227

Repr. 2: Reproductive toxicity, Category 2, H361

Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

NFPA:

29 CFR 1910.1200:

Danger

Hazard statements:

Acute Tox. 4: H332 - Harmful if inhaled.

Eye Dam. 1: H318 - Causes serious eye damage.

Flam. Liq. 4: H227 - Combustible liquid.

Repr. 2: H361 - Suspected of damaging fertility or the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation.

Precautionary statements:

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P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280: Wear protective gloves/protective clothing/eye protection/protective footwear.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313: IF exposed or concerned: Get medical advice/attention.
 P370+P378: In case of fire: Use ABC powder extinguisher to put it out.
 P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

Alkylbenzyl Sodium Sulfonate; 2-butoxyethanol; tetrasodium ethylene diamine tetraacetate; Sodium 4(or 5)-methyl-1H benzotriazolide

Acute Toxicity Estimate (ATE mix):

3.06 % (oral), 25.76 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity

Additional labeling:

Keep out of the reach of children

2.3 Hazards not otherwise classified (HNOC):

Not applicable (N/A)

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification Chemical name/Classification Concentration CAS: Proprietary **Alkylbenzyl Sodium Sulfonate**

Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger **15 - <35 %**

CAS: 111-76-2 **2-butoxyethanol**

Acute Tox. 3: H331; Acute Tox. 4: H302; Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Danger **10 - <15 %**

CAS: 64-02-8 **tetrasodium ethylene diamine tetraacetate**

Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger **<5 %**

CAS: 64665-57-2 **Sodium 4(or 5)-methyl-1H-benzotriazolide**

Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 2: H361; Skin Corr. 1B: H314 - Danger **<5 %**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

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Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not applicable (N/A)

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Combustible liquid. If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water. **6.3 Methods and materials for containment and cleaning up:**

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For accidental releases in excess of reportable quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection

6.3) 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 24.8 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection

10.5 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

2-butoxyethanol 8-hour TWA PEL 50 ppm 240 mg/m³ CAS: 111-76-2 Ceiling Values - TWA

Identification Occupational exposure limits

PEL

sodium hydroxide 8-hour TWA PEL 2 mg/m³ CAS: 1310-73-2 Ceiling Values - TWA

PEL

US. ACGIH Threshold Limit Values (2022):

2-butoxyethanol TLV-TWA 20 ppm
CAS: 111-76-2 TLV-STEL

Identification Occupational exposure limits

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US. ACGIH Threshold Limit Values (2022):

acetophenone TLV-TWA 10 ppm
CAS: 98-86-2 TLV-STEL
Benzyl acetate TLV-TWA 10 ppm
CAS: 140-11-4 TLV-STEL

Identification Occupational exposure limits

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

2-butoxyethanol PEL 20 ppm 97 mg/m³ CAS: 111-76-2 STEL
sodium hydroxide PEL 2 mg/m³ CAS: 1310-73-2 STEL 2 mg/m³ acetophenone PEL 10 ppm 49 mg/m³ CAS: 98-86-2 STEL
Benzyl acetate PEL 10 ppm 61 mg/m³ CAS: 140-11-4 STEL

Identification Occupational exposure limits

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH

2-butoxyethanol

CAS: 111-76-2 200 mg/g (NULL) Butoxyacetic acid

Identification BEIs® Determinant Sampling Time

(BAA) in urine End of shift

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands

Pictogram PPE Remarks

Protective gloves against minor risks

Mandatory hand

protection

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical

protection gloves. Use gloves in accordance with manufacturer's use limitations

and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram PPE Remarks

Panoramic glasses against splash/projections.

Mandatory face
protection

Clean daily and disinfect periodically according to the manufacturer's instructions.

Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

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Work clothing Replace before any evidence of deterioration.

Anti-slip work shoes Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure Standards Emergency measure Standards

ANSI Z358-1

DIN 12 899

ISO 3864-1:2011, ISO 3864-4:2011

ISO 3864-1:2011, ISO 3864-4:2011

Emergency shower

Eyewash stations

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 12.24 % weight
V.O.C. at 68 °F: 329.68 kg/m³ (329.68 g/L)
Components: Not applicable (N/A)

California Air Resources Board (CARB) - VOC Regulatory:

V.O.C.(weight-percent): 12.24 % weight
V.O.C. at 68 °F: 329.68 kg/m³ (329.68 g/L)

South Coast Air Quality Management District (AQMD) - VOC Regulatory:

V.O.C.(weight-percent): 12.24 % weight
V.O.C. at 68 °F: 329.68 kg/m³ (329.68 g/L)

Ozone Transport Commission (OTC) Rules - VOC Regulatory:

V.O.C.(weight-percent): 12.24 % weight
V.O.C. at 68 °F: 329.68 kg/m³ (329.68 g/L)

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Liquid

Appearance: Translucent

Color: Red

Odor: Fruity

Odour threshold: Not applicable (N/A) *

Volatility:

Boiling point at atmospheric pressure: 226 °F

Vapour pressure at 68 °F: 2281 Pa

Vapour pressure at 122 °F: 12023.33 Pa (12.02 kPa)

*Not relevant due to the nature of the product, not providing information property of its hazards.

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Evaporation rate at 68 °F: Not applicable (N/A) *

Product description:

Density at 68 °F: 1040.8 kg/m³

Relative density at 68 °F: 1.041

Dynamic viscosity at 68 °F: Not applicable (N/A) *

Kinematic viscosity at 68 °F: Not applicable (N/A) *

Kinematic viscosity at 104 °F: Not applicable (N/A) *

Concentration: Not applicable (N/A) *

pH: 8 - 10 (at 100 %)

Vapour density at 68 °F: Not applicable (N/A) *

Partition coefficient n-octanol/water 68 °F: Not applicable (N/A) *

Solubility in water at 68 °F: Not applicable (N/A) *

Solubility properties: Not applicable (N/A) *

Decomposition temperature: Not applicable (N/A) *

Melting point/freezing point: Not applicable (N/A) *

Flammability:

Flash Point: 162 °F

Flammability (solid, gas): Not applicable (N/A) *

Autoignition temperature: 377 °F

Lower flammability limit: Not applicable (N/A) *

Upper flammability limit: Not applicable (N/A) *

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Not applicable (N/A) *

Oxidising properties: Not applicable (N/A) *

Corrosive to metals: Not applicable (N/A) *

Heat of combustion: Not applicable (N/A) *

Aerosols-total percentage (by mass) of flammable

Not applicable (N/A) *

components:

Other safety characteristics:

Surface tension at 68 °F: Not applicable (N/A) *

Refraction index: Not applicable (N/A) *

*Not relevant due to the nature of the product, not providing information property of its hazards.

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. **10.4 Conditions to avoid:**



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Applicable for handling and storage at room temperature:

Shock and friction Contact with air Increase in temperature Sunlight Humidity Not applicable Not applicable Risk of combustion Avoid direct impact Not applicable

10.5 Incompatible materials:

Acids Water Oxidising materials Combustible materials Others Avoid strong acids Not applicable Avoid direct impact Not applicable Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: 2-butoxyethanol (3); Benzyl acetate (3); Coumarin (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Suspected of damaging fertility or the unborn child

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

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- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not applicable (N/A)

Specific toxicology information on the substances:

	Identification	Acute toxicity	Genus
2-butoxyethanol	LD50 oral 1200 mg/kg (ATEi) Rat CAS: 111-76-2	LD50 dermal 3000 mg/kg Rabbit	LC50 inhalation 3 mg/L (ATEi)
Alkylbenzyl Sodium Sulfonate	LD50 oral 500 mg/kg (ATEi) CAS: Proprietary	LD50 dermal Not applicable (N/A)	LC50 inhalation Not applicable (N/A)
tetrasodium ethylene diamine tetraacetate	LD50 oral 1700 mg/kg Rat CAS: 64-02-8	LD50 dermal Not applicable (N/A)	LC50 inhalation Not applicable (N/A)

Acute Toxicity Estimate (ATE mix):

ATE mix Ingredient(s) of unknown toxicity

Oral 2033.9 mg/kg (Calculation method) 3.06 %
 Dermal >5000 mg/kg (Calculation method) Non-applicable
 Inhalation 19.71 mg/L (4 h) (Calculation method) 25.76 %

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

	Identification	Concentration	Species	Genus
2-butoxyethanol	LC50 1490 mg/L (96 h) Lepomis macrochirus Fish CAS: 111-76-2	EC50 1815 mg/L (48 h) Daphnia magna Crustacean	EC50 911 mg/L (72 h) Pseudokirchneriella subcapitata Algae	
tetrasodium ethylene diamine tetraacetate	LC50 121 mg/L (96 h) Lepomis macrochirus Fish CAS: 64-02-8	EC50 140 mg/L (48 h) Daphnia magna Crustacean	EC50 Not applicable (N/A)	

Chronic toxicity:

	Identification	Concentration	Species	Genus
2-butoxyethanol	NOEC 100 mg/L Danio rerio Fish CAS: 111-76-2	NOEC 100 mg/L Daphnia magna Crustacean	tetrasodium ethylene diamine tetraacetate	NOEC 25.7 mg/L Danio rerio Fish CAS: 64-02-8
				NOEC 25 mg/L Daphnia magna Crustacean

12.2 Persistence and degradability:

Substance-specific information:

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2-butoxyethanol BOD5 0.71 g O2/g Concentration 100 mg/L CAS: 111-76-2 COD 2.2 g O2/g Period 14 days BOD5/COD 0.32 %
Biodegradable 96 %

12.3 Bioaccumulative potential:

Substance-specific information:

2-butoxyethanol BCF 3
CAS: 111-76-2 Pow Log 0.83

tetrasodium ethylene diamine tetraacetate BCF 2
CAS: 64-02-8 Pow Log -13

Identification Bioaccumulation potential

Potential Low

Potential Low

12.4 Mobility in soil:

2-butoxyethanol Koc 8 Henry 1.621E-1 Pa·m³/mol CAS: 111-76-2 Conclusion Very High Dry soil No Surface tension 2.729E-2 N/m (77 °F) Moist soil Yes
tetrasodium ethylene diamine tetraacetate Koc 1046 Henry 0E+0 Pa·m³/mol CAS: 64-02-8 Conclusion Low Dry soil No Surface tension Not applicable (N/A) Moist soil No

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

13.1 Disposal methods:

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.

State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

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- 14.1 UN number:** Not applicable (N/A)
14.2 UN proper shipping name: Not applicable (N/A)
14.3 Transport hazard class(es): Not applicable (N/A)
Labels: Not applicable (N/A)
14.4 Packing group, if applicable: Not applicable (N/A)
14.5 Marine pollutant: No
14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises
Physico-Chemical properties: see section 9

- 14.7 Transport in bulk (according to**
Not applicable (N/A)
Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

- 14.1 UN number:** Not applicable (N/A)
14.2 UN proper shipping name: Not applicable (N/A)
14.3 Transport hazard class(es): Not applicable (N/A)
Labels: Not applicable (N/A)
14.4 Packing group, if applicable: Not applicable (N/A)
14.5 Marine pollutant: No
14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Special regulations: Not applicable (N/A)

EmS Codes:

Physico-Chemical properties: see section 9

Limited quantities: Not applicable (N/A)

Segregation group: Not applicable (N/A)

- 14.7 Transport in bulk (according to**
Not applicable (N/A)
Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

- 14.1 UN number:** Not applicable (N/A)
14.2 UN proper shipping name: Not applicable (N/A)
14.3 Transport hazard class(es): Not applicable (N/A)
Labels: Not applicable (N/A)
14.4 Packing group, if applicable: Not applicable (N/A)
14.5 Marine pollutant: No
14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

- 14.7 Transport in bulk (according to**
Not applicable (N/A)
Annex II of MARPOL 73/78 and the IBC Code):

15.1 Safety, health and environmental regulations specific for the product in question:



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- CALIFORNIA LABOR CODE - The Hazardous Substances List: *2-butoxyethanol (111-76-2)*
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Not applicable (N/A)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Not applicable (N/A) - CANADA-Domestic Substances List (DSL): *Alkylbenzyl Sodium Sulfonate (Proprietary)* ; *2-butoxyethanol (111-76-2)* ; *tetrasodium ethylene diamine tetraacetate (64-02-8)* ; *Sodium 4(or 5)-methyl-1H-benzotriazole (64665-57-2)* - CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *2-butoxyethanol (111-76-2)* - 1 lb
- Hazardous Air Pollutants (Clean Air Act): *2-butoxyethanol (111-76-2)*
- Massachusetts RTK - Substance List: *2-butoxyethanol (111-76-2)*
- Minnesota - Hazardous substances ERTK: *2-butoxyethanol (111-76-2)*
- New Jersey Worker and Community Right-to-Know Act: *2-butoxyethanol (111-76-2)*
- New York RTK - Substance list: *2-butoxyethanol (111-76-2)*
- NTP (National Toxicology Program): Not applicable (N/A)
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Not applicable (N/A)
- Pennsylvania Worker and Community Right-to-Know Law: *2-butoxyethanol (111-76-2)*
- Rhode Island - Hazardous substances RTK: *2-butoxyethanol (111-76-2)*
- The Toxic Substances Control Act (TSCA) : *Alkylbenzyl Sodium Sulfonate (Proprietary)* ; *2-butoxyethanol (111-76-2)* ; *tetrasodium ethylene diamine tetraacetate (64-02-8)* ; *Sodium 4(or 5)-methyl-1H-benzotriazole (64665-57-2)* - Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *2-butoxyethanol (111-76-2)* **Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H315: Causes skin irritation.

H318: Causes serious eye damage.

H361: Suspected of damaging fertility or the unborn child.

H332: Harmful if inhaled.

H227: Combustible liquid.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 3: H331 - Toxic if inhaled.

Acute Tox. 4: H302 - Harmful if swallowed.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Flam. Liq. 4: H227 - Combustible liquid.

Repr. 2: H361 - Suspected of damaging fertility or the unborn child.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

STOT SE 3: H335 - May cause respiratory irritation.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

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Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

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Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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UF343 - Conditioner Cherry Yellow 343

1.1 GHS Product identifier: UF343 - Conditioner Cherry Yellow 343

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Chemical cleaning products

High foaming liquid mixtures for car washes.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: Cleaning Systems, Inc.

1997 American Blvd

54115 De Pere - United States

Phone.: 9203372175 - Fax: 9203379410

chemcompliance@cleaningsystemsinc.com

http://cleaningsystemsinc.com

1.4 Emergency phone number: 1-800-424-9300 or 1-703-527-3887

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Irrit. 2: Skin irritation, Category 2, H315

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

29 CFR 1910.1200:

Danger



Hazard statements:

Eye Dam. 1: H318 - Causes serious eye damage

Skin Irrit. 2: H315 - Causes skin irritation

STOT SE 3: H335 - May cause respiratory irritation

Precautionary statements:

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face protection

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310: Immediately call a poison center/doctor

P403+P233: Store in a well-ventilated place. Keep container tightly closed

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Substances that contribute to the classification

Alkylbenzyl Sodium Sulfonate; 2-butoxyethanol; Tetrasodium ethylenediaminetetraacetate; C.I. Acid Yellow

36 Acute Toxicity Estimate (ATE mix):

5.75 % (oral), 30.63 % (dermal), 30.63 % (inhalation) of the mixture consists of ingredient(s) of unknown

toxicity 2.3 Other hazards which do not result in classification:

Non-applicable



UF343 - Conditioner Cherry Yellow 343

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification Chemical name/Classification Concentration CAS: Proprietary **Alkylbenzyl Sodium Sulfonate**

Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning **15 - <35 %**

CAS: 111-76-2 **2-butoxyethanol**

Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning **10 - <15 %**

CAS: 64-02-8 **Tetrasodium ethylenediaminetetraacetate**

Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger **<5 %**

CAS: 587-98-4 **C.I. Acid Yellow 36**

Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning **<5 %**

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

5.1 Suitable (and unsuitable) extinguishing media:

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Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection

6.3) 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: -4 °F

Maximum Temp.: 120 °F

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B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection

10.5 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification Environmental limits

2-butoxyethanol 8-hour TWA PEL 50 ppm 240 mg/m³ CAS: 111-76-2 Ceiling Values - TWA

PEL

Sodium hydroxide 8-hour TWA PEL 2 mg/m³ CAS: 1310-73-2 Ceiling Values - TWA

PEL

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands

Pictogram PPE Remarks

Protective gloves against minor risks

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical

protection gloves. Use gloves in accordance with manufacturer's use limitations

and OSHA standard 1910.138 (29CFR)

Mandatory hand

protection

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

D.- Ocular and facial protection

Pictogram PPE Remarks

Panoramic glasses against splash/projections.

Clean daily and disinfect periodically according to the manufacturer's instructions.

Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

Mandatory face
protection

E.- Bodily protection

Pictogram PPE Remarks

Work clothing Replace before any evidence of deterioration.

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Anti-slip work shoes Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure Standards Emergency measure Standards

ANSI Z358-1
ISO 3864-1:2002

DIN 12 899
ISO 3864-1:2002

Emergency shower

Eyewash stations

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Liquid

Appearance: Translucent

Color: Yellow

Odor: Fruity

Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 225 °F

Vapour pressure at 68 °F: 2284 Pa

Vapour pressure at 122 °F: 90.29 (12.04 kPa)

Evaporation rate at 68 °F: Non-applicable *

Product description:

Density at 68 °F: 1044.9 kg/m³

Relative density at 68 °F: 1.045

Dynamic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 104 °F: Non-applicable *

Concentration: Non-applicable *

pH: 8 - 10 at 100 %

Vapour density at 68 °F: Non-applicable *

Partition coefficient n-octanol/water 68 °F: Non-applicable *

Solubility in water at 68 °F: Non-applicable *

Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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Flammability:

Flash Point: Non Flammable (>199.4 °F)

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 460 °F

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

Explosive:

Lower explosive limit: Non-applicable *

Upper explosive limit: Non-applicable *

9.2 Other information:

Surface tension at 68 °F: Non-applicable *

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7. **10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. **10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity	Not applicable	Not applicable	Precaution	Precaution	Not applicable
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10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others	Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases
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10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

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- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.

- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.

- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

IARC: 2-butoxyethanol (3)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages. G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

	Identification	Acute toxicity	Genus
2-butoxyethanol	LD50 oral 1414 mg/kg Rat CAS: 111-76-2	LD50 dermal 1060 mg/kg Rabbit	LC50 inhalation 11 mg/L (4 h) Rat
Alkylbenzyl Sodium Sulfonate	LD50 oral 500 mg/kg (ATEi) CAS: Proprietary	LD50 dermal Non-applicable	LC50 inhalation Non-applicable
Tetrasodium ethylenediaminetetraacetate	LD50 oral 1700 mg/kg Rat CAS: 64-02-8	LD50 dermal Non-applicable	LC50 inhalation Non-applicable

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Identification Acute toxicity Genus

C.I.Acid Yellow 36 LD50 oral 5100 mg/kg Rat CAS: 587-98-4 LD50 dermal Non-applicable

LC50 inhalation Non-applicable

Acute Toxicity Estimate (ATE mix):

ATE mix Ingredient(s) of unknown toxicity

Oral 2116.78 mg/kg (Calculation method) 5.75 %

Dermal 6507.74 mg/kg (Calculation method) 30.63 %

Inhalation 67.53 mg/L (4 h) (Calculation method) 30.63 %

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Identification Acute toxicity Species Genus

2-butoxyethanol LC50 1490 mg/L (96 h) Lepomis macrochirus Fish CAS: 111-76-2 EC50 1815 mg/L (48 h) Daphnia magna Crustacean EC50 911 mg/L (72 h) Pseudokirchneriella subcapitata Algae

Tetrasodium ethylenediaminetetraacetate LC50 121 mg/L (96 h) Lepomis macrochirus Fish CAS: 64-02-8 EC50 140 mg/L (48 h) Daphnia magna Crustacean EC50 Non-applicable

12.2 Persistence and degradability:

Identification Degradability Biodegradability

2-butoxyethanol BOD5 0.71 g O2/g Concentration 100 mg/L CAS: 111-76-2 COD 2.2 g O2/g Period 14 days BOD5/COD 0.32 %
Biodegradable 96 %

12.3 Bioaccumulative potential:

Identification Bioaccumulation potential

2-butoxyethanol BCF 3
CAS: 111-76-2 Pow Log 0.83

Potential Low

Tetrasodium ethylenediaminetetraacetate BCF 2
CAS: 64-02-8 Pow Log -13

Potential Low

12.4 Mobility in soil:

Identification Absorption/desorption Volatility

2-butoxyethanol Koc 8 Henry 1.621E-1 Pa·m³/mol CAS: 111-76-2 Conclusion Very High Dry soil No Surface tension 2.729E-2 N/m (77 °F) Moist soil Yes

Tetrasodium ethylenediaminetetraacetate Koc 1046 Henry 0E+0 Pa·m³/mol CAS: 64-02-8 Conclusion Low Dry soil No Surface tension Non-applicable Moist soil No

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

13.1 Disposal methods:

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Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

14.1

UN number: Non-applicable

14.2

UN proper shipping name: Non-applicable

14.3

Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4

Packing group, if applicable: Non-applicable

14.5 **Environmental hazard:** No

14.6

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

14.1

UN number: Non-applicable

14.2

UN proper shipping name: Non-applicable

14.3

Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4

Packing group, if applicable: Non-applicable

14.5 **Environmental hazard:** No

14.6

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and

the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:

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14.1

UN number: Non-applicable

14.2

UN proper shipping name: Non-applicable

14.3

Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4

Packing group, if applicable: Non-applicable

14.5 Environmental hazard: No

14.6

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

15.1 Safety, health and environmental regulations specific for the product in question:

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): 2-butoxyethanol

California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable

The Toxic Substances Control Act (TSCA) : Alkylbenzyl Sodium Sulfonate ; 2-butoxyethanol ; Tetrasodium

ethylenediaminetetraacetate ; C.I.Acid Yellow 36

Massachusetts RTK - Substance List: Non-applicable

New Jersey Worker and Community Right-to-Know Act: 2-butoxyethanol

New York RTK - Substance list: 2-butoxyethanol

Pennsylvania Worker and Community Right-to-Know Law: 2-butoxyethanol

CANADA-Domestic Substances List (DSL): Alkylbenzyl Sodium Sulfonate ; 2-butoxyethanol ; Tetrasodium

ethylenediaminetetraacetate ; C.I.Acid Yellow 36

CANADA-Non-Domestic Substances List (NDSL): Non-applicable

NTP (National Toxicology Program): Non-applicable

Minnesota - Hazardous substances ERTK: 2-butoxyethanol

Rhode Island - Hazardous substances RTK: 2-butoxyethanol

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable

Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302):

Non-applicable **Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Toxic Substances Control Act (TSCA)

Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H315: Causes skin irritation

H318: Causes serious eye damage

H335: May cause respiratory irritation

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

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Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 4: H227 - Combustible liquid

Skin Irrit. 2: H315 - Causes skin irritation

STOT SE 3: H335 - May cause respiratory irritation

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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UF400 - Drying Agent 400

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1.1 GHS Product identifier: UF400 - Drying Agent 400

Other means of identification:

Not applicable (N/A)

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Chemical cleaning products

Quaternary ammonium compounds-mineral oil mixture, for use as a drying agent in commercial car washes. Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: National Carwash Solutions

1997 American Blvd

54115 De Pere - United States

Phone: 9203372175 - Fax: 9203379410

<http://cleaningsystemsinc.com>

1.4 Emergency phone number: 1-800-424-9300 or 1-703-527-3887

2.1 Classification of the substance or mixture:

NFPA:

Health Hazards: 3

Flammability Hazards: 1

Instability Hazards: 0

Special Hazards: Not applicable (N/A)

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332

Asp. Tox. 1: Aspiration hazard, Category 1, H304

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Corr. 1B: Skin corrosion, Category 1B, H314

Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 Label elements:

NFPA:

29 CFR 1910.1200:

Danger

Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H332 - Harmful if inhaled.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Precautionary statements:

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P280: Wear protective gloves/protective clothing/eye protection/protective footwear.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

Distillates (petroleum), hydrotreated middle, <20.5 cSt@40°C; Quaternary Ammonium Compounds; Alkoxylated Fatty Amine, Quaternary Ammonium Chloride; 2-butoxyethanol

Acute Toxicity Estimate (ATE mix):

35.65 % (oral), 69 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity

Additional labeling:

Keep out of the reach of children

2.3 Hazards not otherwise classified (HNOC):

Not applicable (N/A)

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification Chemical name/Classification Concentration CAS: 64742-46-7 **Distillates (petroleum), hydrotreated middle, <20.5 cSt@40°C**

Asp. Tox. 1: H304 - Danger **15 - <35 %**

CAS: Proprietary **Quaternary Ammonium Compounds**

Acute Tox. 4: H302; Skin Corr. 1B: H314 - Danger **15 - <35 %**

CAS: Non-applicable **Alkoxylated Fatty Amine, Quaternary Ammonium Chloride**

Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger **5 - <10 %**

CAS: 111-76-2 **2-butoxyethanol**

Acute Tox. 3: H331; Acute Tox. 4: H302; Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Danger **5 - <10 %**

Siloxanes and Silicones, dimethyl, 3-[3-[(3-coco amidopropyl)dimethylammonio]- 2-hydroxypropoxy]propyl group-terminated, acetates (salts)

<5 %

CAS: 134737-05-6

Skin Sens. 1: H317 - Warning

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

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Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product. **By ingestion/aspiration:**

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest. **4.2 Most important symptoms/effects, acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not applicable (N/A)

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

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Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

For accidental releases in excess of reportable quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection

6.3) 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 24.8 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection

10.5 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

2-butoxyethanol 8-hour TWA PEL 50 ppm 240 mg/m³ CAS: 111-76-2 Ceiling Values - TWA

chloromethane 8-hour TWA PEL 100 ppm

CAS: 74-87-3 Ceiling Values - TWA

Identification Occupational exposure limits

PEL

PEL 200 ppm

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US. ACGIH Threshold Limit Values (2022):

2-butoxyethanol TLV-TWA 20 ppm
CAS: 111-76-2 TLV-STEL
ε-caprolactam TLV-TWA 1 mg/m³ CAS: 105-60-2 TLV-STEL 3 mg/m³ chloromethane TLV-TWA 50 ppm
CAS: 74-87-3 TLV-STEL 100 ppm

Identification Occupational exposure limits

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

2-butoxyethanol PEL 20 ppm 97 mg/m³ CAS: 111-76-2 STEL
ε-caprolactam PEL 1 mg/m³ CAS: 105-60-2 STEL 3 mg/m³ chloromethane PEL 50 ppm 105 mg/m³ CAS: 74-87-3 STEL 100 ppm 210 mg/m³

Identification Occupational exposure limits

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH

2-butoxyethanol

CAS: 111-76-2 200 mg/g (NULL) Butoxyacetic acid

Identification BEIs® Determinant Sampling Time

(BAA) in urine End of shift

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands

Pictogram PPE Remarks

Protective gloves against minor risks

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical

protection gloves. Use gloves in accordance with manufacturer's use limitations

and OSHA standard 1910.138 (29CFR)

Mandatory hand

protection

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram PPE Remarks

Panoramic glasses against splash/projections.

Clean daily and disinfect periodically according to the manufacturer's instructions.

Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

Mandatory face

protection

E.- Bodily protection

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Work clothing Replace before any evidence of deterioration.

Anti-slip work shoes Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure Standards Emergency measure Standards

ANSI Z358-1

DIN 12 899

ISO 3864-1:2011, ISO 3864-4:2011

ISO 3864-1:2011, ISO 3864-4:2011

Emergency shower

Eyewash stations

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 12.67 % weight
V.O.C. at 68 °F: 154.41 kg/m³ (154.41 g/L)
Components: Not applicable (N/A)

California Air Resources Board (CARB) - VOC Regulatory:

V.O.C.(weight-percent): 12.67 % weight
V.O.C. at 68 °F: 154.41 kg/m³ (154.41 g/L)

South Coast Air Quality Management District (AQMD) - VOC Regulatory:

V.O.C.(weight-percent): 12.67 % weight
V.O.C. at 68 °F: 154.41 kg/m³ (154.41 g/L)

Ozone Transport Commission (OTC) Rules - VOC Regulatory:

V.O.C.(weight-percent): 12.67 % weight
V.O.C. at 68 °F: 154.41 kg/m³ (154.41 g/L)

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Liquid

Appearance: Transparent

Color: Red

Odor: Not available

Odour threshold: Not applicable (N/A) *

Volatility:

Boiling point at atmospheric pressure: 317 °F

Vapour pressure at 68 °F: 1949 Pa

Vapour pressure at 122 °F: 10279.39 Pa (10.28 kPa)

*Not relevant due to the nature of the product, not providing information property of its hazards.

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Evaporation rate at 68 °F: Not applicable (N/A) *

Product description:

Density at 68 °F: 941 kg/m³

Relative density at 68 °F: 0.941

Dynamic viscosity at 68 °F: Not applicable (N/A) *

Kinematic viscosity at 68 °F: Not applicable (N/A) *

Kinematic viscosity at 104 °F: <20.5 mm²/s

Concentration: Not applicable (N/A) *

pH: Not applicable (N/A) *

Vapour density at 68 °F: Not applicable (N/A) *

Partition coefficient n-octanol/water 68 °F: Not applicable (N/A) *

Solubility in water at 68 °F: Not applicable (N/A) *

Solubility properties: Not applicable (N/A) *

Decomposition temperature: Not applicable (N/A) *

Melting point/freezing point: Not applicable (N/A) *

Flammability:

Flash Point: 208 °F

Flammability (solid, gas): Not applicable (N/A) *

Autoignition temperature: 460 °F

Lower flammability limit: Not applicable (N/A) *

Upper flammability limit: Not applicable (N/A) *

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Not applicable (N/A) *

Oxidising properties: Not applicable (N/A) *

Corrosive to metals: Not applicable (N/A) *

Heat of combustion: Not applicable (N/A) *

Aerosols-total percentage (by mass) of flammable

Not applicable (N/A) *

components:

Other safety characteristics:

Surface tension at 68 °F: Not applicable (N/A) *

Refraction index: Not applicable (N/A) *

*Not relevant due to the nature of the product, not providing information property of its hazards.

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. **10.4 Conditions to avoid:**



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Applicable for handling and storage at room temperature:

Shock and friction Contact with air Increase in temperature Sunlight Humidity Not applicable Not applicable Precaution Precaution Not applicable

10.5 Incompatible materials:

Acids Water Oxidising materials Combustible materials Others Avoid strong acids Not applicable Precaution Not applicable Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: 2-butoxyethanol (3); ε-caprolactam (3); chloromethane (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

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- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

Other information:

Not applicable (N/A)

Specific toxicology information on the substances:

	Identification	Acute toxicity	Genus
2-butoxyethanol	LD50 oral 1200 mg/kg (ATEi) Rat CAS: 111-76-2	LD50 dermal 3000 mg/kg Rabbit	LC50 inhalation 3 mg/L (ATEi)
Quaternary Ammonium Compounds	LD50 oral 960 mg/kg Rat CAS: Proprietary	LD50 dermal Not applicable (N/A)	LC50 inhalation Not applicable (N/A)
Alkoxylated Fatty Amine, Quaternary Ammonium Chloride	LD50 oral 500 mg/kg (ATEi) CAS: Non-applicable	LD50 dermal Not applicable (N/A)	LC50 inhalation Not applicable (N/A)

Acute Toxicity Estimate (ATE mix):

Oral 1642.26 mg/kg (Calculation method) 35.65 %
 Dermal >5000 mg/kg (Calculation method) Non-applicable
 Inhalation 15.5 mg/L (4 h) (Calculation method) 69 %

ATE mix Ingredient(s) of unknown toxicity

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Quaternary Ammonium Compounds LC50 Not applicable (N/A)
 CAS: Proprietary EC50 Not applicable (N/A)

Identification Concentration Species Genus

2-butoxyethanol LC50 1490 mg/L (96 h) Lepomis macrochirus Fish CAS: 111-76-2 EC50 1815 mg/L (48 h) Daphnia magna Crustacean EC50 911 mg/L (72 h) Pseudokirchneriella subcapitata Algae

Chronic toxicity:

2-butoxyethanol NOEC 100 mg/L Danio rerio Fish CAS: 111-76-2 NOEC 100 mg/L Daphnia magna Crustacean

Identification Concentration Species Genus

degradability:

Substance-specific information:

12.2 Persistence and

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		Identification Degradability Biodegradability
Quaternary Ammonium Compounds	BOD ₅ Not applicable	(N/A) Concentration Not applicable (N/A)
CAS: Proprietary	COD Not applicable	(N/A) Period 28 days
BOD ₅ /COD Not applicable		(N/A) % Biodegradable 82 %
2-butoxyethanol	BOD ₅ 0.71 g O ₂ /g Concentration 100 mg/L CAS: 111-76-2 COD 2.2 g O ₂ /g Period 14 days BOD ₅ /COD 0.32 %	Biodegradable 96 %
12.3 Bioaccumulative potential:		
Substance-specific information:		
2-butoxyethanol	BCF 3	Identification Bioaccumulation potential
CAS: 111-76-2	Pow Log 0.83	Potential Low
12.4 Mobility in soil:		
		Identification Absorption/desorption Volatility
2-butoxyethanol	K _{oc} 8 Henry 1.621E-1 Pa·m ³ /mol CAS: 111-76-2 Conclusion Very High Dry soil No Surface tension 2.729E-2 N/m (77 °F) Moist soil Yes	
12.5 Results of PBT and vPvB assessment:		
Non-applicable		
12.6 Other adverse effects:		
Not described		

13.1 Disposal methods:	
The characteristic of corrosivity per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D002 could apply.	
Waste management (disposal and evaluation):	
Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly.Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.See section 6 for further information about Accidental release measures.	
Regulations related to waste management:	
Legislation related to waste management:	
40 CFR Solid Wastes - Part 239 through 282.	
State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.	

Transport of dangerous goods by land:	
With regard to 49 CFR on the Transport of Dangerous Goods:	

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14.1 UN number: UN2735

14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Alkoxylated Fatty Amine, Quaternary Ammonium Chloride)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group, if applicable: III

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

Limited quantities: 5 L

14.7 Transport in bulk (according to

Not applicable (N/A)

Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1 UN number: UN2735

14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Alkoxylated Fatty Amine, Quaternary Ammonium Chloride)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group, if applicable: III

14.5 Marine pollutant: No

Special precautions which a user needs to be aware of, or needs to comply with, in connection with 14.6

transport or conveyance either within or outside their premises

Special regulations: 274, 223

EmS Codes: F-A, S-B

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: SGG18

14.7 Transport in bulk (according to

Not applicable (N/A)

Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

14.1 UN number: UN2735

14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Alkoxylated Fatty Amine, Quaternary Ammonium Chloride)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group, if applicable: III

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according to

Not applicable (N/A)

Annex II of MARPOL 73/78 and the IBC Code):

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15.1 Safety, health and environmental regulations specific for the product in question:

- CALIFORNIA LABOR CODE - The Hazardous Substances List: *2-butoxyethanol (111-76-2)*
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Not applicable (N/A)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Not applicable (N/A) - CANADA-Domestic Substances List (DSL): *Distillates (petroleum), hydrotreated middle, <20.5 cSt@40°C (64742-46-7) ; Quaternary Ammonium Compounds (Proprietary) ; Alkoxylated Fatty Amine, Quaternary Ammonium Chloride (Non-applicable) ; 2-butoxyethanol (111-76-2)*
- CANADA-Non-Domestic Substances List (NDSL): *Siloxanes and Silicones, dimethyl, 3-[3-[(3-coco amidopropyl)dimethylammonio]- 2-hydroxypropoxy]propyl group-terminated, acetates (salts) (134737-05-6)*
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *2-butoxyethanol (111-76-2) - 1 lb*
- Hazardous Air Pollutants (Clean Air Act): *2-butoxyethanol (111-76-2)*
- Massachusetts RTK - Substance List: *2-butoxyethanol (111-76-2)*
- Minnesota - Hazardous substances ERTK: *2-butoxyethanol (111-76-2)*
- New Jersey Worker and Community Right-to-Know Act: *2-butoxyethanol (111-76-2)*
- New York RTK - Substance list: *2-butoxyethanol (111-76-2)*
- NTP (National Toxicology Program): Not applicable (N/A)
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Not applicable (N/A)
- Pennsylvania Worker and Community Right-to-Know Law: *2-butoxyethanol (111-76-2)*
- Rhode Island - Hazardous substances RTK: *2-butoxyethanol (111-76-2)*
- The Toxic Substances Control Act (TSCA) : *Distillates (petroleum), hydrotreated middle, <20.5 cSt@40°C (64742-46-7) ; Quaternary Ammonium Compounds (Proprietary) ; Alkoxylated Fatty Amine, Quaternary Ammonium Chloride (Non-applicable) ; 2-butoxyethanol (111-76-2) ; Siloxanes and Silicones, dimethyl, 3-[3-[(3-coco amidopropyl)dimethylammonio]- 2-hydroxypropoxy]propyl group-terminated, acetates (salts) (134737-05-6)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *2-butoxyethanol (111-76-2)*

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H302: Harmful if swallowed.

H332: Harmful if inhaled.

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

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Acute Tox. 3: H331 - Toxic if inhaled.
Acute Tox. 4: H302 - Harmful if swallowed.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2A: H319 - Causes serious eye irritation.
Flam. Liq. 4: H227 - Combustible liquid.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer

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Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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1.1 GHS Product identifier: UF461 - C-Force Ceramic Orange-Vanilla

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Chemical cleaning products

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: Cleaning Systems, Inc.

1997 American Blvd

54115 De Pere - United States

Phone.: 9203372175 - Fax: 9203379410

chemcompliance@cleaningsystemsinc.com

http://cleaningsystemsinc.com

1.4 Emergency phone number: 1-800-424-9300 or 1-703-527-3887

2.1 Classification of the substance or mixture:

NFPA:

Health Hazards: 3

Flammability Hazards: 0

Instability Hazards: 0

Special Hazards: Non-applicable

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Carc. 2: Carcinogenicity, Category 2, H351

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Irrit. 2: Skin irritation, Category 2, H315

Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 Label elements:

NFPA:



29 CFR 1910.1200:

Danger



Hazard statements:

Carc. 2: H351 - Suspected of causing cancer

Eye Dam. 1: H318 - Causes serious eye damage

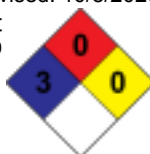
Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction

Precautionary statements:

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UF461 - C-Force™ Ceramic Orange-Vanilla

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P201: Obtain special instructions before use
P264: Wash thoroughly after use
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313: IF exposed or concerned: Get medical advice/attention
P310: Immediately call a poison center/doctor
P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Substances that contribute to the classification

Surfactant Mixture; 4-Nonylphenol, branched, ethoxylated; d-limonene; Benzyl benzoate

Acute Toxicity Estimate (ATE mix):

23 % (oral), 32.24 % (dermal), 39.65 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity **Additional labeling:**

Keep out of the reach of children

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration	CAS	Non-applicable	Surfactant Mixture
----------------	------------------------------	---------------	-----	----------------	--------------------

	Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	15 - <35 %
--	--	------------

CAS: 127087-87-0	4-Nonylphenol, branched, ethoxylated
------------------	--------------------------------------

Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	5 - <10 %
--	-----------

CAS: 5989-27-5	d-limonene
----------------	------------

Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	5 - <10 %
---	-----------

CAS: 120-51-4	Benzyl benzoate
---------------	-----------------

Acute Tox. 4: H302 - Warning	<5 %
------------------------------	------

CAS: 111-76-2	2-butoxyethanol
---------------	-----------------

Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning	<5 %
---	------

CAS: 79-14-1	Glycolic acid
--------------	---------------

Acute Tox. 4: H332; Eye Dam. 1: H318; Skin Corr. 1B: H314 - Danger	<5 %
--	------

CAS: 121-33-5	Vanillin
---------------	----------

Eye Irrit. 2: H319 - Warning	<5 %
------------------------------	------

CAS: 5131-66-8	3-butoxypropan-2-ol
----------------	---------------------

Eye Irrit. 2: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning	<5 %
---	------

CAS: 123-35-3	7-methyl-3-methyleneocta-1,6-diene
---------------	------------------------------------

	<5 %
--	------

Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Carc. 2: H351; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Danger

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.



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4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

5.1 Suitable (and unsuitable) extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

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6.2 Environmental precautions:

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection

6.3) 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 24.8 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection

10.5 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

2-butoxyethanol 8-hour TWA PEL 50 ppm 240 mg/m³ CAS: 111-76-2 Ceiling Values - TWA

Identification Occupational exposure limits

PEL

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

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As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands

Pictogram PPE Remarks

Mandatory hand

protection

Protective gloves against minor risks

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical

protection gloves. Use gloves in accordance with manufacturer's use limitations

and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

D.- Ocular and facial protection

Pictogram PPE Remarks

Mandatory face
protection

Panoramic glasses against splash/projections.

Clean daily and disinfect periodically according to the manufacturer's instructions.

Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram PPE Remarks

Work clothing Replace before any evidence of deterioration.

Anti-slip work shoes Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure Standards Emergency measure Standards

ANSI Z358-1

ISO 3864-1:2011, ISO 3864-4:2011

DIN 12 899

ISO 3864-1:2011, ISO 3864-4:2011

Emergency shower

Eyewash stations

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

National volatile organic compound emission standards (40 CFR Part 59):

V.O.C. (Subpart C - Consumer): 9.19 % weight

V.O.C. (Coatings) at 68 °F: 0.09 kg/m³ (0.09 g/L)

*Not relevant due to the nature of the product, not providing information property of its hazards.

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9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Liquid

Appearance: Not available

Color: Orange

Odor: Not available

Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: Non-applicable *

Vapour pressure at 68 °F: Non-applicable *

Vapour pressure at 122 °F: Non-applicable *

Evaporation rate at 68 °F: Non-applicable *

Product description:

Density at 68 °F: 1 kg/m³

Relative density at 68 °F: 0.981

Dynamic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 104 °F: Non-applicable *

Concentration: Non-applicable *

pH: Non-applicable *

Vapour density at 68 °F: Non-applicable *

Partition coefficient n-octanol/water 68 °F: Non-applicable *

Solubility in water at 68 °F: Non-applicable *

Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Flammability:

Flash Point: Non Flammable (>199.4 °F)

Flammability (solid, gas): Non-applicable *

Autoignition temperature: Non-applicable *

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

Explosive:

Lower explosive limit: Non-applicable *

Upper explosive limit: Non-applicable *

9.2 Other information:

Surface tension at 68 °F: Non-applicable *

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7. **10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. **10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction Contact with air Increase in temperature Sunlight Humidity Not applicable Not applicable Precaution Precaution Not applicable

10.5 Incompatible materials:

Acids Water Oxidising materials Combustible materials Others Not applicable Not applicable Avoid direct impact Not applicable Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
IARC: 2-butoxyethanol (3); d-limonene (3); 7-methyl-3-methylenoocta-1,6-diene (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

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E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

	Identification	Acute toxicity	Genus
2-butoxyethanol	LD50 oral 1414 mg/kg Rat CAS: 111-76-2	LD50 dermal 1060 mg/kg Rabbit	LC50 inhalation 11 mg/L (4 h) Rat
Benzyl benzoate	LD50 oral 1500 mg/kg Rat CAS: 120-51-4	LD50 dermal 4000 mg/kg Rabbit	LC50 inhalation Non-applicable
d-limonene	LD50 oral 4400 mg/kg Rat CAS: 5989-27-5	LD50 dermal 5100 mg/kg Rabbit	LC50 inhalation Non-applicable
Glycolic acid	LD50 oral 2040 mg/kg Rat CAS: 79-14-1	LD50 dermal Non-applicable	LC50 inhalation 11 mg/L (4 h) (ATEi)
3-butoxypropan-2-ol	LD50 oral 3771 mg/kg Rat CAS: 5131-66-8	LD50 dermal Non-applicable	LC50 inhalation Non-applicable
4-Nonylphenol, branched, ethoxylated	LD50 oral 500 mg/kg (ATEi) CAS: 127087-87-0	LD50 dermal Non-applicable	LC50 inhalation Non-applicable
Vanillin	LD50 oral 3500 mg/kg Rat CAS: 121-33-5	LD50 dermal Non-applicable	LC50 inhalation Non-applicable

Acute Toxicity Estimate (ATE mix):

Oral 5190.63 mg/kg (Calculation method) 23 %
Dermal 35912.8 mg/kg (Calculation method) 32.24 %
Inhalation 177.03 mg/L (4 h) (Calculation method) 39.65 %

ATE mix Ingredient(s) of unknown toxicity

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

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	Identification	Acute toxicity	Species	Genus
4-Nonylphenol, branched, ethoxylated	LC50 84.7 mg/L (96 h)	Lepomis macrochirus Fish CAS: 127087-87-0	EC50 23 mg/L (48 h)	Daphnia magna
		Crustacean	EC50 19.5 mg/L (72 h)	Desmodesmus subspicatus Algae
d-limonene	LC50 0.702 mg/L (96 h)	Pimephales promelas Fish CAS: 5989-27-5	EC50 0.577 mg/L (48 h)	Daphnia magna
		Crustacean	EC50	Non-applicable
2-butoxyethanol	LC50 1490 mg/L (96 h)	Lepomis macrochirus Fish CAS: 111-76-2	EC50 1815 mg/L (48 h)	Daphnia magna
		Crustacean	EC50 911 mg/L (72 h)	Pseudokirchneriella subcapitata Algae
Glycollic acid	LC50 164 mg/L (96 h)	Lepomis macrochirus Fish CAS: 79-14-1	EC50 141 mg/L (48 h)	Daphnia magna
		Crustacean	EC50 44 mg/L (72 h)	Selenastrum capricornutum Algae
Vanillin	LC50 57 mg/L (96 h)	Pimephales promelas Fish CAS: 121-33-5	EC50	Non-applicable
		EC50	Non-applicable	
3-butoxypropan-2-ol	LC50 560 mg/L (96 h)	Poecilia reticulada Fish CAS: 5131-66-8	EC50 1436 mg/L (48 h)	Daphnia magna
		Crustacean	EC50	Non-applicable
7-methyl-3-methyleneocta-1,6-diene	LC50 0.1 - 1 mg/L (96 h)	Fish CAS: 123-35-3	EC50 0.1 - 1 mg/L	Crustacean
		EC50 0.1 - 1 mg/L	Algae	

12.2 Persistence and degradability:

	Identification	Degradability	Biodegradability
4-Nonylphenol, branched, ethoxylated	BOD5 Non-applicable	Concentration Non-applicable	CAS: 127087-87-0 COD Non-applicable
			Period 28 days BOD5/COD Non-applicable % Biodegradable 81 %
d-limonene	BOD5 Non-applicable	Concentration Non-applicable	CAS: 5989-27-5 COD Non-applicable
			Period 28 days BOD5/COD Non-applicable % Biodegradable 100 %
2-butoxyethanol	BOD5 0.71 g O2/g	Concentration 100 mg/L	CAS: 111-76-2 COD 2.2 g O2/g
			Period 14 days BOD5/COD 0.32 % Biodegradable 96 %
Glycollic acid	BOD5 Non-applicable	Concentration 100 mg/L	CAS: 79-14-1 COD Non-applicable
			Period 14 days BOD5/COD Non-applicable % Biodegradable 86 %
Vanillin	BOD5 Non-applicable	Concentration 100 mg/L	CAS: 121-33-5 COD Non-applicable
			Period 14 days BOD5/COD Non-applicable % Biodegradable 97 %
3-butoxypropan-2-ol	BOD5 Non-applicable	Concentration 100 mg/L	CAS: 5131-66-8 COD Non-applicable
			Period 28 days BOD5/COD Non-applicable % Biodegradable 89 %
7-methyl-3-methyleneocta-1,6-diene	BOD5 Non-applicable	Concentration 100 mg/L	CAS: 123-35-3 COD Non-applicable
			Period 14 days BOD5/COD Non-applicable % Biodegradable 86 %

12.3 Bioaccumulative potential:

	Identification	Bioaccumulation potential
4-Nonylphenol, branched, ethoxylated	BCF 8	
CAS: 127087-87-0	Pow Log 5.67	
		Potential Low
d-limonene	BCF 660	
CAS: 5989-27-5	Pow Log 4.83	
		Potential High

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Identification Bioaccumulation potential

2-butoxyethanol BCF 3
CAS: 111-76-2 Pow Log 0.83

Potential Low

Glycolic acid BCF 3
CAS: 79-14-1 Pow Log -1.11 Potential Low
Vanillin BCF 6
CAS: 121-33-5 Pow Log 1.37

Potential Low

3-butoxypropan-2-ol BCF 1
CAS: 5131-66-8 Pow Log

Potential Low

7-methyl-3-methyleneocta-1,6-diene BCF 324
CAS: 123-35-3 Pow Log 5.29

Potential High

12.4 Mobility in soil:

Identification Absorption/desorption Volatility

4-Nonylphenol, branched, ethoxylated Koc 427 Henry Non-applicable CAS: 127087-87-0 Conclusion Low Dry soil Non-applicable Surface tension
Non-applicable Moist soil Non-applicabled-limonene Koc 6324 Henry 2533.13 Pa·m³/mol CAS: 5989-27-5 Conclusion Immobile Dry soil Yes Surface tension 2.675E-2 N/m (77 °F) Moist soil
YesBenzyl benzoate Koc Non-applicable Henry Non-applicable CAS: 120-51-4 Conclusion Non-applicable Dry soil Non-applicable Surface tension
4.626E-2 N/m (77 °F) Moist soil Non-applicable2-butoxyethanol Koc 8 Henry 1.621E-1 Pa·m³/mol CAS: 111-76-2 Conclusion Very High Dry soil No Surface tension 2.729E-2 N/m (77 °F) Moist soil
Yes

Vanillin Koc 130 Henry 2.128E-4 Pa·m³/mol CAS: 121-33-5 Conclusion Very High Dry soil No Surface tension Non-applicable Moist soil No

7-methyl-3-methyleneocta-1,6-diene Koc 1300 Henry 6515.2 Pa·m³/mol CAS: 123-35-3 Conclusion Low Dry soil Non-applicable Surface tension
Non-applicable Moist soil Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

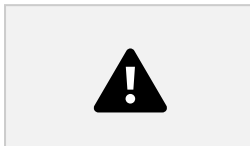
Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

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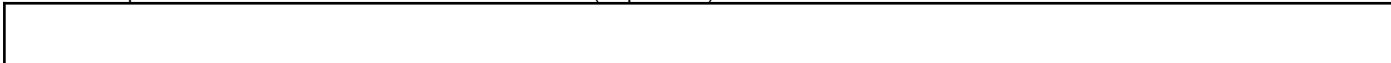
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With regard to 49 CFR on the Transport of Dangerous Goods:

14.1 **UN number:** Non-applicable

14.2 **UN proper shipping name:** Non-applicable

14.3 **Transport hazard class(es):** Non-applicable
Labels: Non-applicable

14.4 **Packing group, if applicable:** Non-applicable

14.5 **Environmental hazard:** No

14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
Physico-Chemical properties: see section 9

14.7 **Transport in bulk (according to**
Limited quantity exemption under inner packaging not over 1.3
Annex II of MARPOL 73/78 and
gallons packed in a strong outer packaging.
the IBC Code):

With regard to IMDG 38-16:

14.1	UN number: Non-applicable
14.2	UN proper shipping name: Non-applicable
14.3	Transport hazard class(es): Non-applicable Labels: Non-applicable
14.4	Packing group, if applicable: Non-applicable
14.5	Environmental hazard: No
14.6	Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises Physico-Chemical properties: see section 9
14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Limited quantity exemption under inner packaging not over 1.3 gallons packed in a strong outer packaging.

With regard to IATA/ICAO 2019:

14.1 **UN number:** Non-applicable

14.2 **UN proper shipping name:** Non-applicable

14.3 **Transport hazard class(es):** Non-applicable
Labels: Non-applicable

14.4 **Packing group, if applicable:** Non-applicable

14.5 **Environmental hazard:** No

14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
Physico-Chemical properties: see section 9

14.7 **Transport in bulk (according to**
Limited quantity exemption under inner packaging not over 1.3
Annex II of MARPOL 73/78 and
gallons packed in a strong outer packaging.
the IBC Code):

15.1 Safety, health and environmental regulations specific for the product in question:

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SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): 2-butoxyethanol
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986):
7-methyl-3-methylenoocta-1,6-diene The Toxic Substances Control Act (TSCA) : d-limonene ; Benzyl benzoate ;
2-butoxyethanol ; Glycollic acid ; Vanillin ; 3- butoxypropan-2-ol ; 7-methyl-3-methylenoocta-1,6-diene
Massachusetts RTK - Substance List: Non-applicable
New Jersey Worker and Community Right-to-Know Act: 2-butoxyethanol
New York RTK - Substance list: 2-butoxyethanol
Pennsylvania Worker and Community Right-to-Know Law: 2-butoxyethanol
CANADA-Domestic Substances List (DSL): d-limonene ; Benzyl benzoate ; 2-butoxyethanol ; Glycollic acid ; Vanillin
; 3- butoxypropan-2-ol ; 7-methyl-3-methylenoocta-1,6-diene
CANADA-Non-Domestic Substances List (NDSL): Non-applicable
NTP (National Toxicology Program): Non-applicable
Minnesota - Hazardous substances ERTK: 2-butoxyethanol
Rhode Island - Hazardous substances RTK: 2-butoxyethanol
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302):
Non-applicable **Specific provisions in terms of protecting people or the environment:**
It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local
circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of
this product.
Other legislation:
The Toxic Substances Control Act (TSCA)
Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H315: Causes skin irritation

H318: Causes serious eye damage

H317: May cause an allergic skin reaction

H351: Suspected of causing cancer

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Acute Tox. 4: H332 - Harmful if inhaled

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

Carc. 2: H351 - Suspected of causing cancer

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 3: H226 - Flammable liquid and vapour

Flam. Liq. 4: H227 - Combustible liquid

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

- CONTINUED ON NEXT PAGE -

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Safety data sheet
according to 29 CFR 1910.1200

**UF461 - C-Force™ Ceramic
Orange-Vanilla**



Date of compilation: 7/24/2020 Revised: 10/8/2020 Version: 7 (Replaced 6)

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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UF500 - Tire & Wheel 500 Green

SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** UF500 - Tire & Wheel 500 Green
- 1.2 Recommended use of the chemical and restrictions on use:**
Relevant uses: Chemical cleaning products
Liquid alkaline detergent mixture for cleaning tires and wheels in commercial car washes.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
Cleaning Systems, Inc.
1997 American Blvd
54115 De Pere - United States
Phone.: 9203372175 - Fax: 9203379410
chemcompliance@cleaningsystemsinc.com
http://cleaningsystemsinc.com
- 1.4 Emergency phone number:** 1-800-424-9300 or 1-703-527-3887

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
29 CFR 1910.1200:
Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1A: Skin corrosion, Category 1A, H314
- 2.2 Label elements:**
29 CFR 1910.1200:
Danger
- 
- Hazard statements:**
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage
- Precautionary statements:**
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P264: Wash thoroughly after use
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310: Immediately call a poison center/doctor
- Substances that contribute to the classification**
Surfactant Mixture ; Sodium Metasilicate; Tetrasodium ethylenediaminetetraacetate; Potassium hydroxide
- Acute Toxicity Estimate (ATE mix):**
20.22 % (oral), 23.52 % (dermal), 23.52 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity
- 2.3 Other hazards which do not result in classification:**
Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:**
Non-applicable

- CONTINUED ON NEXT PAGE -

UF500 - Tire & Wheel 500 Green

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: Proprietary	Surfactant Mixture Acute Tox. 4: H302+H332; Eye Dam. 1: H318; Skin Corr. 1A: H314 - Danger	15 - <35 %
CAS: Non-applicable	Sodium Metasilicate Eye Dam. 1: H318; Met. Corr. 1: H290; Skin Corr. 1B: H314; STOT SE 3: H335 - Danger	<5 %
CAS: 111-76-2	2-butoxyethanol Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning	<5 %
CAS: 64-02-8	Tetrasodium ethylenediaminetetraacetate Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	<5 %
CAS: 1310-58-3	Potassium hydroxide Acute Tox. 4: H302; Skin Corr. 1A: H314 - Danger	<5 %

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

- CONTINUED ON NEXT PAGE -

UF500 - Tire & Wheel 500 Green

SECTION 5: FIRE-FIGHTING MEASURES (continued)

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

The characteristic of corrosivity per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D002 could apply. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

- CONTINUED ON NEXT PAGE -

UF500 - Tire & Wheel 500 Green

SECTION 7: HANDLING AND STORAGE (continued)

Minimum Temp.: -4 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	Environmental limits		
2-butoxyethanol	8-hour TWA PEL	50 ppm	240 mg/m ³
CAS: 111-76-2	Ceiling Values - TWA PEL		
Sodium hydroxide	8-hour TWA PEL		2 mg/m ³
CAS: 1310-73-2	Ceiling Values - TWA PEL		

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical protection gloves. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

D.- Ocular and facial protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.

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UF500 - Tire & Wheel 500 Green

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F:	Liquid
Appearance:	Opaque
Color:	Green
Odor:	Solvent
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	214 °F
Vapour pressure at 68 °F:	2340 Pa
Vapour pressure at 122 °F:	92.48 (12.33 kPa)
Evaporation rate at 68 °F:	Non-applicable *

Product description:

Density at 68 °F:	1066.6 kg/m ³
Relative density at 68 °F:	1.067
Dynamic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 104 °F:	Non-applicable *
Concentration:	Non-applicable *
pH:	>13 at 100 %
Vapour density at 68 °F:	Non-applicable *
Partition coefficient n-octanol/water 68 °F:	Non-applicable *
Solubility in water at 68 °F:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

UF500 - Tire & Wheel 500 Green

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Flammability:

Flash Point:	Non Flammable (>199.4 °F)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	460 °F
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Explosive:

Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *

9.2 Other information:

Surface tension at 68 °F:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Not applicable

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- CONTINUED ON NEXT PAGE -

UF500 - Tire & Wheel 500 Green

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
 - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
IARC: 2-butoxyethanol (3); 2,2',2''-nitritotriethanol (3)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
2-butoxyethanol CAS: 111-76-2	LD50 oral	1414 mg/kg	Rat
	LD50 dermal	1060 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (4 h)	Rat
Tetrasodium ethylenediaminetetraacetate CAS: 64-02-8	LD50 oral	1700 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Potassium hydroxide CAS: 1310-58-3	LD50 oral	388 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

- CONTINUED ON NEXT PAGE -

UF500 - Tire & Wheel 500 Green

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

	ATE mix	Ingredient(s) of unknown toxicity
Oral	12313.53 mg/kg (Calculation method)	20.22 %
Dermal	39352.11 mg/kg (Calculation method)	23.52 %
Inhalation	408.37 mg/L (4 h) (Calculation method)	23.52 %

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Identification	Acute toxicity		Species	Genus
Sodium Metasilicate CAS: Non-applicable	LC50	210 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	216 mg/L (96 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
2-butoxyethanol CAS: 111-76-2	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Tetrasodium ethylenediaminetetraacetate CAS: 64-02-8	LC50	121 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	140 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Potassium hydroxide CAS: 1310-58-3	LC50	80 mg/L (48 h)	Gambusia affinis	Fish
	EC50	Non-applicable		
	EC50	Non-applicable		

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
2-butoxyethanol CAS: 111-76-2	BOD5	0.71 g O2/g	Concentration	100 mg/L
	COD	2.2 g O2/g	Period	14 days
	BOD5/COD	0.32	% Biodegradable	96 %

12.3 Bioaccumulative potential:

Identification		Bioaccumulation potential	
2-butoxyethanol CAS: 111-76-2	BCF	3	
	Pow Log	0.83	
	Potential	Low	
Tetrasodium ethylenediaminetetraacetate CAS: 64-02-8	BCF	2	
	Pow Log	-13	
	Potential	Low	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2-butoxyethanol CAS: 111-76-2	Koc	8	Henry	1.621E-1 Pa·m³/mol
	Conclusion	Very High	Dry soil	No
	Surface tension	2.729E-2 N/m (77 °F)	Moist soil	Yes
Tetrasodium ethylenediaminetetraacetate CAS: 64-02-8	Koc	1046	Henry	0E+0 Pa·m³/mol
	Conclusion	Low	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

- CONTINUED ON NEXT PAGE -

UF500 - Tire & Wheel 500 Green

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:



- | | | |
|------|--|--|
| 14.1 | UN number: | UN3266 |
| 14.2 | UN proper shipping name: | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium Metasilicate) |
| 14.3 | Transport hazard class(es): | 8 |
| | Labels: | 8 |
| 14.4 | Packing group, if applicable: | II |
| 14.5 | Environmental hazard: | No |
| 14.6 | Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| | Physico-Chemical properties: | see section 9 |
| 14.7 | Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

Transport of dangerous goods by sea:

With regard to IMDG 38-16:



- | | | |
|------|--|--|
| 14.1 | UN number: | UN3266 |
| 14.2 | UN proper shipping name: | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium Metasilicate) |
| 14.3 | Transport hazard class(es): | 8 |
| | Labels: | 8 |
| 14.4 | Packing group, if applicable: | II |
| 14.5 | Environmental hazard: | No |
| 14.6 | Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| | Physico-Chemical properties: | see section 9 |
| 14.7 | Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:

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UF500 - Tire & Wheel 500 Green

SECTION 14: TRANSPORT INFORMATION (continued)



- | | |
|--|--|
| 14.1 UN number: | UN3266 |
| 14.2 UN proper shipping name: | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium Metasilicate) |
| 14.3 Transport hazard class(es): | 8 |
| Labels: | 8 |
| 14.4 Packing group, if applicable: | II |
| 14.5 Environmental hazard: | No |
| 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): 2-butoxyethanol
 California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable
 The Toxic Substances Control Act (TSCA) : Sodium Metasilicate ; 2-butoxyethanol ; Tetrasodium ethylenediaminetetraacetate ; Potassium hydroxide
 Massachusetts RTK - Substance List: Potassium hydroxide
 New Jersey Worker and Community Right-to-Know Act: 2-butoxyethanol ; Potassium hydroxide
 New York RTK - Substance list: 2-butoxyethanol ; Potassium hydroxide
 Pennsylvania Worker and Community Right-to-Know Law: 2-butoxyethanol ; Potassium hydroxide
 CANADA-Domestic Substances List (DSL): Sodium Metasilicate ; 2-butoxyethanol ; Tetrasodium ethylenediaminetetraacetate ; Potassium hydroxide
 CANADA-Non-Domestic Substances List (NDSL): Non-applicable
 NTP (National Toxicology Program): Non-applicable
 Minnesota - Hazardous substances ERTK: 2-butoxyethanol ; Potassium hydroxide
 Rhode Island - Hazardous substances RTK: 2-butoxyethanol ; Potassium hydroxide
 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
 Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): Potassium hydroxide (1000 pounds)

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Toxic Substances Control Act (TSCA)
 Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage
 H318: Causes serious eye damage

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

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UF500 - Tire & Wheel 500 Green

SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 4: H302 - Harmful if swallowed
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled
Eye Dam. 1: H318 - Causes serious eye damage
Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 4: H227 - Combustible liquid
Met. Corr. 1: H290 - May be corrosive to metals
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage
Skin Irrit. 2: H315 - Causes skin irritation
STOT SE 3: H335 - May cause respiratory irritation

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

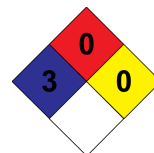
Abbreviations and acronyms:

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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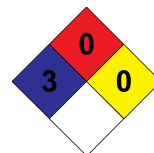
SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** UF505 - High Alkaline Cleaner 505
- 1.2 Recommended use of the chemical and restrictions on use:**
Relevant uses: Chemical cleaning products
Liquid alkaline detergent mixture for cleaning tires and wheels in commercial car washes.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
Cleaning Systems, Inc.
1997 American Blvd
54115 De Pere - United States
Phone.: 9203372175 - Fax: 9203379410
chemcompliance@cleaningsystemsinc.com
http://cleaningsystemsinc.com
- 1.4 Emergency phone number:** 1-800-424-9300 or 1-703-527-3887

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
NFPA:
Health Hazards: 3
Flammability Hazards: 0
Instability Hazards: 0
Special Hazards: Non-applicable
- 29 CFR 1910.1200:**
Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1A: Skin corrosion, Category 1A, H314
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
- 2.2 Label elements:**
NFPA:
- 
- 29 CFR 1910.1200:**
Danger
- 
- 
- Hazard statements:**
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage
STOT SE 3: H335 - May cause respiratory irritation
- Precautionary statements:**

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SECTION 2: HAZARD(S) IDENTIFICATION (continued)

P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310: Immediately call a poison center/doctor
P403+P233: Store in a well-ventilated place. Keep container tightly closed
P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Substances that contribute to the classification

Ethoxylated Alcohol; 2-aminoethanol; tetrasodium ethylene diamine tetraacetate; sodium hydroxide

Acute Toxicity Estimate (ATE mix):

29.2 % (oral), 42.47 % (dermal), 42.47 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity

Additional labeling:

Keep out of the reach of children

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: Proprietary	Ethoxylated Alcohol Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	5 - <10 %
CAS: 141-43-5	2-aminoethanol Acute Tox. 4: H302+H312+H332; Flam. Liq. 4: H227; Skin Corr. 1B: H314 - Danger	5 - <10 %
CAS: 64-02-8	tetrasodium ethylene diamine tetraacetate Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	5 - <10 %
CAS: 1310-73-2	sodium hydroxide Skin Corr. 1A: H314 - Danger	<5 %
CAS: 111-76-2	2-butoxyethanol Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning	<5 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

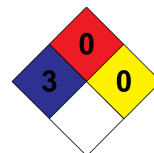
SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

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SECTION 4: FIRST-AID MEASURES (continued)

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

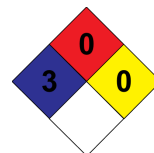
6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

The characteristic of corrosivity per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D002 could apply. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: -4 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	Occupational exposure limits		
	8-hour TWA PEL	50 ppm	240 mg/m ³
2-butoxyethanol CAS: 111-76-2	Ceiling Values - TWA PEL		
2-aminoethanol CAS: 141-43-5	8-hour TWA PEL	3 ppm	6 mg/m ³
	Ceiling Values - TWA PEL		
sodium hydroxide CAS: 1310-73-2	8-hour TWA PEL		2 mg/m ³
	Ceiling Values - TWA PEL		

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical protection gloves. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

D.- Ocular and facial protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

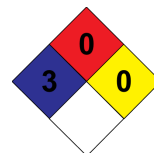
National volatile organic compound emission standards (40 CFR Part 59):

V.O.C. (Subpart C - Consumer):	9.43 % weight
V.O.C. (Coatings) at 68 °F:	100.24 kg/m ³ (100.24 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F:	Liquid
Appearance:	Opaque
Color:	Blue
Odor:	Not available
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	225 °F
Vapour pressure at 68 °F:	2237 Pa
Vapour pressure at 122 °F:	11795.91 Pa (11.8 kPa)
Evaporation rate at 68 °F:	Non-applicable *

Product description:

Density at 68 °F:	1063.3 kg/m³
Relative density at 68 °F:	1.063
Dynamic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 104 °F:	Non-applicable *
Concentration:	Non-applicable *
pH:	>13 at 100 %
Vapour density at 68 °F:	Non-applicable *
Partition coefficient n-octanol/water 68 °F:	Non-applicable *
Solubility in water at 68 °F:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

Flammability:

Flash Point:	Non Flammable (>199.4 °F)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	>460 °F
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Explosive:

Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *

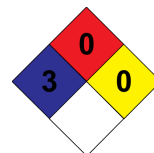
9.2 Other information:

Surface tension at 68 °F:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

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SECTION 10: STABILITY AND REACTIVITY (continued)

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Not applicable

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

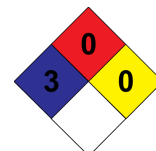
C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
IARC: 2-butoxyethanol (3); 2,2'-iminodiethanol (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
2-butoxyethanol CAS: 111-76-2	LD50 oral	1414 mg/kg	Rat
	LD50 dermal	1060 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (4 h)	Rat
2-aminoethanol CAS: 141-43-5	LD50 oral	500 mg/kg	Rat
	LD50 dermal	1025 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (4 h)	Rat
Ethoxylated Alcohol CAS: Proprietary	LD50 oral	500 mg/kg (ATEi)	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
tetrasodium ethylene diamine tetraacetate CAS: 64-02-8	LD50 oral	1700 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	2016.41 mg/kg (Calculation method)	29.2 %
Dermal	6303.39 mg/kg (Calculation method)	42.47 %
Inhalation	67.12 mg/L (4 h) (Calculation method)	42.47 %

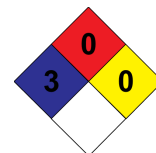
SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Identification	Acute toxicity		Species	Genus
2-aminoethanol CAS: 141-43-5	LC50	349 mg/L (96 h)	Cyprinus carpio	Fish
	EC50	65 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	22 mg/L (72 h)	Scenedesmus subspicatus	Algae
tetrasodium ethylene diamine tetraacetate CAS: 64-02-8	LC50	121 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	140 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Species	Genus
sodium hydroxide CAS: 1310-73-2	LC50	189 mg/L (48 h)	Leuciscus idus	Fish
	EC50	33 mg/L	Crangon crangon	Crustacean
	EC50	Non-applicable		
2-butoxyethanol CAS: 111-76-2	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
2-aminoethanol CAS: 141-43-5	BOD5	Non-applicable	Concentration	20 mg/L
	COD	Non-applicable	Period	21 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %
2-butoxyethanol CAS: 111-76-2	BOD5	0.71 g O2/g	Concentration	100 mg/L
	COD	2.2 g O2/g	Period	14 days
	BOD5/COD	0.32	% Biodegradable	96 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
2-aminoethanol CAS: 141-43-5	BCF	3
	Pow Log	-1.31
	Potential	Low
tetrasodium ethylene diamine tetraacetate CAS: 64-02-8	BCF	2
	Pow Log	-13
	Potential	Low
2-butoxyethanol CAS: 111-76-2	BCF	3
	Pow Log	0.83
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2-aminoethanol CAS: 141-43-5	Koc	0.27	Henry	3.7E-5 Pa·m³/mol
	Conclusion	Very High	Dry soil	No
	Surface tension	5.025E-2 N/m (77 °F)	Moist soil	No
tetrasodium ethylene diamine tetraacetate CAS: 64-02-8	Koc	1046	Henry	0E+0 Pa·m³/mol
	Conclusion	Low	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
2-butoxyethanol CAS: 111-76-2	Koc	8	Henry	1.621E-1 Pa·m³/mol
	Conclusion	Very High	Dry soil	No
	Surface tension	2.729E-2 N/m (77 °F)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

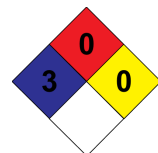
13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

- CONTINUED ON NEXT PAGE -



SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:



- | | | |
|------|--|---------------------------|
| 14.1 | UN number: | UN1824 |
| 14.2 | UN proper shipping name: | SODIUM HYDROXIDE SOLUTION |
| 14.3 | Transport hazard class(es): | 8 |
| | Labels: | 8 |
| 14.4 | Packing group, if applicable: | II |
| 14.5 | Marine pollutant: | No |
| 14.6 | Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| | Physico-Chemical properties: | see section 9 |
| 14.7 | Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

Transport of dangerous goods by sea:

With regard to IMDG 39-18:



- | | | |
|------|--|---------------------------|
| 14.1 | UN number: | UN1824 |
| 14.2 | UN proper shipping name: | SODIUM HYDROXIDE SOLUTION |
| 14.3 | Transport hazard class(es): | 8 |
| | Labels: | 8 |
| 14.4 | Packing group, if applicable: | II |
| 14.5 | Marine pollutant: | No |
| 14.6 | Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| | Physico-Chemical properties: | see section 9 |
| 14.7 | Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

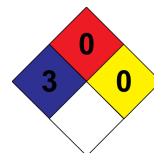
Transport of dangerous goods by air:

With regard to IATA/ICAO 2020:



- | | | |
|------|--|---------------------------|
| 14.1 | UN number: | UN1824 |
| 14.2 | UN proper shipping name: | SODIUM HYDROXIDE SOLUTION |
| 14.3 | Transport hazard class(es): | 8 |
| | Labels: | 8 |
| 14.4 | Packing group, if applicable: | II |
| 14.5 | Marine pollutant: | No |
| 14.6 | Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| | Physico-Chemical properties: | see section 9 |
| 14.7 | Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

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UF505 - High Alkaline Cleaner 505

Date of compilation: 5/13/2019

Revised: 7/22/2020

Version: 2 (Replaced 1)

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): 2-butoxyethanol

California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable

The Toxic Substances Control Act (TSCA) : Ethoxylated Alcohol ; 2-aminoethanol ; tetrasodium ethylene diamine tetraacetate ; sodium hydroxide ; 2-butoxyethanol

Massachusetts RTK - Substance List: sodium hydroxide

New Jersey Worker and Community Right-to-Know Act: 2-aminoethanol ; sodium hydroxide ; 2-butoxyethanol

New York RTK - Substance list: 2-aminoethanol ; sodium hydroxide ; 2-butoxyethanol

Pennsylvania Worker and Community Right-to-Know Law: 2-aminoethanol ; sodium hydroxide ; 2-butoxyethanol

CANADA-Domestic Substances List (DSL): Ethoxylated Alcohol ; 2-aminoethanol ; tetrasodium ethylene diamine tetraacetate ; sodium hydroxide ; 2-butoxyethanol

CANADA-Non-Domestic Substances List (NDSL): Non-applicable

NTP (National Toxicology Program): Non-applicable

Minnesota - Hazardous substances ERTK: 2-aminoethanol ; sodium hydroxide ; 2-butoxyethanol

Rhode Island - Hazardous substances RTK: 2-aminoethanol ; sodium hydroxide ; 2-butoxyethanol

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable

Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): sodium hydroxide (1000 pounds)

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Toxic Substances Control Act (TSCA)

Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

H335: May cause respiratory irritation

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 4: H227 - Combustible liquid

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Skin Irrit. 2: H315 - Causes skin irritation

Advice related to training:

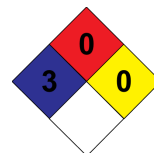
Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

- CONTINUED ON NEXT PAGE -



SECTION 16: OTHER INFORMATION (continued)

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET



Safety data sheet
according to 29 CFR 1910.1200

V38424 - RNX AHS Graphene



Date of compilation: 3/9/2022 Revised: 6/7/2022 Version: 3 (Replaced 2)

1.1 GHS Product identifier: V38424 - RNX AHS Graphene

Other means of identification:

Non-applicable

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Chemical cleaning products

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: National Carwash Solutions

1997 American Blvd

54115 De Pere - United States

Phone: 9203372175 - Fax: 9203379410

<http://cleaningsystemsinc.com>

1.4 Emergency phone number: 1-800-424-9300 or 1-703-527-3887

2.1 Classification of the substance or mixture:

NFPA:

Health Hazards: 3

Flammability Hazards: 0

Instability Hazards: 0

Special Hazards: Non-applicable

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

NFPA:



29 CFR 1910.1200:

Danger



Hazard statements:

Eye Dam. 1: H318 - Causes serious eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Precautionary statements:

P264: Wash thoroughly after use.

P280: Wear protective gloves/protective clothing/eye protection/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a poison center/doctor.

P332+P313: If skin irritation occurs: Get medical advice/attention.

Substances that contribute to the classification

Surfactant Mixture; Glycolic acid

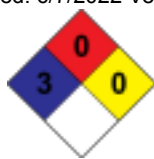
Acute Toxicity Estimate (ATE mix):

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22.6 % (oral), 22.6 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity

Additional labeling:

Keep out of the reach of children

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification Chemical name/Classification Concentration CAS: Non-applicable **Surfactant Mixture**

Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger **15 - <35 %**

CAS: 111-76-2 **2-butoxyethanol**

Acute Tox. 4: H302+H332; Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning **<5 %**

CAS: 79-14-1 **Glycolic acid**

Acute Tox. 4: H332; Eye Dam. 1: H318; Skin Corr. 1B: H314 - Danger **<5 %**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

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Non-applicable

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Maintain order, cleanliness and destroy using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

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Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection

6.3) 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 24.8 °F

Maximum Temp.: 120 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection

10.5 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

2-butoxyethanol 8-hour TWA PEL 50 ppm 240 mg/m³ CAS: 111-76-2 Ceiling Values - TWA

Identification Occupational exposure limits

PEL

US. ACGIH Threshold Limit Values (2022):

2-butoxyethanol TLV-TWA 20 ppm
CAS: 111-76-2 TLV-STEL

Identification Occupational exposure limits

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

2-butoxyethanol PEL 20 ppm 97 mg/m³ CAS: 111-76-2 STEL

Identification Occupational exposure limits

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH

2-butoxyethanol

Identification BEIs® Determinant Sampling Time

CAS: 111-76-2 200 mg/g (NULL) Butoxyacetic acid

(BAA) in urine End of shift

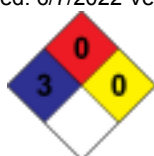
8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

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The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands

Pictogram PPE Remarks

Protective gloves against minor risks

Mandatory hand

protection

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram PPE Remarks

Panoramic glasses against splash/projections.

Mandatory face
protection

E.- Bodily protection

Pictogram PPE Remarks

Work clothing Replace before any evidence of deterioration.

Anti-slip work shoes Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure Standards Emergency measure Standards

ANSI Z358-1

ISO 3864-1:2011, ISO 3864-4:2011

DIN 12 899

ISO 3864-1:2011, ISO 3864-4:2011

Emergency shower

Eyewash stations

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

National volatile organic compound emission standards (40 CFR Part 59):

V.O.C.(weight-percent): 2.8 % weight

V.O.C. at 68 °F: 104.61 kg/m³ (104.61 g/L)

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Liquid

Appearance: Not available

Color: Black

Odor: Not available

*Not relevant due to the nature of the product, not providing information property of its hazards.

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Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: Non-applicable *

Vapour pressure at 68 °F: Non-applicable *

Vapour pressure at 122 °F: Non-applicable *

Evaporation rate at 68 °F: Non-applicable *

Product description:

Density at 68 °F: 1 kg/m³

Relative density at 68 °F: 0.981

Dynamic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 68 °F: Non-applicable *

Kinematic viscosity at 104 °F: Non-applicable *

Concentration: Non-applicable *

pH: Non-applicable *

Vapour density at 68 °F: Non-applicable *

Partition coefficient n-octanol/water 68 °F: Non-applicable *

Solubility in water at 68 °F: Non-applicable *

Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: Non Flammable (>199.4 °F)

Flammability (solid, gas): Non-applicable *

Autoignition temperature: Non-applicable *

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Corrosive to metals: Non-applicable *

Heat of combustion: Non-applicable *

Aerosols-total percentage (by mass) of flammable

Non-applicable *

components:

Other safety characteristics:

Surface tension at 68 °F: Non-applicable *

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

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10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. **10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity	Not applicable	Not applicable	Precaution	Precaution	Not applicable
applicable									

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others	Not applicable	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases
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10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: 2-butoxyethanol (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

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- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

2-butoxyethanol LD50 oral 1200 mg/kg Rat CAS: 111-76-2 LD50 dermal 3000 mg/kg Rabbit LC50 inhalation 11 mg/L (ATEi)
Glycolic acid LD50 oral 2040 mg/kg Rat CAS: 79-14-1 LD50 dermal Non-applicable
LC50 inhalation 11 mg/L (ATEi)

Acute Toxicity Estimate (ATE mix):

ATE mix Ingredient(s) of unknown toxicity

Oral 46440 mg/kg (Calculation method) 22.6 %
Dermal >5000 mg/kg (Calculation method) Non-applicable
Inhalation 227.04 mg/L (4 h) (Calculation method) 22.6 %

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The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

	Identification	Concentration	Species	Genus
2-butoxyethanol	LC50	1490 mg/L (96 h)	Lepomis macrochirus Fish	CAS: 111-76-2 EC50 1815 mg/L (48 h) Daphnia magna Crustacean EC50 911 mg/L (72 h) Pseudokirchneriella subcapitata Algae
Glycollic acid	LC50	164 mg/L (96 h)	Lepomis macrochirus Fish	CAS: 79-14-1 EC50 141 mg/L (48 h) Daphnia magna Crustacean EC50 44 mg/L (72 h) Selenastrum capricornutum Algae

Chronic toxicity:

	Identification	Concentration	Species	Genus
2-butoxyethanol	NOEC	100 mg/L	Danio rerio Fish	CAS: 111-76-2 NOEC 100 mg/L Daphnia magna Crustacean

12.2 Persistence and degradability:

	Identification	Degradability	Biodegradability
2-butoxyethanol	BOD5 0.71 g O2/g Concentration 100 mg/L CAS: 111-76-2 COD 2.2 g O2/g Period 14 days	BOD5/COD 0.32 %	Biodegradable 96 %
Glycollic acid	BOD5 Non-applicable Concentration 100 mg/L CAS: 79-14-1 COD Non-applicable Period 14 days	BOD5/COD Non-applicable %	Biodegradable 86 %

12.3 Bioaccumulative potential:

	Identification	Bioaccumulation potential
2-butoxyethanol	BCF 3 CAS: 111-76-2 Pow Log 0.83	Potential Low
Glycollic acid	BCF 3 CAS: 79-14-1 Pow Log -1.11	Potential Low

12.4 Mobility in soil:

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	Identification	Absorption/desorption	Volatility
2-butoxyethanol	Koc 8 Henry 1.621E-1 Pa·m³/mol CAS: 111-76-2 Conclusion Very High Dry soil No Surface tension 2.729E-2 N/m (77 °F) Moist soil		Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

14.1

UN number: Non-applicable

14.2

UN proper shipping name: Non-applicable

14.3

Transport hazard class(es): Non-applicable

Labels: Non-applicable

14.4

Packing group, if applicable: Non-applicable

14.5 Marine pollutant:

No

14.6

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 39-18:

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14.1 **UN number:** Non-applicable

14.2 **UN proper shipping name:** Non-applicable

14.3 **Transport hazard class(es):** Non-applicable

Labels: Non-applicable

14.4 **Packing group, if applicable:** Non-applicable

14.5 **Marine pollutant:** No

Special precautions which a user needs to be aware of, or needs to comply with, in connection with

14.6 **transport or conveyance either within or outside their premises**

Special regulations: Non-applicable

EmS Codes:

Physico-Chemical properties: see section 9

Limited quantities: Non-applicable

Segregation group: Non-applicable

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:

14.1 **UN number:** Non-applicable

14.2 **UN proper shipping name:** Non-applicable

14.3 **Transport hazard class(es):** Non-applicable

Labels: Non-applicable

14.4 **Packing group, if applicable:** Non-applicable

14.5 **Marine pollutant:** No

14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**

Physico-Chemical properties: see section 9

14.7 Non-applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

15.1 Safety, health and environmental regulations specific for the product in question:

Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): 2-butoxyethanol
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable
The Toxic Substances Control Act (TSCA) : 2-butoxyethanol ; Glycollic acid
Massachusetts RTK - Substance List: 2-butoxyethanol
New Jersey Worker and Community Right-to-Know Act: 2-butoxyethanol
New York RTK - Substance list: 2-butoxyethanol
Pennsylvania Worker and Community Right-to-Know Law: 2-butoxyethanol
CANADA-Domestic Substances List (DSL): 2-butoxyethanol ; Glycollic acid
CANADA-Non-Domestic Substances List (NDSL): Non-applicable
NTP (National Toxicology Program): Non-applicable
Minnesota - Hazardous substances ERTK: 2-butoxyethanol
Rhode Island - Hazardous substances RTK: 2-butoxyethanol
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
Hazardous Air Pollutants (Clean Air Act): 2-butoxyethanol
CALIFORNIA LABOR CODE - The Hazardous Substances List: 2-butoxyethanol
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities:
2-butoxyethanol (1 pounds)

Specific provisions in terms of protecting people or the environment:

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It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H315: Causes skin irritation.

H318: Causes serious eye damage.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

Acute Tox. 4: H332 - Harmful if inhaled.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Fam. Liq. 4: H227 - Combustible liquid.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

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Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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