Safety data sheet
according to 29 CFR 1910.1200

UF400 - Drying Agent 400

Date of compilation: 5/31/2019 Revised: 1/22/2025 Version: 3 (Replaced 2)

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@40ºC; 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@40ºC**

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 administrate 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:

- CONTINUED ON NEXT PAGE -

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 reportables 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 ºF

Maximum Temp.: 120 ºF

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):

Identification	Occupational exposure limits
2-butoxyethanol	8-hour TWA PEL 50 ppm 240 mg/m³ CAS: 111-76-2 Ceiling Values - TWA PEL
chloromethane	8-hour TWA PEL 100 ppm CAS: 74-87-3 Ceiling Values - TWA PEL 200 ppm

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US. ACGIH Threshold Limit Values (2022):

Identification Occupational exposure limits

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

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

Identification Occupational exposure limits

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

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH

Identification	BEIs® Determinant	Sampling Time
2-butoxyethanol		
CAS: 111-76-2 200 mg/g (NULL)	Butoxyacetic acid (BAA) in urine	End of shift

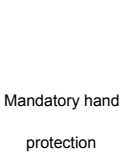
8.2 Appropriate engineering controls:

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

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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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

40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 12.67 % weight

V.O.C. at 68 ºF: 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 ºF: 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 ºF: 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 ºF: 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 ºF: Liquid

Appearance: Transparent

Color: Red

Odor: Not available

Odour threshold: Not applicable (N/A) *

Volatility:

Boiling point at atmospheric pressure: 317 ºF

Vapour pressure at 68 ºF: 1949 Pa

Vapour pressure at 122 ºF: 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 ºF: Not applicable (N/A) *

Product description:

Density at 68 ºF: 941 kg/m³

Relative density at 68 ºF: 0.941

Dynamic viscosity at 68 ºF: Not applicable (N/A) *

Kinematic viscosity at 68 ºF: Not applicable (N/A) *

Kinematic viscosity at 104 ºF: <20.5 mm²/s

Concentration: Not applicable (N/A) *

pH: Not applicable (N/A) *

Vapour density at 68 ºF: Not applicable (N/A) *

Partition coefficient n-octanol/water 68 ºF: Not applicable (N/A) *

Solubility in water at 68 ºF: 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 ºF

Flammability (solid, gas): Not applicable (N/A) *

Autoignition temperature: 460 ºF

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 components: Not applicable (N/A) *

Other safety characteristics:

Surface tension at 68 ºF: 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 (CO_2), 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):

ATE mix Ingredient(s) of unknown toxicity

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 %

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

Quaternary Ammonium Compounds LC50 Not applicable (N/A)
CAS: Proprietary EC50 Not applicable (N/A)

EC50 0.06 mg/L (72 h) N/A 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

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:**

Substance-specific information:

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Identification Degradability Biodegradability

Quaternary Ammonium Compounds BOD5 Not applicable

(N/A) Concentration Not applicable (N/A)

CAS: Proprietary COD Not applicable

(N/A) Period 28 days

BOD5/COD Not applicable

(N/A) % Biodegradable 82 %

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:

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 No Surface tension 2.729E-2 N/m (77 ºF) 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 Annex II of MARPOL 73/78 and the IBC Code):

Not applicable (N/A)

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

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, 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 Annex II of MARPOL 73/78 and the IBC Code):

Not applicable (N/A)

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 Annex II of MARPOL 73/78 and the IBC Code):

Not applicable (N/A)

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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@40ºC (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@40ºC (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)* **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:**

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:

- CONTINUED ON NEXT PAGE -

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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END OF SAFETY DATA SHEET