# Safety data sheet according to 29 CFR 1910.1200

#### 2461 - LustraShield® Clear



Date of compilation: 6/12/2019 Revised: 5/25/2021 Version: 2 (Replaced 1)

#### **SECTION 1: IDENTIFICATION**

1.1 GHS Product identifier: 2461 - LustraShield® Clear

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: 2 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 Flam. Liq. 4: Flammable liquids, Category 4, H227 Repr. 1B: Reproductive toxicity, Category 1B, H360 Skin Corr. 1B: Skin corrosion, Category 1B, H314

#### 2.2 Label elements:

#### NFPA:



### 29 CFR 1910.1200:

### Danger





#### Hazard statements:

Flam. Liq. 4: H227 - Combustible liquid.

Repr. 1B: H360 - May damage fertility or the unborn child.

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

Precautionary statements:

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#### SECTION 2: HAZARD(S) IDENTIFICATION (continued)

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.

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.

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

Quaternary Ammonium Compounds; Quaternary Ammonium Compounds; 2-ethylhexyl 4-(dimethylamino)benzoate

#### Acute Toxicity Estimate (ATE mix):

9.65 % (oral), 20.13 % (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	Quaternary Ammonium Compounds	5 - <10 %
CAO.	Гторпетату	Acute Tox. 4: H302; Skin Corr. 1B: H314 - Danger	> 10%
040	444.70.0	2-butoxyethanol	5 - <10 %
CAS:	111-76-2	Acute Tox. 4: H302+H332; Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning	5-<10%
0.4.0	07.00.0	propan-2-ol	<5 %
CAS:	67-63-0	Eye Irrit. 2A: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	<b>\</b> 5 %
0.4.0	Proprietary	Quaternary Ammonium Compounds	<5 %
CAS:		Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	<b>\</b> 5 %
0.4.0	407007 07 0	4-Nonylphenol, branched, ethoxylated	-E 0/
CAS:	127087-87-0	Acute Tox. 4: H302; Eye Irrit. 2A: H319 - Warning	<5 %
040	04045 00 0	2-ethylhexyl 4-(dimethylamino)benzoate	-E 0/
CAS:	21245-02-3	Repr. 1B: H360 - 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:

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#### SECTION 4: FIRST-AID MEASURES (continued)

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 administrate 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:

# Suitable extinguishing media:

Combustible liquid. If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

#### 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.

# 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. 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 inert medium. Remove 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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#### SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

#### 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:

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

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. Consult section 10 for 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.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 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		mits	
propan-2-ol	8-hour TWA PEL	400 ppm	980 mg/m³
	Ceiling Values - TWA PEL		



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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

Identification Occupational exposure limits		mits	
2-butoxyethanol	8-hour TWA PEL	50 ppm	240 mg/m³
ICAS: 111-76-2	Ceiling Values - TWA PEL		

### US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
propan-2-ol	TLV-TWA	200 ppm	
CAS: 67-63-0	TLV-STEL	400 ppm	
Glycerol	TLV-TWA		10 mg/m³
CAS: 56-81-5	TLV-STEL		
2-butoxyethanol	TLV-TWA	20 ppm	
CAS: 111-76-2	TLV-STEL		·

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

Identification Occupational exposure limits		mits	
propan-2-ol	PEL	400 ppm	980 mg/m³
CAS: 67-63-0	STEL	500 ppm	1225 mg/m³
2-butoxyethanol	PEL	20 ppm	97 mg/m³
CAS: 111-76-2	STEL		

#### **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 (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
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



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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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	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		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

# 40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 7.77 % weight

V.O.C. at 68 °F: 236.83 kg/m3 (236.83 g/L)

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties: 9.1

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:

216 °F Boiling point at atmospheric pressure: Vapour pressure at 68 °F: 2356 Pa

12398.93 Pa (12.4 kPa) Vapour pressure at 122 °F:

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

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Non-applicable \*

Non-applicable \*



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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Non-applicable \* Kinematic viscosity at 68 °F: Kinematic viscosity at 104 °F: Non-applicable \* Concentration: Non-applicable \* :Ha 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 \*

Flammability:

Flash Point: 157 °F

Flammability (solid, gas): Non-applicable \*

Autoignition temperature: 460 °F

Lower flammability limit: Non-applicable \*
Upper flammability limit: Non-applicable \*

Particle characteristics:

Decomposition temperature:

Melting point/freezing point:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Non-applicable \*

Non-applicable \*

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.

### **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.

### 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	Risk of combustion	Avoid direct impact	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

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#### SECTION 10: STABILITY AND REACTIVITY (continued)

#### 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<sub>2</sub>), 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 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: 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: May damage 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:
  - 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.

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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

#### Other information:

Non-applicable

### Specific toxicology information on the substances:

Identification	А	Acute toxicity	
propan-2-ol	LD50 oral	5280 mg/kg	Rat
CAS: 67-63-0	LD50 dermal	12800 mg/kg	Rat
	LC50 inhalation	72.6 mg/L (4 h)	Rat
2-butoxyethanol	LD50 oral	1200 mg/kg	Rat
CAS: 111-76-2	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (ATEi)	
Quaternary Ammonium Compounds	LD50 oral	960 mg/kg	Rat
CAS: Proprietary	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Quaternary Ammonium Compounds	LD50 oral	500 mg/kg (ATEi)	
CAS: Proprietary	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	

# Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity	
Oral 5556.58 mg/kg (Calculation method) 9.		9.65 %	
Dermal >5000 mg/kg (Calculation method)		Non-applicable	
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):

# Acute toxicity:

Identification	Concentration		Concentration Species		Genus
Quaternary Ammonium Compounds	LC50	Non-applicable			
CAS: Proprietary	EC50	Non-applicable			
	EC50	0.06 mg/L (72 h)	N/A	Algae	

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# SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus	
2-butoxyethanol		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	
propan-2-ol		9640 mg/L (96 h)	Pimephales promelas	Fish	
CAS: 67-63-0	EC50	13299 mg/L (48 h)	Daphnia magna	Crustacean	
	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae	
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	

# 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	De	egradability	Biode	egradability
Quaternary Ammonium Compounds	BOD5	Non-applicable	Concentration	Non-applicable
CAS: Proprietary	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% 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 %
propan-2-ol	BOD5	1.19 g O2/g	Concentration	100 mg/L
CAS: 67-63-0	COD	2.23 g O2/g	Period	14 days
	BOD5/COD	0.53	% Biodegradable	86 %
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 %

# 12.3 Bioaccumulative potential:

Identification Bioaccumulation potential		mulation potential
2-butoxyethanol	BCF	3
CAS: 111-76-2	Pow Log	0.83
	Potential	Low

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### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Bioaccumulation potential		
CAS: 67-63-0		BCF	3	
		Pow Log	0.05	
		Potential	Low	
4-Nonylphenol, branched, ethoxylated CAS: 127087-87-0		BCF	8	
		Pow Log	5.67	
		Potential	Low	

#### 12.4 Mobility in soil:

Identification	Absorp	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	
propan-2-ol	Koc	1.5	Henry	8.207E-1 Pa·m³/mol	
CAS: 67-63-0	Conclusion	Very High	Dry soil	Yes	
	Surface tension	2.24E-2 N/m (77 °F)	Moist soil	Yes	
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-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. 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: 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):

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#### SECTION 14: TRANSPORT INFORMATION (continued)

#### Transport of dangerous goods by sea:

With regard to IMDG 40-20:

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

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 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 Transport in bulk (according to** Non-applicable

Annex II of MARPOL 73/78 and

the IBC Code):

### **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)

Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): 2-butoxyethanol; propan-2-ol; 4-Nonylphenol, branched, ethoxylated

California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable

The Toxic Substances Control Act (TSCA): Quaternary Ammonium Compounds; 2-butoxyethanol; propan-2-ol; Quaternary

Ammonium Compounds; 4-Nonylphenol, branched, ethoxylated; 2-ethylhexyl 4-(dimethylamino)benzoate Massachusetts RTK - Substance List: 2-butoxyethanol; propan-2-ol; 4-Nonylphenol, branched, ethoxylated

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; 4-Nonylphenol, branched, ethoxylated; 2-ethylhexyl 4-(dimethylamino)benzoate

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

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; propan-2-ol; 4-Nonylphenol, branched, ethoxylated

California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Non-applicable

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: 2-butoxyethanol (1 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:

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.

H360: May damage fertility or the unborn child.

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. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

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

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Flam. Lig. 2: H225 - Highly flammable liquid and vapour.

Flam. Liq. 4: H227 - Combustible liquid.

Repr. 1B: H360 - May damage 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: H336 - May cause drowsiness or dizziness.

Advice related to training:

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#### SECTION 16: OTHER INFORMATION (continued)

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

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