SAFETY DATA SHEET

SUPRALAN 67

ZSCHIMMER & SCHWARZ

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : SUPRALAN 67

UFI : QJ44-V01H-P000-2EDX

EC number : Mixture.

CAS number : Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Manufacture Formulation or re-packing Leather treatment chemical. Processing aid

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

Zschimmer & Schwarz GmbH & Co KG
Max-Schwarz-Str. 3-5
56112 Lahnstein / GERMANY
+49 (0)2621 12-0

e-mail address of person responsible for this SDS : msds@zschimmer-schwarz.com

Bauer Handels GmbH

Vertrieb Schweiz:	Vertrieb Deutschland & EU:
Bauer Handels GmbH	Bauer Handels GmbH
Allmendstrasse 17	Freibühlstrasse 6
CH-8320 Fehraltorf	DE-78224 Singen
Tel. +41 (0) 44 939 18 68	Tel.+49 (0) 7731 926 44 16

www.taxidermy.ch info@taxidermy.ch

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : Giftinformationszentren; Germany:

Giftnotruf der Charité Universitätsmedizin Berlin
030 - 192 40

Informationszentrale gegen Vergiftungen Bonn
0228 - 192 40

Giftnotruf Erfurt
0361 - 730 730

Vergiftungs-Informations-Zentrale Freiburg
0761 - 192 40

Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord), Göttingen
0551 - 192 40

Giftinformationszentrum der Länder Rheinland-Pfalz, Hessen und Saarland, Mainz
06131 - 192 40

Giftnotruf München
089 - 192 40

Supplier

Telephone number : +49 (0)2621 12-0

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

Hours of operation : 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315
Eye Dam. 1, H318
Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 - Wear protective gloves: > 8 hours (breakthrough time): nitrile rubber. Wear eye or face protection.
P273 - Avoid release to the environment.
P264 - Wash thoroughly after handling.

Response : P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of 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 or doctor.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
Alcohols, C9-11-branched, ethoxylated

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 2: Hazards identification

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	REACH #: 01-2120227315-64 List #: 944-459-3 CAS: 85681-66-9	≤13	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 1800 mg/kg Eye Dam. 1, H318: C ≥ 20% Eye Irrit. 2, H319: 10% ≤ C < 20%	[1]
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	REACH #: 01-2119489428-22 EC: 270-115-0 CAS: 68411-30-3	≤10	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 1080 mg/kg	[1]
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	REACH #: 01-2119490225-39 EC: 273-257-1 CAS: 68955-19-1	≤10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	Eye Dam. 1, H318: C ≥ 20% Eye Irrit. 2, H319: 10% ≤ C < 20%	[1]
2,2' -oxybisethanol	REACH #: 01-2119457857-21 EC: 203-872-2 CAS: 111-46-6 Index: 603-140-00-6	≤8.2	Acute Tox. 4, H302	ATE [Oral] = 500 mg/kg	[1] [2]
Alcohols, C9-11-branched, ethoxylated	REACH #: Polymer CAS: 169107-21-5	≤7.2	Acute Tox. 4, H302 Eye Dam. 1, H318	ATE [Oral] = 500 mg/kg	[1]
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-	REACH #: Polymer CAS: 25322-68-3	≤1	Not classified.	-	[2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤0.1	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
2-methylpentane-2,4-diol	REACH #: 01-2119539582-35 EC: 203-489-0 CAS: 107-41-5 Index: 603-053-00-3	≤0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1] [2]
sodium benzoate	REACH #: 01-2119460683-35 EC: 208-534-8 CAS: 532-32-1	≤0.1	Eye Irrit. 2, H319	-	[1] [2]
bronopol (INN)	REACH #:	<0.01	Acute Tox. 3, H301	ATE [Oral] = 202	[1] [2]

SECTION 3: Composition/information on ingredients

	01-2119980938-15 EC: 200-143-0 CAS: 52-51-7 Index: 603-085-00-8		Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (dusts and mists)] = 0.588 mg/l M [Acute] = 10	
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≤0.1	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1] [2]
1,2-benzisothiazol-3(2H)-one	REACH #: Biocide EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 **See Section 16 for the full text of the H statements declared above.**	ATE [Oral] = 490 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1] [2]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit

List numbers have no legal significance.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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.

SECTION 4: First aid measures

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. 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.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask 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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

5.3 Advice for firefighters

SECTION 5: Firefighting measures

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 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. Do not breathe 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".

6.2 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). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 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.

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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SECTION 7: Handling and storage

7.2 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. Store locked up. 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.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
2,2' -oxybisethanol	**TRGS 900 OEL (Germany, 6/2022).** TWA: 44 mg/m³ 8 hours. PEAK: 176 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. PEAK: 40 ppm 15 minutes. **DFG MAC-values list (Germany, 7/2022).** TWA: 10 ppm 8 hours. PEAK: 40 ppm, 4 times per shift, 15 minutes. TWA: 44 mg/m³ 8 hours. PEAK: 176 mg/m³, 4 times per shift, 15 minutes.
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-	**DFG MAC-values list (Germany, 7/2022).** TWA: 200 mg/m³ 8 hours. Form: inhalable fraction PEAK: 400 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction **TRGS 900 OEL (Germany, 6/2022).** PEAK: 400 mg/m³ 15 minutes. Form: inhalable fraction TWA: 200 mg/m³ 8 hours. Form: inhalable fraction
2-methoxy-1-methylethyl acetate	**TRGS 900 OEL (Germany, 6/2022).** TWA: 270 mg/m³ 8 hours. PEAK: 270 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 50 ppm 15 minutes. **DFG MAC-values list (Germany, 7/2022).** TWA: 50 ppm 8 hours. PEAK: 50 ppm, 4 times per shift, 15 minutes. TWA: 270 mg/m³ 8 hours. PEAK: 270 mg/m³, 4 times per shift, 15 minutes.
2-methylpentane-2,4-diol	**DFG MAC-values list (Germany, 7/2022).** TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m³ 8 hours. PEAK: 98 mg/m³, 4 times per shift, 15 minutes.
ethanol	**TRGS 900 OEL (Germany, 6/2022).** TWA: 380 mg/m³ 8 hours. PEAK: 1520 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 800 ppm 15 minutes. **DFG MAC-values list (Germany, 7/2022).**

SECTION 8: Exposure controls/personal protection

	TWA: 200 ppm 8 hours. PEAK: 800 ppm, 4 times per shift, 15 minutes. TWA: 380 mg/m³ 8 hours. PEAK: 1520 mg/m³, 4 times per shift, 15 minutes.
sodium benzoate	**TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.** PEAK: 20 mg/m³, (as benzoate) 15 minutes. Form: inhalable fraction TWA: 10 mg/m³, (as benzoate) 8 hours. Form: inhalable fraction
bronopol (INN)	**DFG MAC-values list (Germany, 7/2022). Absorbed through skin. Skin sensitizer.**
2-phenoxyethanol	**TRGS 900 OEL (Germany, 6/2022).** TWA: 5.7 mg/m³ 8 hours. PEAK: 5.7 mg/m³ 15 minutes. TWA: 1 ppm 8 hours. PEAK: 1 ppm 15 minutes. **DFG MAC-values list (Germany, 7/2022).** TWA: 1 ppm 8 hours. PEAK: 1 ppm, 4 times per shift, 15 minutes. TWA: 5.7 mg/m³ 8 hours. PEAK: 5.7 mg/m³, 4 times per shift, 15 minutes.
1,2-benzisothiazol-3(2H)-one	**DFG MAC-values list (Germany, 7/2022). Skin sensitizer.**

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	DNEL	Long term Inhalation	285 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	4060 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	85 mg/m³	General population	Systemic
	DNEL	Long term Dermal	2440 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	24 mg/kg bw/day	General population	Systemic
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	DNEL	Long term Inhalation	7.6 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	119 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.3 mg/m³	General population	Systemic
	DNEL	Long term Dermal	42.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.425 mg/kg bw/day	General population	Systemic
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	DNEL	Long term Inhalation	285 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	4060 mg/	Workers	Systemic

SECTION 8: Exposure controls/personal protection

			kg bw/day		
	DNEL	Long term Inhalation	85 mg/m³	General population	Systemic
	DNEL	Long term Dermal	2440 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	24 mg/kg bw/day	General population	Systemic
2,2' -oxybisethanol	DNEL	Long term Inhalation	44 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	60 mg/m³	Workers	Local
	DNEL	Long term Dermal	43 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Local
	DNEL	Long term Dermal	21 mg/kg bw/day	General population	Systemic
2-methoxy-1-methylethyl acetate	DNEL	Long term Inhalation	275 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	550 mg/m³	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	33 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	Fresh water	0.012 mg/l	Assessment Factors
	Marine water	0.0012 mg/l	Assessment Factors
	Sewage Treatment Plant	1.35 mg/l	Assessment Factors
	Fresh water sediment	0.422 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.0422 mg/kg dwt	Equilibrium Partitioning
	Soil	0.077 mg/kg dwt	Equilibrium Partitioning
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Fresh water	0.268 mg/l	Assessment Factors
	Marine water	0.0268 mg/l	Assessment Factors
	Sewage Treatment Plant	3.43 mg/l	Assessment Factors
	Fresh water sediment	8.1 mg/kg dwt	Assessment Factors
	Marine water sediment	6.8 mg/kg dwt	Assessment Factors
	Soil	35 mg/kg dwt	Assessment Factors
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	Fresh water	0.098 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Sewage Treatment Plant	6.8 mg/l	Assessment Factors
	Fresh water sediment	3.45 mg/kg dwt	Assessment Factors
	Marine water sediment	0.345 mg/kg dwt	Assessment Factors
	Soil	0.631 mg/kg dwt	Assessment Factors
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l	Assessment Factors
	Marine water	0.0635 mg/l	Assessment Factors

SECTION 8: Exposure controls/personal protection

	Sewage Treatment Plant	100 mg/l	Assessment Factors
	Fresh water sediment	3.29 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.329 mg/kg dwt	Equilibrium Partitioning
	Soil	0.29 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 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. > 8 hours (breakthrough time): nitrile rubber

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.

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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Color : Tan.

Odor : Bland.

Odor threshold : Not available.

Melting point/freezing point : -5°C

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range : 100°C (212°F)

Flammability (solid, gas) : Not available.

Upper/lower flammability or explosive limits : Not available.

Flash point : Closed cup: Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	>400	>752	

Decomposition temperature : Not available.

pH : 8 [Conc. (% w/w): 10%]

Viscosity : Dynamic: 350 mPa·s

Solubility(ies) :

Media	Result
cold water	Easily soluble

Solubility in water : Not available.

Miscible with water : Yes.

Partition coefficient: n-octanol/water : Not applicable.

Vapor pressure : 2.3 kPa (17.251 mm Hg)

Relative density : Not available.

Density : 1.05 g/cm³ [20°C (68°F)]

Vapor density : Not available.

Explosive properties : Not available.

Oxidizing properties : No.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	1800 mg/kg	-
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	1080 mg/kg	-
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	4010 mg/kg	-
2,2' -oxybisethanol	LC50 Inhalation Dusts and mists	Rat	>4.6 mg/l	4 hours
	LD50 Dermal	Rabbit	>13300 mg/kg	-
	LD50 Oral	Rat - Male, Female	16500 mg/kg	-
Alcohols, C9-11-branched, ethoxylated	LD50 Oral	Rat	300 to 2000 mg/kg	-
2-methoxy-1-methylethyl acetate	LCLo Inhalation Vapor	Rat - Male, Female	>1728 ppm	4 hours
	LD50 Oral	Rat - Male, Female	6190 mg/kg	-
	LDLo Dermal	Rabbit - Male, Female	>5000 mg/kg	-

Conclusion/Summary : Not available.

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)
SUPRALAN 67	2577.9	N/A	N/A	N/A	N/A
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	1800	N/A	N/A	N/A	N/A
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	1080	N/A	N/A	N/A	N/A
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	4010	N/A	N/A	N/A	N/A
2,2' -oxybisethanol	500	N/A	N/A	N/A	N/A
Alcohols, C9-11-branched, ethoxylated	500	N/A	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	6190	N/A	N/A	N/A	N/A

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	Eyes - Irritant	Rabbit	-	-	-
	Skin - Irritant	Rabbit	-	-	-
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Rabbit	-	-	-
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Rabbit	-	-	-
2,2' -oxybisethanol	Eyes - Cornea opacity	Rabbit	<1	-	-
	Skin - Primary dermal irritation index (PDII)	Rabbit	0.04	-	-
Alcohols, C9-11-branched, ethoxylated	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Erythema/Eschar	Rabbit	<1.5	-	-
2-methoxy-1-methylethyl acetate	Eyes - Redness of the conjunctivae	Rabbit	1.2	-	-
	Skin - Erythema/Eschar	Rabbit	0	-	-

Conclusion/Summary : Not available.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	skin	Guinea pig	Not sensitizing
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	skin	Guinea pig	Not sensitizing
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	skin	Guinea pig	Not sensitizing
2,2' -oxybisethanol	skin	Guinea pig	Not sensitizing
2-methoxy-1-methylethyl acetate	skin	Guinea pig	Not sensitizing

Conclusion/Summary : Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 *In vitro* Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
Benzenesulfonic acid,	OECD 473 *In vitro*	Experiment: In vitro	Positive

SECTION 11: Toxicological information

C10-13-alkyl derivs., sodium salts	Mammalian Chromosomal Aberration Test	Subject: Mammalian-Animal	
	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 *In vitro* Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 *In vitro* Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
2,2' -oxybisethanol	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473 *In vitro* Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 479 Genetic Toxicology: *In vitro* Sister Chromatid Exchange Assay in Mammalian Cells	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
2-methoxy-1-methylethyl acetate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 *In vitro* Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 482 Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells *in vitro*	Experiment: In vitro Subject: Mammalian-Animal	Negative

Conclusion/Summary : Not available.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	Negative - Oral - TCLo	Rat - Male, Female	11255 mg/kg	2 years; 7 days per week
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	Negative - Oral - TCLo	Rat - Male, Female	>1125 mg/kg	2 years; 7 days per week
2,2' -oxybisethanol	Negative - Oral - TDLo	Rat - Male,	1210 mg/kg	108 weeks

SECTION 11: Toxicological information

2-methoxy-1-methylethyl acetate	Negative - Inhalation - TCLo	Female Rat - Male, Female	3000 ppm	2 years; 6 hours per day

Conclusion/Summary : Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Negative	Negative	Negative	Rat - Male, Female	Oral: 350 mg/kg	2 years; 7 days per week
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	Negative	-	Negative	Rat	Oral: 250 mg/kg	-
2,2' -oxybisethanol	-	Negative	-	Mouse - Male, Female	Oral: 3060 mg/kg	-
2-methoxy-1-methylethyl acetate	Negative	-	-	Rat - Female	Inhalation: 300 ppm	6 hours per day
	-	Negative	Negative	Rat - Male, Female	Inhalation: 1000 ppm	6 hours per day

Conclusion/Summary : Not available.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	Negative - Oral	Rat	250 mg/kg	10 days; 7 days per week
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Negative - Oral	Rat	300 mg/kg	10 days; 7 days per week
2,2' -oxybisethanol	Negative - Oral	Rabbit - Female	1000 mg/kg	-
	Negative - Oral	Rat - Male, Female	1120 mg/kg	-
2-methoxy-1-methylethyl acetate	Negative - Inhalation	Rat	4000 ppm	10 days; 6 hours per day

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

Ingestion : No known significant effects or critical hazards.

SECTION 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

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

Product/ingredient name	Result	Species	Dose	Exposure
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	Sub-chronic NOAEL Dermal	Mouse - Male, Female	400 mg/kg	90 days; 2 days per week
	Sub-chronic NOAEL Oral	Rat - Male, Female	488 mg/kg	13 weeks; 7 days per week
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Sub-chronic NOAEL Oral	Rat - Male, Female	>85 mg/kg	9 months; 7 days per week
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	Sub-chronic NOAEL Dermal	Mouse - Male, Female	400 mg/kg	90 days; 2 days per week
	Sub-chronic NOAEL Oral	Rabbit - Male, Female	488 mg/kg	90 days; 7 days per week
2,2' -oxybisethanol	Sub-acute LD50 Dermal	Dog - Male	>2000 mg/kg	28 days
	Sub-chronic LOAEL Oral	Rat - Male, Female	230 mg/kg	225 days
	Sub-acute NOAEL Oral	Rat - Male, Female	936 mg/kg	28 days
2-methoxy-1-methylethyl acetate	Sub-acute NOAEL Dermal	Rabbit - Male, Female	>1000 mg/kg	21 days; 7 days per week
	Sub-acute NOAEL Oral	Rat - Male, Female	≥1000 mg/kg	44 days; 7 days per week
	Chronic NOEL Inhalation Vapor	Rabbit - Male, Female	300 ppm	2 years; 6 hours per day

Conclusion/Summary : Not available.

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.

SECTION 11: Toxicological information

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	Acute EC50 11 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 3.41 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 135 mg/l Fresh water	Micro-organism	3 hours
	Acute LC50 3.69 mg/l Fresh water	Fish - Danio rerio	96 hours
	Acute NOEC 3 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.12 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	7 days
	Chronic NOEC ≥1.357 mg/l Fresh water	Fish - Pimephales promelas	42 days
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Acute EC10 13.1 mg/l Fresh water	Algae - Raphidocelis subcapitata	96 hours
	Acute EC50 235 mg/l Fresh water	Algae - Raphidocelis subcapitata	72 hours
	Acute EC50 2.9 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2.88 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1.18 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.23 mg/l Fresh water	Fish - Oncorhynchus mykiss	72 days
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	Acute EC50 20 mg/l	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 680 mg/l Fresh water	Micro-organism	3 hours
	Acute LC50 2.8 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.3 mg/l Fresh water	Fish - Danio rerio	96 hours
	Acute NOEC 3 mg/l	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.14 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.11 mg/l Fresh water	Fish - Pimephales promelas	34 days
2,2' -oxybisethanol	Acute EC50 >10000 mg/l Fresh water	Daphnia - Daphnia magna	24 hours
	Acute EC50 >1995 mg/l Fresh water	Micro-organism	30 minutes
	Acute LC50 75200 mg/l	Fish - Pimephales promelas	96 hours
	Acute NOEC >100 mg/l Fresh water	Algae - Raphidocelis subcapitata	72 hours
	Chronic LC50 >1500 mg/l Marine water	Fish - Menidia peninsulae	28 days
	Chronic NOEC 8590 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	7 days
Alcohols, C9-11-branched, ethoxylated	Acute EC50 10 to 100 mg/l	Algae	72 hours
	Acute EC50 10 to 100 mg/l	Daphnia	48 hours
	Acute LC50 10 to 100 mg/l	Fish	96 hours
	Acute NOEC >1 mg/l	Algae	72 hours
2-methoxy-1-methylethyl acetate	Acute EC10 >1000 mg/l Fresh water	Micro-organism	30 minutes
	Acute EC50 >1000 mg/l Fresh water	Algae - Raphidocelis subcapitata	96 hours
	Acute EC50 >500 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC ≥100 mg/l Fresh water	Daphnia - Daphnia magna	21 days

SECTION 12: Ecological information

	Chronic NOEC 47.5 mg/l Fresh water	Fish - Oryzias latipes	14 days

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	OECD 301D Ready Biodegradability - Closed Bottle Test	83 % - 28 days	-	-
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	OECD 301B Ready Biodegradability - CO_2 Evolution Test	83 % - 28 days	-	-
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	EU C.4-C	93 % - 28 days	-	-
2,2' -oxybisethanol	OECD 301B Ready Biodegradability - CO_2 Evolution Test	80 % - 28 days	-	-
2-methoxy-1-methylethyl acetate	OECD 301F Ready Biodegradability - Manometric Respirometry Test	83 % - 28 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	-	-	Readily
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	-	-	Readily
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	-	-	Readily
2,2' -oxybisethanol	-	50%; 0.72 day(s)	Readily
Alcohols, C9-11-branched, ethoxylated	-	-	Readily
2-methoxy-1-methylethyl acetate	-	-	Readily

BOD value: : 0.411 gO2/g (Period:5 days)

COD value: : 0.887 gO2/g

12.3 Bioaccumulative potential

SECTION 12: Ecological information

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Sulfuric acid, C12-14 (even numbered)-alkyl esters, 2-(hydroxypropyl)ammonium salts	<-1.578	71	low
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	1.4	87	low
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	-2.1	-	low
2,2' -oxybisethanol	-1.98	100	low
2-methoxy-1-methylethyl acetate	1.2	2.9	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : 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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

SECTION 15: Regulatory information

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
ethanol	DFG MAC-values list	Ethanol; Ethyl alcohol	K3, M3	-

Storage class (TRGS 510) : 12

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water : 2

Technical instruction on air quality control : TA-Luft Number 5.2.5: 14.4%

AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method

Full text of abbreviated H statements

SECTION 16: Other information

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

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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.