

SAFETY DATA SHEET

SLES 70

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

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Version : 9.1

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

1.1. Product identifier

Product name : SLES 70
Chemical name : Alcohols, C12-14, ethoxylated, sulfates, sodium salts. Aqueous solution
EC number : Mixture.
INCI Name : SODIUM LAURETH SULFATE
Other means of identification : Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts; Poly(oxy-1,2-ethanediyl), α -sulfo- ω -hydroxy-

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

Identified uses : Formulation of Detergents/Maintenance Products: Granular Detergent-Compact (large scale)
Formulation of Detergents/Maintenance Products: Granular Detergent-Compact (medium scale)
Formulation of Detergents/Maintenance Products: Granular Detergent-Compact (small scale)
Use of Me-salts in conversion coating – Nickel
Use of Me-salts in conversion coating - Zinc, Chromium, Copper, Manganese
Use of air freshener products
Use of polishes
Use of washing and cleaning products
Use of washing and cleaning products (Reactive)
Use of washing and cleaning products (Sprays)
Use of Façade/surface Cleaning Products
Use of Food beverage and pharmacos products
Use of Laundry products
Use of Laundry products (Reactive)
Use of Laundry products (WDU)
Use of Quality control
Use of Vehicle cleaning Products
Use of Water treatment Products
Laboratory Use
Use of Dishwashing products
Use of Façade/surface Cleaning Products
Use of Floor care products
Use of Floor care products
Use of Food beverage and pharmacos products
Use of General surface cleaning products
Use of Hand Cleaners

Use of Laundry products
Use of Laundry products (Reactive)
Use of Maintenance Products
Use of Medical Devices
Use of Vehicle cleaning Products
Consumer coatings and inks application (Indoor)
Formulation of Organic Solvent Borne Coatings and Inks- Small Scale
Consumer coatings and inks application (Outdoor)
Formulation of Water Borne Coatings and Inks – Large Scale
Formulation of Water Borne Coatings and Inks – Small Scale
Formulation of Liquid Coatings and Inks
Industrial coatings and inks application
Industrial coatings and inks application equipment cleaning
Industrial coatings and inks application film formation
Industrial coatings and inks application laboratory use: QC laboratory
Industrial coatings and inks application loading of application equipment
Industrial coatings and inks application preparation of material for application
Industrial coatings and inks application product delivery/storage
Industrial coatings and inks application waste management
Coatings and inks application (Indoor) application (Indoor)
Coatings and inks application (Indoor) equipment cleaning (Indoor)
Coatings and inks application (Indoor) film formation (Indoor)
Coatings and inks application (Indoor) loading of application equipment (Indoor)
Coatings and inks application (Indoor) preparation of material for application (Indoor)
Coatings and inks application (Indoor) product delivery/storage (Indoor)
Coatings and inks application (Outdoor) application (Outdoor)
Coatings and inks application (Outdoor) equipment cleaning (Outdoor)
Coatings and inks application (Outdoor) film formation (Outdoor)
Coatings and inks application (Outdoor) laboratory use: QC laboratory
Coatings and inks application (Outdoor) loading of application equipment (Outdoor)
Coatings and inks application (Outdoor) preparation of material for application (Outdoor)
Coatings and inks application (Outdoor) product delivery/storage (Outdoor)
Coatings and inks application (Outdoor) waste management (Outdoor)
Formulation of powder products QC laboratory
Formulation of powder products
Formulation of Organic Solvent Borne Coatings and Inks- Large Scale
Formulation of Fine Fragrances - Cleaning with Water (medium scale)
Formulation of Fine Fragrances - Cleaning with Water (small scale)
Formulation of Medium Viscosity Body Care Products (small scale)
Formulation of Medium Viscosity Body Care Products (medium scale)
Formulation of Non-liquid Creams, high viscosity Products (small scale)
Formulation of Non-liquid Creams, high viscosity Products (large scale)
Formulation of Non-liquid Creams, high viscosity Products (medium scale)
Formulation of body care soap (large scale)
Formulation of body care soap (medium scale)
Formulation of body care soap (small scale)
Formulation of cosmetic products involving cleaning with Organic Solvents (Varnish / Removers, Decorative
Cosmetics, Spray, Lacquer, Fine Fragrance, Solar oil, solid products)

(large scale)
Formulation of cosmetic products involving cleaning with Organic Solvents (Varnish / Removers, Decorative Cosmetics, Spray, Lacquer, Fine Fragrance, Solar oil, solid products)
(medium scale)
Formulation of cosmetic products involving cleaning with Organic Solvents (Varnish / Removers, Decorative Cosmetics, Spray, Lacquer, Fine Fragrance, Solar oil, solid products)
(small scale)
Formulation of low viscosity liquids (Shampoo, hair conditioner, shower gel, foam bath) (large scale)
Formulation of body care soap (medium scale)
Formulation of low viscosity liquids (Shampoo, hair conditioner, shower gel, foam bath) (small scale)
Wide Dispersive Use in 'Down the Drain' products - hair and skin care products
Wide Dispersive Use in 'Down the Drain' products - hair and skin care products
Wide Dispersive Use of Aerosol products for hair and skin care (Non Propellants)
Wide Dispersive Use of Aerosol products for hair and skin care (Propellants)
Applying treatment to seed (on-farm, Indoor)
Applying treatment to seed (on-farm, outdoor)
Co-formulants used in crop protection products (seed treatments and granules, Indoor).
Co-formulants used in crop protection products (seed treatments and granules, Outdoor).
Co-formulants used in crop protection products (sprays, Indoor).
Co-formulants used in crop protection products (sprays, Outdoor).
Manufacture of aqueous polymer dispersions and dispersion powders - Formulation of Preparations
Manufacture of aqueous polymer dispersions and dispersion powders - Use of Intermediates
Manufacture of aqueous polymer dispersions and dispersion powders - Use of Monomers
Manufacture of aqueous polymer dispersions and dispersion powders - Use of Process Regulators for Polymerisation
Manufacture of aqueous polymer dispersions and dispersion powders - Use of Processing Aids
Use of volatile substances in Construction Chemicals
Service Life of Construction Chemicals (Indoor)
Service Life of Construction Chemicals (Outdoor)
Volatile substances for the Formulation of Construction Chemicals
Wide dispersive use of volatile substances in Construction Chemicals (outdoor)
Wide dispersive use of volatile substances in Construction Chemicals (outdoor)
Wide dispersive use of volatile substances in Construction Chemicals (indoor)
Wide dispersive use of nonvolatile substances in Construction Chemicals (indoor)
Wide dispersive use of nonvolatile substances in Construction Chemicals (outdoor)
Wide dispersive use of volatile substances in Construction Chemicals, outdoor
Wide dispersive use of volatile substances in Construction Chemicals,

outdoor
Wide dispersive use of volatile substances in Construction Chemicals,
indoor
Use of Fertilizers (indoor)
Use of Fertilizers, outdoor
Manufacturing / Formulation of Fertilizers
Manufacturing / Formulation of Fertilizers
Manufacturing / Formulation of Fertilizers
Use of Fertilizers (Indoor)
Use of Fertilizers (Outdoor)
Use of Fertilizers (Outdoor)
Distribution Forwarding (closed system)
Distribution Q Controlling
Distribution Repacking
Distribution Sampling
Distribution Storing
Distribution Uploading / unloading
Formulating Batch Mixing
Formulating Batch Mixing
Formulating Closed System Mixing
Formulating Closed System Mixing
Formulating physically bonded Batch Mixing
Formulating physically bonded Batch Mixing
Formulating physically bonded Calendaring
Formulating physically bonded Closed System Mixing
Formulating physically bonded Compressing, Extruding, Tableting
Solvent use, Indoor
Solvent use, Outdoor
Formulation of Solvent Borne adhesives - Volatiles
Formulation of Water Borne adhesives - Volatiles
Industrial Use of Solvents in Paper, Board and related Products /
Woodworking and joinery / Footwear and Leather,
Textile, Others Adhesives
Industrial Use of Solvents in Transportation (Automotive/aircraft/rail
vehicles) / industrial Building Construction
Adhesives
Industrial Use of Substances other than Solvents in Paper, Board and
related Products / Woodworking and joinery /
Footwear and Leather, Textile, Others Adhesives
Industrial Use of Substances other than Solvents in Transportation
(Automotive/aircraft/rail vehicles) / industrial
Building Construction Adhesives
Wide dispersive Use of Solvents in Building Construction Adhesives for
indoor/outdoor application
Wide dispersive Use of Solvents in Building Construction Adhesives for
indoor/outdoor application
Wide dispersive Use of Solvents in Professional and DIY Adhesives
Wide dispersive Use of Solvents in Professional and DIY Adhesives
Wide dispersive Use of Substances other than Solvents in Building
Construction Adhesives for indoor /outdoor
application
Wide dispersive Use of Substances other than Solvents in Building
Construction Adhesives for indoor /outdoor
application
Wide dispersive Use of Substances other than Solvents in Professional
and DIY Adhesives
Wide dispersive Use of Substances other than Solvents in Professional
and DIY Adhesives

Industrial Solvent use
Professional Solvent use indoor
Professional Solvent use, Outdoor
Blending
Blending
Coating
Formulation of preparations
Handling (Non-Reactive Processing Aids)
Handling (Non-Reactive Processing Aids)
Mixing
Spraying (Non-Reactive)
Spraying (Reactive)
Textile Coating (Inclusion in Matrix)
Textile Coating (Non-Reactive Processing Aids)
Textile Coating (Reactive Processing Aids)
Textile application: dipping and pouring (Inclusion in Matrix)
Textile application: dipping and pouring (Non-Reactive Processing Aids)
Textile application: dipping and pouring (Reactive Processing Aids)
Application of non processing aids
Application of processing aids
blending (Bound in Product)
exposure from textile articles (Low Release, Indoor)
extrusion (Inclusion in Matrix)
extrusion (Reactive)
handling (Inclusion in Matrix)
handling (Inclusion in Matrix)
handling (Reactive Processing Aids)
handling (Reactive Processing Aids)
lubrication
Manipulation of substances bound in materials
textile application: calendering
Use for leather finishing (Inclusion in Matrix)
use for leather finishing (Monomers)
Use for leather finishing (No Inclusion in Matrix)
use in wet end (Inclusion in Matrix)
use in wet end (No Inclusion in Matrix)
use in wet end (Reactive)

Uses advised against : Not determined

1.3. Details of the supplier of the safety data sheet

Name : GLI-THERM Sp. z o.o.
Address : st. Rozwojowa 11, 44-338 Jastrzębie-Zdrój Poland
Regon : 242850136
NIP/Tax No : 6423178990
Telephone : +48 733 525 533
E-mail : sandra.stachowicz@gli therm.eu
Website address : www.glitherm.eu

1.4. Emergency telephone number

National advisory body/Poison Center:

Ireland : National Poisons Information Centre
Emergency number:
+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166
(public, 8am - 10pm, 7/7)

United Kingdom	:	National Poisons Information Service (Newcastle Centre) Emergency number: 0844 892 0111 (UK only, 24/7, healthcare professionals only)
Poland	:	Szpital Praski p.w. Przemienienia Pańskiego Sp. z o.o. Emergency number: +48 22 619 66 54 +48 22 619 08 97
Germany	:	Vergiftungs-Informationen-Zentrale Freiburg Emergency number: +49 (0) 761 19240
24 Hour Emergency Telephone	:	+(44)-8708200418 CHEMTREC
Supplier		
Telephone number	:	+48 733 525 533

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 : Causes skin irritation.

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

Aquatic Chronic 3, H412 : Harmful to aquatic life with long lasting effects.

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. Wear eye or face protection:
P273 - Avoid release to the environment.
- Response** : **P302 + P352** - IF ON SKIN: Wash with plenty of water.
P332 + P313 - If skin irritation occurs, get medical advice/attention.
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/container to hazardous or special waste collection point.
- 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

- Substance meets the criteria for PBT 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 at a concentration $\geq 0.1\%$ (w/w).
- Substance meets the criteria for 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 at a concentration $\geq 0.1\%$ (w/w).
- Other hazards which do not result in classification** : The product does not contain components included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, and identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration $\geq 0.1\%$ (w/w).

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable.

3.2. Mixture

Substance	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	REACH #: 01-2119488639-16 EC: 500-234-8 CAS: 68891-38-3	68-76	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	Eye Dam. 1, H318: C ≥ 10% Eye Irrit. 2, H319: 5% ≤ C < 10%	[1]
water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	24-32	Not classified.	-	[1]

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

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] Additional disclosure due to company policy

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.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Put on appropriate personal protective equipment (see Section 8).

4.2. Most important symptoms and effects, both acute and delayed

Potential acute health effects

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 : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use alcohol-resistant foam to extinguish.

Unsuitable extinguishing media : Never direct a water jet into the container in order to prevent any splashing of the product, which could cause the fire to spread.

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 (CO) sulfur oxides metal oxide/oxides

5.3 Advice for firefighters

- Special precautions 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. Do not absorb in sawdust or other combustible material.

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.

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.

7.2. Conditions for safe storage, including any incompatibilities.

Store between the following temperatures: 15 to 45°C (59 to 113°F). 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** : No additional information.
- Industrial sector specific solutions** : No additional remark.

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

No exposure limit value 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
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	DNEL	Long term Oral	15 mg/kg bw/day	General	Systemic
	DNEL	Long term Inhalation	52 mg/m ³	General	Systemic
	DNEL	Long term Inhalation	175 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1650 mg/kg bw/day	General	Systemic
	DNEL	Long term Dermal	2750 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0,079 mg/cm ²	General	Local
	DNEL	Long term Dermal	0,132 mg/cm ²	Workers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts.	Fresh water	0,24 mg/l	Assessment Factors
	Marine water	0,024 mg/l	Assessment Factors
	Sewage Treatment Plant	10000 mg/l	Assessment Factors
	Fresh water sediment	5,45 mg/kg	Equilibrium Partitioning
	Marine water sediment	0,545 mg/kg	Equilibrium Partitioning
	Soil	0,946 mg/kg	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 product, 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 : 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.

- 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.
It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.
In case of a long-term direct exposure, nitrile latex/nitrile rubber >0,4 mm thick, of minimum time of penetration 480 min should be used.
In case of a short-term direct exposure nitrile latex/ nitrile rubber >0,2 mm thick, of minimum time of penetration 30 min should be used.
- 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. Recommended: 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. Recommended: Suitable protective footwear.
- 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. Possible: Under normal conditions of storage does not emit hazardous fumes.
- 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

9.1. Information on basic physical and chemical properties

Physical state	: Liquid. [liquid paste]
Color	: Colorless.
Odor	: Characteristic. [Slight]
pH	: 7 to 10 [Conc. (% w/w): 5%]
Initial boiling point and boiling range	: >400°C (>752°F) [ASTM E 737-76]
Melting point/freezing point	: approx. 10°C
Flash point	: Lack of data.
Evaporation rate	: Lack of data.

Flammability (solid, gas)	:	Lack of data.
Upper/lower explosive limits	:	Lack of data.
Vapor pressure	:	Lack of data.
Vapor density	:	Lack of data.
Density	:	1,08 g/cm ³ [22°C (71,6°F)] [OECD 109]
Relative density	:	
Solubility(ies)	:	cold water: Easily soluble; methanol: Easily soluble
Solubility in water at room temperature	:	Easily soluble
Partition coefficient: n-octanol/water	:	Lack of data.
Auto-ignition temperature	:	250°C (482°F) [EU A.16]
Decomposition temperature	:	>50°C
Viscosity	:	Dynamic: approx. 20000 mPa·s

9.2. Other information

Explosive properties	:	Lack of data.
Oxidizing properties	:	No results available.
Median particle size	:	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not considered to be reactive.

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

Stable under recommended storage and handling conditions (see Section 7).

10.5. Incompatible materials

Strong oxidizer, copper

10.6. Hazardous decomposition products

carbon oxides (CO, CO₂); sulfur oxides (SO₂, SO₃ etc.)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral	:	LD50 2870 mg/kg (Rat - Male, Female)
Skin	:	LD50 >2000 mg/kg (Rat - Male, Female)
Conclusion/Summary	:	No known significant effects or critical hazards.

Acute toxicity estimates Alcohols, C12-14, ethoxylated, sulfates, sodium salts Aqueous solution

Oral (mg/kg) : >3800

Dermal (mg/kg) : Lack of data

Inhalation (gases) (ppm) : Lack of data

Inhalation (vapors) (mg/l) : Lack of data

Inhalation (dusts and mists) (mg/l) : Lack of data

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts.	Eyes - Cornea opacity	Rabbit	0.5 to 4	24 to 72 hours	72 hours
	Eyes - Edema of the conjunctivae	Rabbit	0.9 to 3	24 to 72 hours	72 hours
	Eyes - Iris lesion	Rabbit	0.8 to 2	24 to 72 hours	72 hours
	Eyes - Redness of the conjunctivae	Rabbit	2.8 to 3	24 to 72 hours	72 hours
	Skin - Erythema/Eschar	Rabbit	3.2 to 4	24 to 72 hours	-

Conclusion/Summary

Skin : Causes skin irritation.

Eye : Causes serious eye damage.

Respiratory : No known significant effects or critical hazards.

Sensitization

Product/ingredient name : Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts.

Route of exposure : skin

Species : Guinea pig

Result : Not sensitizing

Conclusion/Summary

Skin : Non-sensitizer to skin.

Respiratory : No known significant effects or critical hazards.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts.	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: S. typhimurium TA 1535, TA 1537, TA 1538, TA 98, TA 100	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test	Experiment: In vivo Subject: Mammalian-Animal	Negative

Conclusion/Summary : No mutagenic effect.

Carcinogenicity : No carcinogenic effect.

Conclusion/Summary

Reproductive toxicity

Product/ingredient name : Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts.

Maternal toxicity : Negative

Fertility : Negative

Development toxin : Negative

Species : Rat - Male

Dose : Oral: 30 to 300 mg/kg

Exposure : 11 weeks

Conclusion/Summary : Not mutagenic in a standard battery of genetic toxicological tests.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure) : No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure) : No known significant effects or critical hazards.

Aspiration hazard : No known significant effects or critical hazards.

Information on the likely routes of exposure : Routes of entry anticipated: Dermal Eyes.
Routes of entry not anticipated: Oral, Inhalation.

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.

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 : No known significant effects or critical hazards.
Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.
Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

No known significant effects or critical hazards.

Conclusion/Summary : Based on available data, the classification criteria are not met.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

Endocrine disrupting properties : No known significant effects or critical hazards.

Other information : No additional information.

SECTION 12: Ecological information

12.1. Toxicity

Product/ingredient name	Result	Species	Exposure
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Acute EC50 27,7 mg/l Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute EC50 7,4 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 7,1 mg/l Fresh water	Fish - <i>Danio rerio</i>	96 hours
	Chronic NOEC 0,18 mg/l Fresh water	Daphnia	21 days
	Chronic NOEC 0,1 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	28 days

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name : Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Test : EU EEC nr C.4 - D/OECD301F

Result : 68 % - Readily - 28 days

Dose : -

Inoculum : -

Conclusion/Summary : This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Product/ingredient name : Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts. Aqueous solution

Aquatic half-life : -

Photolysis : -

Biodegradability : Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	0.3	< 500	low
water	-1.38	-	low

12.4 Mobility in soil

Soil/water partition coefficient (KOC) : Lack of data.

Mobility : Do not allow to enter groundwater, surface water or drains. This product may move with surface or groundwater flows because its water solubility is: high

12.5 Results of PBT and vPvB assessment

PBT : This mixture does not contain any substances that are assessed to be a PBT or a vPvB at a concentration $\geq 0.1\%$ (w/w).

vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB at a concentration $\geq 0.1\%$ (w/w).

12.6 Endocrine disrupting properties

No known significant effects or critical hazards.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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 or 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 : Yes.

European waste catalogue (EWC)

Waste code : **Waste designation**
 16 03 05* : organic wastes containing hazardous substances

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.

Type of packaging **European waste catalogue (EWC)**

Barel : 15 01 10* - packaging containing residues of or contaminated by hazardous substances

Container : 15 01 10* - packaging containing residues of or contaminated by hazardous substances

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	ADN	IMDG	IATA
14.1. UN Number	Not regulated.	9006	Not regulated.	Not regulated.
14.2. UN Proper Shipping Name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C12-14, ethoxylated < 2.5 EO, sulfates, sodium salts)	-	-
14.3. Transport Hazard Class(es)	-	9	-	-
14.4. Packing Group	-	-	-	-
14.5. Environmental Hazards	No	Yes	-	-
14.6. Special Precautions for users	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.			

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

14.7 Maritime transport in bulk according to IMO instruments

Not regulated.

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 Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations:

DIRECTIVE 2008/68/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 September 2008 on the inland transport of dangerous goods (ADR, ADN, RID)

IATA /International Air Transport Association/ Dangerous Goods Regulations (ICAO/IATA DGR) International Maritime Dangerous Goods Code (IMDG CODE)

REGULATION (EC) No 1223/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 November 2009 on cosmetic products

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants (2019/1021/UE)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

15.2 Chemical Safety Assessment:

Exposure Scenario of for Alcohols, C12-14, ethoxylated, sulfates, sodium salts.

SECTION 16: Other information

The data is confirmed based on the state of our knowledge, but does not determine how the production properties and cannot be used to justify legally binding contracts.

Abbreviations; acronyms and full text of H-Statements

H290	:	May be corrosive to metals.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H331	:	Toxic if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	:	May cause respiratory irritation.
H341	:	Suspected of causing genetic defects.
H350i	:	May cause cancer by inhalation.
H360D	:	May damage the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
Aquatic Chronic 3	:	AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1	:	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Skin Irrit. 2	:	SKIN CORROSION/IRRITATION - Category 2
REACH	:	Registration, Evaluation, Authorisation and Restriction of Chemical
MARPOL	:	(from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
N/A	:	Not applicable
N/D	:	Not determined
NE	:	Not established
VOC	:	Volatile Organic Compound
AICS	:	Australian Inventory of Chemical Substances
AIHA WEEL	:	American Industrial Hygiene Association Workplace Environmental Exposure Limits
DSL	:	Domestic Substance List (Canada)
ELINCS	:	European List of Notified Chemical Substances
ENCS	:	Existing and new Chemical Substances (Japanese inventory)
IECSC	:	Inventory of Existing Chemical Substances in China
KECI	:	Korean Existing Chemicals Inventory
NDSL	:	Non-Domestic Substances List (Canada)
NZIoC	:	New Zealand Inventory of Chemicals
PICCS	:	Philippine Inventory of Chemicals and Chemical Substances

TLV	:	Threshold Limit Value (American Conference of Governmental Industrial Hygienists)
TSCA	:	Toxic Substances Control Act (U.S. inventory)
UVCB	:	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
IBC Code	:	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
UN	:	United Nations (also UNO: United Nations Organization)
NOEC	:	No Observed Effect Concentration
NOELR	:	No Observable Effect Loading Rate
OECD	:	Organization for Economic Co-operation and Development
ASTM	:	American Society for Testing and Materials
WAF	:	Water Accommodated Fraction
ADR	:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG	:	International Maritime Code for Dangerous Goods
IATA	:	International Air Transport Association
GHS	:	Globally Harmonised System of Classification and Labeling of Chemicals
EINECS	:	European Inventory of Existing Commercial Chemical Substances
CAS	:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL	:	Derived No-Effect Level (REACH)
PNEC	:	Predicted No-Effect Concentration (REACH)
LC	:	Lethal Concentration
LD	:	Lethal Dose
LL	:	Lethal Loading
EC	:	Effective Concentration
EL	:	Effective Loading
LC50	:	Lethal concentration, 50 percent
LD50	:	Lethal dose, 50 percent
PBT	:	Persistent, Bioaccumulative and Toxic
vPvB	:	very Persistent and very Bioaccumulative
Acute Tox, 4	:	Acute toxicity - Category 4
Notice to reader	:	The information contained herein is accurate to the latest knowledge and describes the product from the point of view of help and environmental protection as well as safe handling. The information presented in this SDS refers to the technical product only and will not apply to any processed product. Final determination of the suitability of any materials for the chosen application(s) is the sole responsibility of the user"