

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

Chemical name: Alcohols, C16-C18, ethoxylated (polymer; starting materials listed in EINECS)

Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: industrial chemicals

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2. HAZARDS IDENTIFICATION

Label elements: According to Regulation (EC) No 1272/2008 [CLP]
Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word: Danger

Hazard Statement: H318 Causes serious eye damage.

Precautionary Statements (Prevention): P280d Wear eye/face protection.

Precautionary Statements (Response): P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes
Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

According to Directive 67/548/EEC or 1999/45/EC

as in Annex VI of Directive 67/548/EEC

Hazard symbol(s):

Xi Irritant.



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R-phrases(s): R41 Risk of serious damage to eyes.
S-phrases(s): S39 Wear eye/face protection.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

Hazard determining component(s) for labelling: Alcohols, C16-18, ethoxylated.

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Eye dam./irr. 1

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards: Risk of serious damage to eyes.
Other hazards: According to Regulation (EC) No 1272/2008 [CLP]
Other Hazards (GHS): No specific dangers known, if the regulations/notes for storage and handling are considered.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical nature

Polymer based on: alcohols
C16-C18

Ethoxylated, Starting materials listed in EINECS

4. FIRST AID MEASURES (SYMPTOMS)

Description of first aid measures: Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

On skin contact: Wash thoroughly with soap and water.
Areas affected by molten material should be quickly placed under cold running water. Solidified product should not be pulled from the skin. Burns caused by molten material require hospital treatment. Immediate medical attention required.

On contact with eyes: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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Indication of any immediate medical attention and special treatment needed:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water spray, dry powder, foam

Special hazards arising from the substance or mixture:

 Harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters:

Special protective equipment: Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

Environmental precautions: Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up:

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

Reference to other sections: Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling: Protect against moisture. Shut containers immediately after taking product because product takes up the humidity of air. No special measures necessary provided product is used correctly.

Protection against fire and explosion: Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities: Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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Storage stability: Keep container dry.
The packed product is not damaged by low temperatures or by frost. Bulk must be protected from solidification.

Protect from temperatures above: 70 °C
Properties of the product change irreversibly on exceeding the limit temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Components with workplace control parameters: None.

Exposure controls:

Personal protective equipment:

Respiratory protection: Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).

Hand protection: Chemical resistant protective gloves (EN 374)
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection: Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

| | | |
|------------------------------------|--------------------------------|----------------|
| Form: | paste | |
| Colour: | colourless to yellowish | |
| Odour: | product specific | |
| pH value: | approx. 7 | (DIN EN 1262) |
| | (50 g/l, 23 °C) | |
| Solidification temperature: | approx. 30.00 °C | (DIN ISO 2207) |
| Drop point: | approx. 35 °C | (DIN 51801) |
| Boiling point: | not applicable | |
| Flash point: | > 100 °C (DIN 51758) | |
| Ignition temperature: | > 200 °C (DIN 51794) | |
| Density: | approx. 0.97 g/cm ³ | (DIN 51757) |
| | (60 °C) | |
| Solubility in water: | soluble < 100 g/l | (20 °C) |

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Solubility (qualitative) solvent(s): aromatic hydrocarbons, ethanol soluble

Viscosity, dynamic: approx. 30 mPa.s (60 °C)

Other information: Bulk density: 530 kg/m³

10. STABILITY AND REACTIVITY

Reactivity: No hazardous reactions if stored and handled as prescribed/indicated.
Corrosion to metals: Corrosive effects to metal are not anticipated.

Chemical stability: The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions: No hazardous reactions when stored and handled according to instructions.

Conditions to avoid: See MSDS section 7 - Handling and storage.

Incompatible materials:

Substances to avoid: caustics, halogens, Alkalines, acids, reactive chemicals

Hazardous decomposition products: No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

Experimental/calculated data: LD50 rat (oral): > 2,000 mg/kg

LD50 rat (dermal): > 2,000 mg/kg

Irritation:

Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant (BASF-Test)

Serious eye damage/irritation rabbit: irreversible damage (BASF-Test)

12. ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish: LC50 (96 h) 1 - 10 mg/l, *Leuciscus idus*

Microorganisms/Effect on activated sludge: EC10 > 2,000 mg/l, activated sludge (DEV-L2)

Persistence and degradability:

Elimination information: ≥ 90 % Bismuth-active substance (mod. OECD 303A)

> 60 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC,

C.4-C) Readily biodegradable.

Bioaccumulative potential: Accumulation in organisms is not to be expected.

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Mobility in soil (and other compartments if available):

Assessment transport between environmental compartments: The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is possible.

Results of PBT and vPvB assessment: According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance full-filling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self-classification.

Additional information: Sum parameter

Chemical oxygen demand (COD): 2,105 mg/g

Biochemical oxygen demand (BOD): 400 mg/g

Other ecotoxicological advice: The product has not been tested. The statement has been derived from products of a similar structure or composition.

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom).

Contaminated packaging: Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. TRANSPORT INFORMATION

Land transport:

ADR: Not classified as a dangerous good under transport regulations

RID: Not classified as a dangerous good under transport regulations

Inland waterway transport:

AND: Not classified as a dangerous good under transport regulations

Sea transport:

IMDG: Not classified as a dangerous good under transport regulations

Air transport:

IATA/ICAO: Not classified as a dangerous good under transport regulations

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15. REGULATORY INFORMATION

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

This product is classified under the Chemicals (Hazard Information and Packaging) Regulations, (CHIP) (United Kingdom).

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

Chemical Safety Assessment: The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.