

Section 1. Product and Company Identification

Product Name Polidocanol
CAS Number 9002-92-0

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Section 2. Hazards Identification

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

Acute Tox. 4; H302 - Acute toxicity (oral): Category 4; Harmful if swallowed.

Eye Dam. 1; H318 - Serious eye damage/eye irritation: Category 1; Causes serious eye damage.

Aquatic Chronic 3; H412 - Hazardous to the aquatic environment: Category 3; Harmful to aquatic life with long lasting effects.

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P264 Wash thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER/doctor/....

P330 Rinse mouth.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 3. Composition / Information on Ingredients

Common Name Polidocanol
Synonym(s) Ethoxylated fatty alcohol; Laureth-9 (INCI)
CAS Number 9002-92-0

COMPONENT	CAS NUMBER	CONCENTRATION
Polidocanol	9002-92-0	100% [mass]

Section 4. First Aid Measures

Description of first-aid measures

General information: When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Inhalation: Remove casualty to fresh air and keep warm and at rest. Keep at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

Skin Contact: Remove contaminated, saturated clothing immediately. Wash immediately with water. Do not wash with solvents/thinner.

Eye Contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Ingestion: Call a physician immediately. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed: No information available.

Indication of any immediate medical attention and special treatment needed: None

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam

Unsuitable extinguishing media: None

Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂) Carbon monoxide Nitrogen oxides (NO_x)
Pyrolysis products, toxic

Advice for firefighters

Special protective equipment for firefighters: Use suitable breathing apparatus.

Additional information: Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6. Accidental Release Measures

Spills may cause very slippery surfaces. See protective measures under point 7 and 8.

Personal precautions, protective equipment, and emergency procedures: None

Environmental precautions: Do not allow run-off from firefighting to enter drains or water courses. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid, or universal binding agents). Clean with detergents. Avoid solvent cleaners.

Reference to other sections: None

Section 7. Handling and Storage

Precautions for safe handling: When using do not eat, drink, smoke, sniff. Comply with the health and safety at work laws.

Protective measures

Measures to prevent fire: No specific requirements, provided regulations for storage and applications are followed.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels: Original container tightly closed, preferably at max. 20°C (at max 25°C: apply decreased retest period of 9 months)

Hints on joint storage: No specific requirements, provided regulations for storage and applications are followed.

Storage class (TRGS 510): 12

Further information on storage conditions

No specific requirements, provided regulations for storage and applications are followed.

Section 8. Exposure Controls / Personal Protection

Control parameters: None

Exposure controls

Personal protection equipment

Eye/face protection: Use safety glasses.

Skin protection

Hand protection: Appropriate gloves (nitrile)

Body protection: Work clothing.

Respiratory protection: For most conditions, no respiratory protection is needed; however, if handling at elevated temperature without sufficient ventilation or in presence of aerosols, use an approved air-purifying respirator.

General health and safety measures: Wash hands before breaks and after work.

Occupational exposure controls

Organizational measures to prevent exposure: No specific requirements, provided regulations for storage and applications are followed. Technical measures to prevent exposure.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Color: Colorless

Odor: Characteristic

Physical state: Liquid

Solidifying point: approx. 22°C

Initial boiling point and boiling range: (1013 hPa): none

Decomposition temperature: No data available

Flash point: No data available

Ignition temperature: No data available

Lower explosion limit: Not relevant

Upper explosion limit: Not relevant

Vapor pressure: (50°C) No data available

Density: (20°C) approx. 1.02 g/cm³

Water solubility: (20°C) No data available

pH: (20°C / 100 g/L) approx. 6

log Pow: No data available

Viscosity: (20°C) No data available

Odor threshold: No data available

Relative vapor density: (20°C) Not relevant

Vaporization rate: not relevant

Flammable aerosols: No data available

Oxidizing liquids: Not relevant

Explosive properties: Not relevant

Other information: None

Section 10. Stability and Reactivity

Reactivity: No information available.

Chemical stability: No information available.

Possibility of hazardous reactions: No information available.

Conditions to avoid: Stable under recommended storage and handling conditions(See section 7).

Incompatible materials: Exothermic reaction with:

Hazardous decomposition products: Thermal decomposition can lead to the escape of irritating gases and vapors.

Section 11. Toxicological Information

No skin sensitization was reported in clinical studies with structurally-related products. [Assessment on the biological safety in use of Polidocanol, RCC 1997]

Information on toxicological effects

Acute effects: No information available.

Acute oral toxicity

Parameter: LD-50

Exposure route: Oral

Species: Rat

Effective dose: 1000 mg/kg

Parameter: LD-50

Exposure route: Oral

Species: Mouse

Effective dose: 1170 mg/kg

Source: Assessment on the biological safety in use of Polidocanol, RCC 1997

Parameter: LD-50

Exposure route: Oral

Species: Practical experience/human evidence

Effective dose: 500 - 5000 mg/kg

Source: Assessment on the biological safety in use of Polidocanol, RCC 1997

Practical experience/human evidence: No other information.

Irritant and corrosive effects

Primary irritation to the skin

Parameter: Primäre Reizwirkung an der Haut

Result: mildly to moderately irritant to rabbit skin. [Assessment on the biological safety in use of Polidocanol, RCC 1997]

No information available.

Irritation to eyes

Parameter: Irritation to eyes

Result: Severe irritancy on rabbit eyes [Assessment on the biological safety in use of Polidocanol, RCC 1997]

No information available.

Irritation to respiratory tract: No information available.

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity:

Parameter: EC50

Exposure route: Oral

Species: Rat

Effective dose: 14040 mg/kg

Exposure time: 22 d

Test result: Mutagenicity and Teratogenicity: negativ [Assessment on the biological safety in use of Polidocanol, RCC 1997]

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity: No information available.

Germ cell mutagenicity

In vitro mutagenicity: No information available.

In vivo mutagenicity: No information available.

Reproductive toxicity: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

Section 12. Ecological Information

Toxicity

Aquatic toxicity: Acute (short-term) algae toxicity

Parameter: EC50

Species: water flea

Evaluation parameter: Daphnia magna

Effective dose: 1 - 10 mg/l

Persistence and Degradability

Additional information: Product may not be released into water without pre-treatment (biological sewage plant). This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Results of PBT and vPvB assessment: No information available.

Other adverse effects: No information available.

Additional ecotoxicological information: None

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

UN number: No dangerous good in sense of these transport regulations.

UN proper shipping name: No dangerous good in sense of these transport regulations.

Transport hazard class(es): No dangerous good in sense of these transport regulations.

Packing group: No dangerous good in sense of these transport regulations.

Environmental hazards: No dangerous good in sense of these transport regulations.

Special precautions for user: None

Section 15. Regulatory Information

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

EU legislation

Other regulations (EU)

EU: Verordnung (EG) Nr. 648/2004 über Detergentien (DetVO)

National regulations

CH: Chemikalien-Risikoreduktions-Verordnung, ChemRRV (SR 814.81)

Water hazard class (WGK)

Class: 2 (Hazardous to water)

Chemical safety assessment: No information available.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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