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## 1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 3279**

· **Product name:**

**MULSIFAN ® CPA / Macrogol-4-laurylether**

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH

Herderstr. 31

40721 Hilden

Tel.: 02103/4994-0

Fax: 02103/32360

e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz

Langenbeckstr. 1, 55131 Mainz

Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Warning

· **H-Phrases:**

H318 Causes serious eye irritation.

H400 Very toxic to aquatic life.

· **P-Phrases:**

P273 Avoid release to the environment.

P305 BEI BERÜHRUNG MIT DEN AUGEN:

P351 Einige Minuten lang vorsichtig mit Wasser ausspülen.


P302 IF ON SKIN:

P352 Wash with plenty of soap and water.

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

**Aquatic Acute 1**

**Eye Irrit. 2**

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### 3 Composition / information on ingredients

• **Chemical characterization:**

**CAS-No. Substance name**

5274-68-0 Alcohols, C12-14, ethoxylated

• **EINECS-No.:** 500-213-3

• **REACH Reg. No.:** 01-2119487984-16-0000

• **INCI-Name:** Laureth-4

### 4 First aid measures

- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open , seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Do not induce vomiting. Seek medical advice immediately..
- **Medical advice:** After swallowing and vomiting danger of penetration into lungs. Gastrolavage with addition of dimeticone (defoamer).

### 5 Fire-fighting measures


- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

### 6 Accidental release measures

- **Personal protective measures:** Avoid contact with substance.
- **Environmental protective measures:** Prevent from entering into surface water, the ground water system or soil.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. Disposal according to Chapter 13 of this MSDS. Clean up with water.

### 7 Handling and storage

- **Storage:**
- **Requirements for storage areas and containers:**  
Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ).

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## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Hand protection:** Protection gloves.
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties

- **Form:** liquid
- **Colour:** colourless opal
- **Odour:** characteristic
- **melting point / melting range:** ca. 9 °C
- **Boiling point / boiling range:** > 200 °C
- **Flash point:** > 150 °C DIN EN 22719
- **Density:** (20 °C) 0,94 g/cm<sup>3</sup> DIN 51757
- **Solubility in / Miscibility with**
- **Water:** dispergent
- **pH-range:** (100 g/l, 20 °C) ca. 6
- **Viscosity:** (20 °C) 34 mPas DIN 53018

## 10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:**  
No decomposition during appropriate use.
- **Materials to avoid:** Strong oxidizers, strong acids and bases.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

## 11 Toxicological information

- **Acute toxicity:**  
**LD/LD50-data relevant for hazard classification:**  
LD50 oral, rat: > 2000 mg/kg  
LD50 dermal, rat: > 2000 mg/kg  
LD50 inhal., rat: > 1,6 mg/l/4h
- **Other information (experimental toxicology):**  
Skin irritation ( OECD 404 / Rabbit / 3% ): Not irritant.
- **Additional toxicological informations:**  
Degreasing effect on skin.

## 12 Ecological information

- **Information about elimination (persistence and degradability):**  
Elimination > 60 %, 14d readily biodegradable in water.
- **Ecotoxic effects:**  
Fische: LC50 Brachydanio rerio > 0,1 mg/l/96h  
Daphnien: EC50 Daphnia magna: > 0,1 mg/l/48h  
Algen: EC50 Pseudokirchn. Sc. > 0,1 mg/l/72h

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Algen: EC10 Pseudokirchn. Sp. > 10000 mg/l/17h

• **Behaviour in sewage plants:** Does not cause any disorder in the biodegrading activity.

• **Additional information:**

CSB: 2348 mg/g ( DIN 38409 H41 )

BSB: 1467 mg/g after 5 days ( DIN 38409 H51 )

• **Water hazard class:** 1 (Self classification): slightly hazardous for water

### 13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

### 14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Environmentally hazardous liquid, n.o.s., Macrogol-4-laurylether
- **Class:** 9
- **UN-number:** 3082
- **Packing group:** III
- **Classification code:** M6
- **Limited quantities (Table 3.4.6. ADR):** 5 L
- **Hazard classification number:** 90
- **Special provisions (Chapter 3.3 ADR):** 274
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-F
- **Properties:** m.p.

### 15 Regulatory information

• **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

• **Hazard symbols:** GHS07, GHS09

• **Signal word:** Warning

• **H-Phrases:**

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• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

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- **Storage class TRGS 510:** 10
- **VbF class:** -

## 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.