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

· Informations to product No. 2417

· Product name:

**Menthol, API**  
 Mentholum verum recryst., Levomentholum

· 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:

H315 Causes skin irritation

H319 Causes serious eye irritation

· P-Phrases:

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

P302 IF ON SKIN:


P352 Wash with plenty of soap and water.

P332 If skin irritation occurs:

P313 Get medical advice/attention.

**Skin Irrit. 2**

**Eye Irrit. 2**

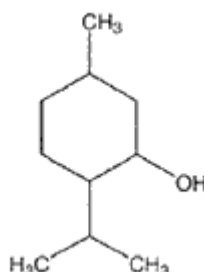
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### 3 Composition / information on ingredients

**CAS-No. Substance name**

2216-51-5 (-)-Menthol

- **EINECS-No.:** 218-690-9
- **REACH-Reg. No.:** 01-2119458866-21-0000
- **INCI-Name:** Menthol
- **Chemical characterization:**



### 4 First aid 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.

### 5 Fire-fighting measures

- **Personal protective measures:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

### 6 Accidental release measures

- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.
- **Environmental protective measures:** Prevent from entering into drains.

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## 7 Handling and storage

- **Handling:** Good ventilation / exhaustion of working place.
- **Storage:**
- **Requirements for storage areas and containers:** Keep container tightly closed. Store at a good ventilated place. Keep away from heat and ignition sources. At room temperature ( +15°C to +25°C ).

## 8 Exposure controls / personal protective equipment

- **Components with limit values that require monitoring at the workplace:** The product does not contain relevant quantities of substances with limit values that require monitoring at the workplace.
- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Good ventilation / exhaustion of working place.
- **Hand protection:** Protection gloves of rubber or latex or PVZ, for full contact 15 minutes maximum: Neopren. Suitable gloves for enduring contact, Material: Nitrile rubber/Nitrile latex Penetration time > 480 min., Thickness: 0,35 mm.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties


- **Form:** solid
- **Colour:** white
- **Odour:** strong smell of peppermint
- **Melting point / melting range:** 42,1 – 43,4 °C
- **Flasch point:** 101 °C
- **Ignition temperature:** 405 °C
- **Explosion limits:**  
Upper: 7 Vol %  
Lower: 0,8 Vol %
- **Density:** ca. 1 g/ccm
- **Bulk density::** 450 kg/m3
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 0,431 g/l

## 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:**  
2216-51-5 (-)-Menthol

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Oral: LD50: 3300 mg/kg (rat)  
Dermal: LD50: >5000 mg/kg (rab)

- **Primary irritating effect:**
- **on skin:** Irritant effect on skin and mucous membranes.
- **on eyes:** Slight irritant effect.
- **Sensitization:** no sensitizing effect known

## 12 Ecological information

- **Information about elimination (persistence and degradability):**  
The product is according to OECD-criteria easily biodegradable..
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:** log P(o/w): 3,25
- **Ecotoxic effects:**  
IC50/nn (bacteria): 237 mg/l  
LC0/96 h (fish): 16 mg/l  
Remark: Harmless to fish up to the latest concentration
- **Water hazard class:** nwg (self classification): not 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:** Not classified as dangerous in the meaning of transport regulations.

## 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
- **Signal word:** Warning
- **H-Phrases:**  
H315 Causes skin irritation  
H319 Causes serious eye irritation
- **P-Phrases:**  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302 IF ON SKIN:  
P352 Wash with plenty of soap and water.  
P332 If skin irritation occurs:  
P313 Get medical advice/attention.
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12

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· **Storage class TRGS 510:** 11

## 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.