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

- Informations to product No. g33b
- Product name:

**Eugenol**  
Eugenolum

- 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:

H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction

- P-Phrases:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305 IF IN EYES:  
P351 Rinse cautiously with water for several minutes.

**Eye Irrit. 2**  
**Skin Sens. 1**

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### 3 Composition / information on ingredients

**CAS-No. Substance name**

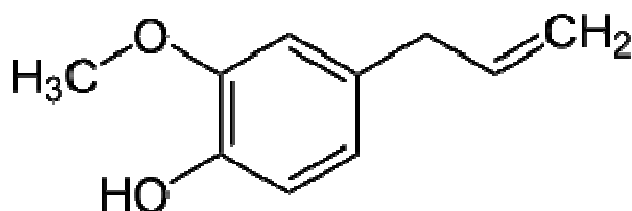
97-53-0 Eugenol,

• **EINECS-No.:** 202-589-1

• **REACH Reg. No.:** 01-2119971802-33-0000

• **INCI-Name:** Eugenol

• **Chemical characterization:**



### 4 First aid measures

- **after inhalation:** Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **after skin contact:** Wash off with water, remove contaminated clothing.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If feeling unwell continuously seek medical advice.
- **after swallowing:** If irritations continue, seek medical advice.

### 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. Wear suitable protective equipment according to Chapter 8 of this MSDS.
- **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.
- **Additional information:** Prevent from entering into drains, prevent from contaminating surface water or the ground water system.

### 7 Handling and storage

- **Handling:** Good ventilation / exhaustion of working place. Avoid formation of aerosols.
- **Informations to fire or explosion protection:** Good ventilation / exhaustion of working place and

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storage place.

- **Storage:**
- **Requirements for storage areas and containers:**  
Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ). Store at a good ventilated place.
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** none

## 8 Exposure controls / personal protective equipment

- **Components with limit values that require monitoring at the workplace:** Eugenol
- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Only required if aerosols or vapours are generated.
- **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:** liquid
- **Colour:** colourless
- **Odour:** Strong smell of cloves
- **Melting point / melting range:** -9,2 °C
- **Boiling point / boiling range:** not determined
- **Flash point:** 116 °C
- **Density:** (20 °C) 1,06 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** 2,12 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:**  
LD50(oral, Rat): 2680 mg/kg  
LD50(dermal, Rabbit): > 2000 mg/kg
- **Primary irritant effect:**
- **on skin:** Irritant effect on skin and mucous membranes.

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- **on eyes:** Irritant effect.
- **Sensitization:** Sensitization by skin contact possible.

## 12 Ecological information

- **Ecotoxicological effects:** Toxic for fishes.
- **General advices:** Do not allow product to reach ground water, water course or sewage system.
- **Water hazard class:** 1 (VwVwS): 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:**  
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:**  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction
- **P-Phrases:**  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305 IF IN EYES:  
P351 Rinse cautiously with water for several minutes.
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **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.