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

- **Informations to product No. 4854**
- **Product name:**

### Dronabinol, API

- **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:**


H302 Harmful if swallowed  
H361 Suspected of damaging fertility or the unborn child

- **P-Phrases:**

P201 Obtain special instructions before use  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P308 IF exposed or concerned  
P313 Get medical advice/attention

**Acute Tox. 4**

**Repr. 2**

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### 3 Composition / information on ingredients

**CAS-No. Substance name**

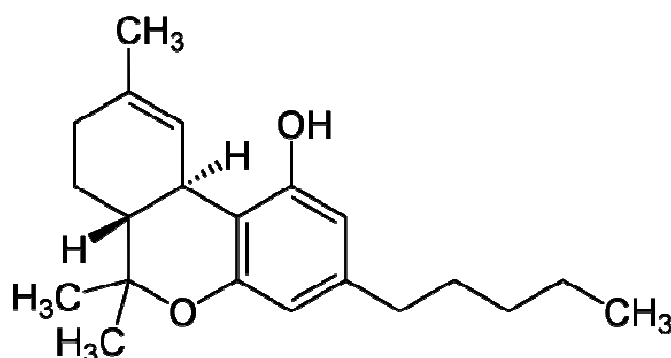
1972-08-3 Dronabinol

· **EINECS-No.:** 625-153-6

· **REACH Reg. No.:** -

· **INCI-Name:** -

· **Chemical characterization:**



### 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. Call in ophthalmologist.
- **after swallowing:** Drink plenty of water. Induce vomiting. Seek medical advice immediately.

### 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 but not flammable. In case of fire dangerous gases / vapours can be released: 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:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

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## 7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Wear protective equipment (See chapter 8).
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (15°C to 25°C). Protect from light.
- **Advices on common storage:** Not required.

## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:**  
Keep away from food, beverages and animal food.  
Wash hands before breaks and after work.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties


- **Form:** highly viscous resin
- **Colour:** white crystalline powder
- **Odour:** faint, aromatic
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** 155 – 157 °C (6,5 Pa)
- **Solubility in / Miscibility with**
- **Water:** (20 °C) ca. 0,003 g/l
- **pH-range:** neutral

## 10 Stability and reactivity

- **Hazardous decomposition products:**  
At high temperatures irritant or harmful vapours are released.

## 11 Toxicological information

- **Acute toxicity:**  
LD50, mouse, oral: 482 mg/kg  
LD50 mouse, i.v.: 42 mg/kg  
LD50 rat, oral: 666 mg/kg  
LD50 rat, i.v.: 29 mg/kg  
Toxity values in the literature are very different.
- **Primary irritant effect:**
- **on skin:** Slightly irritant.
- **on eyes:** Slightly irritant.

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## 12 Ecological information

- **Ecotoxicological effects:**

Quantitative ecotoxicological data for this product are not available.

- **General advices:** Prevent from leaking into ground water, environment waters or drainage.
- **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:**  
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:** GHS08, GHS07

- **Signal word:** Danger

- **H-Phrases:**

H302 Harmful if swallowed

H361 Suspected of damaging fertility or the unborn child

- **P-Phrases:**

P201 Obtain special instructions before use

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

P308 IF exposed or concerned

P313 Get medical advice/attention

- **National regulations (Germany):**

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

- **Storage class TRGS 510:** 6.1C

## 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.