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

· **Informations to product No. 4848**

· **Product name:**

Dihydrocodein[(R,R)-tartrat], API Dihydrocodeinhydrogentartrat

· **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

3 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Warning

· **H-Phrases:**

H302 Harmful if swallowed

· **P-Phrases:**

P301 IF SWALLOWED:

P313 Get medical advice/attention

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

Acute Tox. 4

3 Composition / information on ingredients

CAS-No. Substance name


5965-13-9 Dihydrocodeinhydrogentartrat

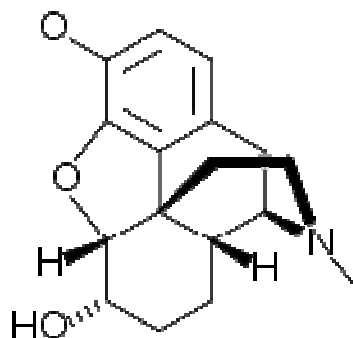
· **EINECS-No.:** 227-74-77

· **REACH Reg. No.:** (pre-registered)

· **INCI-Name:** -

· **Chemical characterization:**

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' 1 Tartaric acid

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 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.

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.

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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:** solid
- **Colour:** white crystalline powder
- **Odour:** odourless
- **Melting point / melting range:** 193 °C
- **Boiling point / boiling range:** not determined
- **Solubility in / Miscibility with**
- **Water:** (20 °C) ca. 200 g/l
- **pH-range:** (100 g/l, 20 °C) 3,4 - 4,2

10 Stability and reactivity

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

11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**
- TDLO: (i.v., Mensch):** 357 µg/kg
- LD50: (oral, Rat):** 359 mg/kg
- LD50: (i.p., Mouse):** 252 mg/kg
- LD50: (s.c., Mouse):** 350 mg/kg
- LD50: (s.c., Rabbit):** 142 mg/kg
- LDLO: (s.c., Rabbit):** 39 mg/kg
- LDLO: (parenteral, Rabbit):** 116 mg/kg
- **Primary irritant effect:**
- **on skin:** Slightly irritant.
- **on eyes:** Slightly irritant.
- **Additional toxicological informations:** Systemic effects: Illness, Respiratory insufficiency.
Causes Fatigue, Dizziness, Inconsciousness, systemisce Effects.
No indication for carcinogene effect. Teratogene and mutagene effect not completely examined.

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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:** 2 (self classification): 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:**
H302 Harmful if swallowed
- **P-Phrases:**
P301 IF SWALLOWED:
P313 Get medical advice/attention
P280 Wear protective gloves/protective clothing/eye protection/face protection
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **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.