


<p>Page 1 of 5</p> <p>Print Date 22.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Propranololhydrochlorid, API</p>	 <p>Revision Date 22.11.2018</p>
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1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 4560**

· **Product name:**

Propranololhydrochlorid, API Propranololi hydrochloridum

· **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.

· **P- Phrases:**

P301 IF SWALLOWED:

P311 Call a POISON CENTER or doctor/physician.

Acute Tox. 4


3 Composition / information on ingredients

CAS-No. Substance name

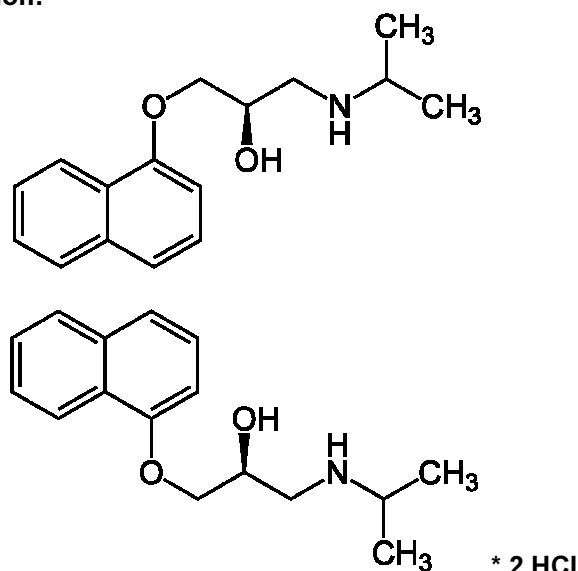
318-98-9 Propranololhydrochlorid

· **EINECS-No.:** 206-268-7

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

Page 2 of 5 Print Date 22.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Propranololhydrochlorid, API	 Revision Date 22.11.2018
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- **INCI-Name:** -
- **Chemical characterization:**



4 First aid measures


- **After inhalation:** Fresh air. Get medical advice.
- **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.
- **After swallowing:** Drink water. Induce vomiting. 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: Hydrochloric acid, organic halogen compounds, nitrogen oxides.
- **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.

<p>Page 3 of 5</p> <p>Print Date 22.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Propranololhydrochlorid, API</p>	 <p>Revision Date 22.11.2018</p>
---	---	---

7 Handling and storage

- **Handling:** Ensure good ventilation / exhaustion at the workplace. Avoid formation of dust, aerosol.
- **Advice on safe handling:** The usual precaution measures during handling of chemicals are to observe.
- **Informations to fire or explosion protection:** No special measures required.
- **Storage:**
- **Requirements for storage areas and containers:** No special measures required.
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** Tightly closed. Store at a dry place. At room temperature 15-25°C.

8 Exposure controls / personal protective equipment


- **Personal protective equipment:**
 - **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
 - **Respiratory protection:** Dust protection mask.
 - **Hand protection:** Protection gloves of rubber or latex.
- The product may cause skin sensitization. It must be known, that by the removing gloves and other protective clothing, all possible skin contact should to be avoid.
- **Eye protection:** Tightly closing Safety glasses
 - **Skin protection:** Protective clothing

9 Physical and chemical properties

- **Form:** fine crystalline powder.
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 163 - 166 °C
- **Boiling point / boiling range:** not determined
- **Solubility in / Miscibility with**
- **Water:** soluble
- **Ethanol:** soluble
- **pH-value:** 5 - 6 (1% solution)

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Materials to avoid:** oxidants and strong acids
- **Hazardous reactions:** reactions with the strong oxidants and strong acids
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide, Hydrochloric acid, Nitrogen oxides.

<p>Page 4 of 5</p> <p>Print Date 22.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Propranololhydrochlorid, API</p>	 <p>Revision Date 22.11.2018</p>
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11 Toxicological information

• Acute toxicity:

Oral (mause) LD50: 380 mg/kg
 Intraperitoneal (mause) LD50: 87.6 mg/kg
 Intravenous (mause) LD50: 33.3 mg/kg
 Intravenous (Human) TDLo: 0.1 mg/kg
 Oral (Human) TDLo: 160 mg/kg
 Oral (rat) LD50: 466 mg/kg
 Intraperitoneal (rat) LD50: 76 mg/kg
 Subcutaneous (rat) LD50: 115 mg/kg
 Oral (Human) LD: 64 mg/kg
 Oral (Human) LD: 34 mg/kg
 Oral (Human) TDLo: 417 mg/kg
 Intravenous (Human) LD: 0.04 mg/kg
 Oral (mause) LD50: 320 mg/kg
 Intraperitoneal (mause) LD50: 80 mg/kg
 Subcutaneous (mause) LD50: 208 mg/kg
 Intravenous (mause) LD50: 18 mg/kg
 Intravenous (dog) LD: 22.811 mg/kg
 Intravenous (Guinea pig) TDLo: 1 mg/kg
 Oral (rabbit) LD50: 600 mg/kg
 Intravenous (rabbit) LD50: 12.5 mg/kg
 Intravenous (Guinea pig) LD: 28.1 mg/kg
 Intraperitoneal (rat) TDLo: 0.5 mg/kg
 Intravenous (rat) LD50: 40 mg/kg

• Primary irritant effect:

On skin: irritant to the skin

On eyes: irritant

by swallowing: irritant

• **Sensitization:** possible during the skin contact. The product may cause skin sensitization must be taken when removing gloves and other protective clothing to avoid all possible skin contact.

12 Ecological information

• Ecotoxical effects:


EC50 (algae) / 72h: growth rate 3,78 mg/l
 EC50 (algae) / 72h: biomass 0,78 mg/l
 NOEC50 (algae) / 72h: growth rate 0,156 mg/l
 EC50 (bacteriae): 10 - 100 mg/l
 EC50 (Daphnia magna)/ 48h: 1 – 10 mg/l

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

• **General advices:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

• **Recommendation:** Disposal according to local regulations as pharmaceutical waste.

Page 5 of 5 Print Date 22.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Propranololhydrochlorid, API	 Revision Date 22.11.2018
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- **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:
P311 Call a POISON CENTER or doctor/physician.
- **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.