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

• **Informations to product No. 4892**

• **Product name:**

Morphinsulfat / Morphinhemisulfat-Pentahemihydrat, 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:** Danger

• **H-Phrases:**

H301 Toxic if swallowed

H331 Toxic if inhaled

H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H361d Suspected of damaging fertility or the unborn child

H362 May cause harm to breast-fed children

• **P-Phrases:**

P262 Do not get in eyes, on skin, or on clothing


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

P301 IF SWALLOWED:

P310 Immediately call a POISON CENTER or doctor/physician

P501 Dispose of contents/container to dangerous wastes

P202 Do not handle until all safety precautions have been read and understood

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Acute Tox. 3
Skin Sens. 1
Resp. Sens.1
Repr. 2
Lact.

3 Composition / information on ingredients

· **Chemical characterization:**

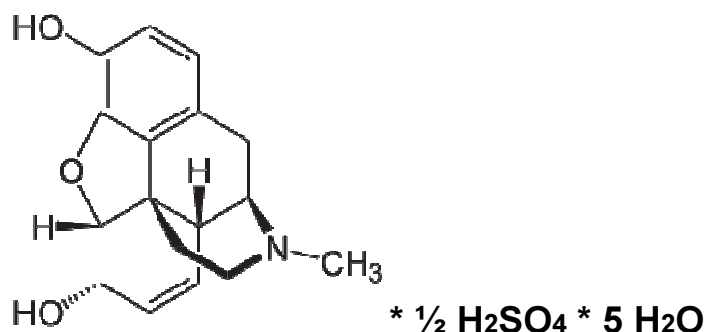
CAS-No. Substance name

6211-15-0 Morphine sulfate pentahydrate

· **EINECS-No.:** 200-582-8

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

· **INCI-Name:** -




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, Hydrogen chloride.
- **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.

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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.

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:** Crystalline powder
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** ca. 250 °C (Decomposition)
- **Boiling point / boiling range:** not determined
- **Solubility in / Miscibility with**
- **Water:** 5 g/l
- **pH-range:** 2,5 – 6,5

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:**
(all data for anhydrous morphine hydrochloride)

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LD50: (oral, Rat): 335 mg/kg
LD50: (i.p., Rat): 420 mg/kg
LD50: (s.c., Rat): 480 mg/kg
LD50: (i.v., Rat): 265 mg/kg
LD50: (oral, Mouse): 745 mg/kg
LD50: (uNo., Rat): 310 mg/kg
LDL0: (i.s., Rat): 2 mg/kg
LD50: (i.p., Mouse): 148 mg/kg
LD50: (s.c., Mouse): 354 mg/kg
LD50: (i.c., Mouse): 3,5 mg/kg
LD50: (i.v., Mouse): 180 mg/kg
LD50: (Parenteral, Mouse): 440 mg/kg
LD50: (i.p., Rabbit): 500 mg/kg
DLL0: (oral, Rabbit): 700 mg/kg
LD50: (i.v., Rabbit): 135 mg/kg
LD50: (s.c., Rabbit): 398 mg/kg
LD50: (i.v., guinea pig): 340 mg/kg
LDL0: (i.a., guinea pig): 60 mg/kg
LD50: (i.v., dog): 175 mg/kg
LD50: (oral, Rat): 335 mg/kg
TCL0: (repr., i.p., Rat): 20 mg/kg (female 21? after conception)
TDL0: (repr., i.p., Rat): 220 mg/kg (female 9-19 d after conception)
TDL0: (s.c., Rat): 840 mg/kg (female 4-10 d after conception)
TDL0: (s.c., Rat): 480 mg/kg (female 7-10 d after conception)
TDL0: (s.c., Rat): 1260 mg/kg (male 21 d premating)

• **Primary irritant effect:**

• **on skin:** Slightly irritant

• **on eyes:** Slightly irritant

• **Additional toxicological informations:**

Sensitization by inhalation and skin contact possible. The following symptoms might occur: Erythrema, Irritation of skin, Illness, Vomiting, respiratory insufficiency, Asthma, Dizziness, Headache, Fatigue, Inconsciousness.

Can be harmful for the unborn child. Reproduction toxic.

No evidence of carcinogenic effect.

12 Ecological information

• **Ecotoxic 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.

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14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Toxic solids, organic, n.o.s., Morphin sulfate
- **Class:** 6.1
- **UN-number:** 2811
- **Packing group:** III
- **Classification code:** T2
- **Limited quantities (Table 3.4.6. ADR):** 5 kg
- **Hazard classification number:** 60
- **Special provisions (Chapter 3.3 ADR):** 274, 614
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-A
- **Properties:** -

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:** GHS06, GHS08
- **Signal word:** Danger
- **H-Phrases:**
H301 Toxic if swallowed
H331 Toxic if inhaled
H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H361d Suspected of damaging fertility or the unborn child
H362 May cause harm to breast-fed children
- **P-Phrases:**
P262 Do not get in eyes, on skin, or on clothing
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician
P501 Dispose of contents/container to dangerous wastes
P202 Do not handle until all safety precautions have been read and understood
- **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.