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

· **Informations to product No. 2224**

· **Product name:**

Ephedrinhydrochlorid, API
Ephedrinum hydrochloricum plv.

· **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:

P312 Call a POISON CENTER or doctor/physician if you feel unwell

Acute Tox. 4


3 Composition / information on ingredients

CAS-No. Substance name

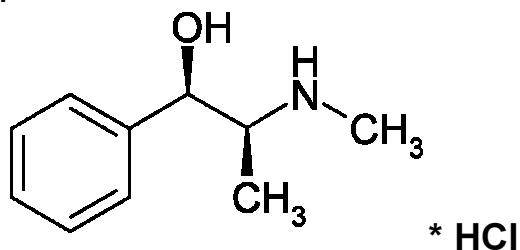
50-98-6 (-)-Ephedrine hydrochloride

· **EINECS-No.:** 200-074-6

· **EG-Index-No.:** 614-024-00-X (Salts of Ephedrine)

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- **REACH Reg. No.:** 01-2120012195-69-0000
- **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 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: Smoke gases, Hydrogen chloride. Precipitate vapours with water.
- **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 substance contact and dust generation.
- **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.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** No special measures required.
- **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:** colourless
- **Odour:** odourless
- **Melting point / melting range:** 217 - 220 °C
- **Boiling point / boiling range:** not determined
- **Density:** (20 °) 1,28 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °) ca. 300 g/l
- **pH-value:** (50 g/l, 20 °C) 4,5 – 6,5

10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:** Thermal decomposition: 212 °C.
No decomposition during appropriate use.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none.
- **additional information:** Light sensitive.

11 Toxicological information

- **Acute toxicity:**
- **LD/LD50-data relevant for hazard classification:**
LD50 (oral, rat): 710 mg/kg (BASF-Test)
LC50 (inhal., rat): > 5,2 mg/l (BASF-Test)
LD50 (dermal, rat): > 2.000 mg/kg (BASF-Test)
- **Primary irritating effect:**
- **on skin:** slightly irritant.
- **on eyes:** slightly irritant.
- **Additional toxicological informations:** Systemic effects: Cramps, raise in blood pressure, illness, respiratory insufficiency. Can damage the function of kidneys.

12 Ecological information

- **Information about elimination (persistence and degradability):**
Readily biodegradable: 90 - 100 % DOC-reduction (18 d) (OECD 301 A)

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• **Aquatic toxicity:**

Fische LC50 (96 h) 460 mg/l, Leuciscus idus (DIN 38412)
Daphnien EC50 (48 h) 56,1 mg/l, Daphnia magna (OECD 202)
Algen EC50 (72 h) 90,7 mg/l Desmodesmus subspicatus (OECD 201)
Bakterien EC20 (0,5 h) ca. 700 mg/l, (OECD 209, aerob)
EC50 (17 h) 6.400 mg/l, Pseudomonas putida (DIN 38412)

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

• **log p(O/W):** (23 °C, pH 7) -1,54

• **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:**

H302 Harmful if swallowed

• **P-Phrases:**

P301 IF SWALLOWED:

P312 Call a POISON CENTER or doctor/physician if you feel unwell

• **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.