



PHENYLEPHRINE HYDROCHLORIDE

MATERIAL SAFETY DATA SHEET

1. Identification of the substance/preparation

Common name : Phenylephrine Hydrochloride
Formula : $C_9H_{13}NO_2 \cdot HCl$
Molecular weight : 203.67
Synonym : m-Synephrine Hydrochloride
Chemical name : (R)-1-(3-Hydroxyphenyl)-2-methylaminoethanol Hydrochloride
Chemical family : A phenethylamine derivative
Therapeutic category : Adrenergic (ophthalmic)

2. Hazards identification

Classification of the substance:

Acute toxicity, oral; Hazard category: 4

The product is used a pharmaceutical active substance. All precautions for drugs and pharmaceuticals should thoroughly be observed.

Label elements:

Labelling according to current EC-Regulation:

Hazard pictograms



Signal word: Warning!

Hazard statements:

H302 Harmful if swallowed

Precautionary statements:

P260 Do not breathe dust

P270 Do not eat, drink or smoke when using this product

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

P301+ P312+P330 IF SWALLOWED: Call a POISON CENTER or doctor/if you feel unwell. Rinse mouth.

3. Composition/information on ingredients

Components	: (R)-1-(3-Hydroxyphenyl)-2-methylaminoethanol Hydrochloride
Formula	: $C_9H_{13}NO_2 \cdot HCl$
MW	: 203.67 g/mol
CAS No.	: 61-76-7
RTECS No.	: DO7525000
EC No.	: 200-517-3
Symbol	: Xn
R-pharse	: R22
Conc.	: 100%

4. First aid measures

General advice	: Move out of dangerous area. Do not leave affected persons unsupervised. Seek medical treatment. Protection is needed for the First Aider.
Eye contact	: Rinse opened eye for several minutes under running water. Protect unharmed eye.
Skin contact	: Wash off immediately with plenty of water. Take off all contaminated clothing immediately.
Inhalation	: Supply fresh air or oxygen; call for doctor.
Ingestion	: Clean mouth with water and drink afterwards plenty of water.

5. Fire-fighting measures

Specific hazards during fire fighting	: Can be released in case of fire: nitrogen oxides (NOx), Hydrogen chloride gas
Special protective equipment for fire-fighters	: Wear self contained breathing apparatus for fire fighting if necessary.
Suitable extinguishing media	: water, foam, carbon dioxide (CO ₂), dry powder.

6. Accidental release measures

- Personal precautions : Wear protective equipment. Keep unprotected persons away.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up : Take up mechanically and collect in suitable container for disposal. Use a suitable vacuum cleaner.

7. Handling and storage

Handling

- Safe handling advice : Use only in area provided with appropriate exhaust ventilation.
- Advice on protection against fire and explosion : Dust may form explosive mixture in air. Keep away from heat and sources of ignition. Take precautionary measures against static discharges.
- Dust explosion class : St2

Storage

- Requirements for storage areas and containers : Jointless smooth floor. Keep locked-up. Protect from heat and direct sunlight.
Storage: Recommended storage temperature 25°C.
Reanalysis date: see COA.
- German storage class : 11.00 Combustible Substances

8. Exposure controls / Personal protection

- Additional technical information on the plant : Local exhaust

Components with workplace control parameters

Components	CAS-No.	Value	Factor	Basis	Note
(R)-1-(3-Hydroxyphenyl)-2-methylaminoethanol Hydrochloride	61-76-7	0.005 mg/m3		BIEL	BIEL-Group 3
(R)-1-(3-Hydroxyphenyl)-2-methylaminoethanol Hydrochloride	61-76-7	0.03 mg/m3		BIEL	BI-STEL, 15 min. 4x
(R)-1-(3-Hydroxyphenyl)-2-methylaminoethanol Hydrochloride	61-76-7	0.015 mg/m3		BIEL	BI-STEL, 60 min. 2x
Factor = Exceeding factor for short-time exposure					

Personal protective equipment

Respiratory protection	: Protecting mask (EN 136) particle filter P3 (EN 143)
Hand protection	: Chemical safety glove category III (EN 374). Camatril, green (Nitrile). Order-No. 732. Company KCL. resistance (permeability) Level 6 (480 min)
Eye protection	: Goggles. (Not necessary when using full face mask)
Skin and body protection	: Protective work clothing.
Additional advice	: Only use protective equipment in accordance with national/international regulations. Follow the national regulations about wearing personal protective equipment and the warranty given by the manufacturer for the safe function.
Hygiene measures	: Keep working clothes separately. Wash hands before breaks and at the end of workday.
Protective measures	: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not breathe dust.

9. Physical and chemical properties

Appearance and odor	: White or off-white crystalline powder; odorless.
Melting point	: 140-145°C
Ignition temperature	: 480°C
Solubility in water	: Freely soluble
Evaporation rate	: < 1
Flammability of gases produced at smoldering temperature	: Inflammable

10. Stability and reactivity

Thermal decomposition	: To 153°C at 2.5 K/min Method: differential thermal analysis (DTA) No exothermic reaction at temperature rise.
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11. Toxicological information

Acute oral toxicity	: LD50 350 mg/kg rat LD50 120 mg/kg mouse
Acute toxicity (other route)	: LD50 intraperitoneal 89,000 mg/kg (mouse)
Acute toxicity (other route)	: LD50 intraperitoneal 17,000 mg/kg (rat)
Acute toxicity (other route)	: LD50 subcutaneous 22 mg/kg (mouse)
Skin irritation	: No skin irritation (rabbit)
Eye irritation	: No eye irritation
Ames test	: Negative

12. Ecological information

Further information	: At present there are no ecotoxicological assessments. Do not flush into surface water or sanitary sewer system.
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13. Disposal considerations

Product	: Must not be disposed off together with household garbage. Do not allow product to reach sewage system. Dispose of in accordance with local regulations.
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14. Transport information

Further information	: Not classified as dangerous in the meaning of transport regulations. For the internal transport: use only released containers. Use only tightly closed containers. In accordance with the regulations the container must be labeled. Protect container against fall down.
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15. Regulatory information

Federal and State Regulations:

Other Regulations:

OSHA: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

EINECS:

Canada:

China:

Japan:

Korea:

Philippines:

Australia:

Other Classifications:

WHMIS (Canada): D-2B. Cause other toxic effects.

DSCL (EEC):

R22- Harmful if swallowed. R36/38- Irritating to eyes and skin. R40-Possible risks of irreversible effects. R62-Possible risk of impaired fertility. S2-Keep out of the reach of children. S36/37-Wear suitable protective clothing and gloves. S46-If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

16. Other information

R-phrases

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