

## Material Safety Data Sheet



### **SYN-TECH CHEM. & PHARM. CO., LTD.**

No.168 KAI YUAN RD., HSIN-YING 730, TAIWAN R.O.C.

TEL : (886)66362121

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Approval date : Jan.14, 2011

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#### **1. Identification of the substance/preparation and the company/undertaking**

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)
Supplier's name	: Syn-Tech Chem. & Pharm. Co., Ltd.
Address	: No. 168 Kai Yuan Rd., Hsin-Ying, Taiwan R.O.C.
Tel	: 886-6-6362121
Fax	: 886-6-6351165
E-mail	: syntech@ms1.hinet.net
Emergency information	: Call chemtrec
Tel	: 800-424-9300

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## **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.

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#### **3. Composition/information on ingredients**

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

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#### **5. Fire-fighting measures**

Specific hazards during fire fighting : Can be released in case of fire: nitrogen oxides (NO<sub>x</sub>), 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<sub>2</sub>), dry powder.

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#### **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.

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#### 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

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#### **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

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#### **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.

#### **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.

#### **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.

#### **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.



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#### **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:**

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#### **16. Other information**

##### **R-phrases**

(R)-1-(3-Hydroxyphenyl)-2-

R22

Harmful if swallowed.

methylaminoethanol

Hydrochloride

CAS No.: 61-76-7

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.