

**SIGMA-ALDRICH****SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Product name : (-)-Scopolamine hydrochloride

Product Number : S1013

Brand : Sigma

Company : Sigma-Aldrich (Shanghai) Trading Co.,Ltd  
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**2. HAZARDS IDENTIFICATION****Risk advice to man and the environment**

Very toxic by inhalation, in contact with skin and if swallowed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : Hyoscinehydrochloride  
Scopine tropate

Formula :  $C_{17}H_{21}NO_4 \cdot HCl$

CAS-No.	EC-No.	Index-No.	Classification	Concentration
<b>(-)-Scopolamine hydrochloride</b>				
55-16-3	200-225-6	614-015-00-0	T+, R26/27/28	<= 100 %
<b>Ethanol</b>				
64-17-5	200-578-6	603-002-00-5	F, R11	5 %

For the full text of the R-phrases mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods for cleaning up**

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Eye protection**

Face shield and safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	powder
Colour	white

### Safety data

pH	no data available
Melting point	no data available
Boiling point	no data available
Flash point	77 °C - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Irritation and corrosion

no data available

### Sensitisation

no data available

### Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Potential Health Effects

Inhalation	May be fatal if inhaled. May cause respiratory tract irritation.
Skin	May cause skin irritation. May be fatal if absorbed through skin.
Eyes	May cause eye irritation.
Ingestion	May be fatal if swallowed.
Target Organs	Nerves., Liver, Heart,

### Additional Information

RTECS: CY1634501

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****ADR/RID**

UN-Number: 1544 Class: 6.1 Packing group: III  
Proper shipping name: ALKALOID SALTS, SOLID, N.O.S.

**IMDG**

UN-Number: 1544 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
Proper shipping name: ALKALOID SALTS, SOLID, N.O.S.  
Marine pollutant: No

**IATA**

UN-Number: 1544 Class: 6.1 Packing group: III  
Proper shipping name: Alkaloid salts, solid n.o.s.

**15. REGULATORY INFORMATION****Labelling according to EC Directives**

EC Label

Hazard symbols

T+ Very toxic

R-phrases

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

S-phrases

S28 After contact with skin, wash immediately with plenty of water.

S36/37 Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous components which must be listed on the label:

55-16-3 (-)-Scopolamine hydrochloride

**16. OTHER INFORMATION****Text of R-phrases mentioned in Section 3**

R11 Highly flammable.

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

**Further information**

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