

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification**Product Name** Scopolamine Hydrobromide USP Trihydrate**Commercial Name** Not available.**Product Use** Not available.**Restrictions On Use** Not available.**Product Code** 50-1372**Company** PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300**Section 2: Hazard(s) Identification****OSHA Haz Com:** Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Acute toxicity, Inhalation
CFR 1910.1200 (Category 2) Acute toxicity, Dermal (Category 1) Acute toxicity, Oral (Category 2)**Signal Word** DANGER**Hazard Statement(s)** Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled.**Pictogram(s) or Symbol(s)****Precautionary Statement(s):**

Prevention	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash hands thoroughly after handling. Wear protective gloves/ protective clothing. Wear respiratory protection.
Response	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Gently wash with plenty of soap and water.
Storage	Not available
Disposal	Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture	Substance
Components	Scopolamine HBr
% By Weight	100
CAS#	6533-68-2
Molecular Weight	438.32 g/mole
Chemical Formula	C ₁₇ H ₂₁ NO ₄ .HBr.3H ₂ O
Synonym(s)	[7(S)-(1alpha,2beta,4beta,5alpha,7 eta)]-alpha-(Hydroxymethyl)benzen cetic acid 9-methyl-3-oxa-9-azatr yclo[3,3,1,0]non-7-yl ester hydrobromide

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Scopolamine HBr	6533-68-2	100	Not available.	ORAL (LD50):Acute: 1270mg/kg [Rat].1880 mg/kg[Mouse].

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Section 4: First-Aid Measures

Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Symptoms/Effects	
Acute	Not available
Delayed	Not available
Immediate Medical Attention	Not available.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Unsuitable Extinguishing Media

Not available.

Products of CombustionThese products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), halogenated compounds.**Firefighters Special Equipment and Precautions**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes Unusual fire & Explosions :
Emits harmful fumes under fire conditions

Section 6: Accidental Release Measures

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves, sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Evacuate area. Section – 7 & 8 (Handling & Storage)

Section 7: Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Handling: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.



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Personal Protection

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. In Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9: Physical and Chemical Properties

Appearance	Solid. (Crystalline granules solid.) Color: White.		
Odor	Odorless.		
Odor Threshold	Not available.		
Melting Point	197.0C With decomposition	pH	Not available.
Freezing Point	Not available.	Vapor Pressure	Not applicable.
Boiling Point/Range	Decomposes.	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available.	Evaporation Rate	Not available.
Flash Point	Not available.	Autoignition temperature	Not available.
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	Freely soluble		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	The product is stable.
Hazardous Polymerization	Will not occur
Conditions to Avoid	Not available.
Incompatible Materials	Strong-oxidizing agents
Hazardous Decomposition Products	Nitrous vitriol gases, Hydrogen bromide

Section 11: Toxicological Information
RTECS YM4550000

Acute Toxicity

Acute oral toxicity (LD50): 1270 mg/kg [Rat]. The substance is toxic to the nervous system. Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (permeator), of inhalation. Hazardous in case of skin contact (irritant). Primary irritant effect: On the skin: No irritant effect. On the eye: No irritant effect. Sensitization: No sensitizing effect known.

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Not available

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Not available

Carcinogenicity

Not available

Reproductive Toxicity

Not available

Routes of Entry

Dermal contact. Eye contact. Inhalation. Ingestion.

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Symptoms Related to Exposure

Not available

Potential Health Effects

Not available

Target Organ(s)

Not available

Section 12: Ecological Information**Ecotoxicity**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are more toxic. Water danger class 3 (self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into soil.

Persistence and Degradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations**Waste Disposal**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations. Recommended cleaning agent: Water, if necessary with cleaning agent.

Disposal of Container

Not available

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

UN 1544 Class: 6.1 Packaging group: III Hazard Label: Toxic substance Alkaloid salts, solid, poisonous, n.o.s.

Section 15: Regulatory Information**Regulations**

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE; Pennsylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: NONE

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Other

WHMIS CLASS D-2B: Material causing other toxic (Canada) effects (TOXIC).;DSCL (EEC) R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes.;Gloves.;Lab coat.;Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.;Splash goggles.

Section 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used as guide. Alkaloids shall not be held liable for any damage resulting from handling or from contact with the above product.