

**Safety Data Sheet**

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

Section 1: Identification

Product Name Atropine Sulfate USP Monohydrate
Commercial Name (+-)-Tropyltropate sulphate Monohydrate
Product Use Not available
Restrictions On Use Not available

Product Code 50-1001

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Acute toxicity oral: cat. 1 Acute toxicity inhalation: cat. 2
CFR 1910.1200

Signal Word DANGER

Hazard Statement(s) Fatal if swallowed or if inhaled.

Pictogram(s) or Symbol(s)

**Precautionary Statement(s):**

Prevention P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands and other exposed areas thoroughly after handling. P271 Use only outdoors or in well-ventilated area. P284 Wear respiratory protection.

Response P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in position comfortable for breathing.

Storage P403+P233 Store in a well ventilated place. Keep in container tightly closed P404 Store locked up.

Disposal P501 Dispose of contents/container to an approved incineration plant.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Atropine sulfate monohydrate
% By Weight 100
CAS# 5908-99-6
Molecular Weight 694.84 g/mole
Chemical Formula C₃₄H₄₈N₂O₁₀-S X H₂O
Synonym(s) alpha-(hydroxymethyl)-8-methyl-8-azabicyclo(3.2.1)oct-3-yl-ester

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Atropine sulfate monohydrate	5908-99-6	100	Not available.	ORAL (LD50):Acute: 622mg/kg [Rat].

Section 4: First-Aid Measures

Inhalation	Move to fresh air in case of accidental inhalation. Assure fresh air breathing. Call a physician immediately.
Skin Contact	Rinse skin with water/shower. Wash with plenty of soap and water.
Eye Contact	Rinse with water while holding the eyes wide open. Contact lenses should be removed. Obtain medical attention if pain, blinking or redness persists.
Ingestion	Rinse mouth out with water. The following symptoms may occur: (see section(s) : 3. If you feel unwell, seek medical advice.
Symptoms/Effects	
Acute	Dilation of pupil, convulsions, fever, central nervous system depression. Refer to H-statements and P-statements in section 2.
Delayed	

Immediate Medical Attention

In all cases of doubt, or when symptoms persist, seek medical attention. Refer to H-statements and P-statements in section 2.

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

Use extinguishing media appropriate for the surrounding fire. Water spray, carbone dioxide, dry powder, foam.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Not available

Firefighters Special Equipment and Precautions

Small amounts: Use normal individual fire protective equipment. Large amounts: Not applicable. Firefighting instructions: Dilute with water.

Section 6: Accidental Release Measures

General measures : Avoid raising dust. Wear suitable protective clothing, gloves and eye or face protection. Avoid any direct contact with the product. Large amounts: Not applicable. For non-emergency personnel Protective equipment : See Headings 7 and 8. Emergency procedures : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Wear suitable protective clothing and gloves. For emergency responders No additional information available
Environmental precautions No additional information available 1 Methods and material for containment and cleaning up Methods for cleaning up : Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Ensure waste is collected and contained. Clean thoroughly. Clean with water. Collect all waste in suitable and labelled containers and dispose according to local legislation.

Section 7: Handling and Storage

Precautions for safe handling: Handle and open container with care. See Heading 8. Do not handle until all safety precautions have been read and understood. Avoid any direct contact with the product. Conditions for safe storage, including any incompatibilities: To guarantee the quality and properties of the product, keep : dry, Keep in a cool, well ventilated place away from heat. Store in original container. Store according to local legislation. Incompatible products : Strong oxidizing agents

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Material should be handled in a laboratory hood whenever possible
Personal Protection	Personal protective equipment : Gloves. Safety glasses. Protective clothing. Dust production: dust mask with filter type P3 Hand protection : gloves. Chemical resistant PVC gloves Eye protection : Wear eye protection. DIN EN 166. Skin and body protection : Lab coat. Wear suitable protective clothing. DIN EN 13034. Respiratory protection : Quarter mask @IN EN 140). Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust/vapour under TLV

Section 9: Physical and Chemical Properties

Appearance	Colorless crystals or white crystalline powder Solid.		
Odor	Odorless		
Odor Threshold	Not available.		
Melting Point	365 - 383 F (185 - 195C)	pH	A 2% solution in water has a pH c
Freezing Point	Not available.	Vapor Pressure	Not applicable.
Boiling Point/Range	Not available.	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)	Very soluble in water.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Stable under normal conditions
Chemical Stability	Not available.
Hazardous Polymerization	Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: Not applicable
Conditions to Avoid	Not available.
Incompatible Materials	Not available.
Hazardous Decomposition Products	When heated to decomposition, emits dangerous fumes. Large amounts: Not applicable

Section 11: Toxicological Information

RTECS	Not available
Acute Toxicity	Fatal if swallowed. Fatal if inhaled. LD50 oral rat 600 mg/kg ATE (oral) 0,500 mg/kg bodyweight ATE (gases) 100,000 ppm V/4h ATE (vapours) 0,500 mg/l/4h ATE (dust, mist) 0,050 mg/l/4h
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	Eye contact. Inhalation. Ingestion.

Symptoms Related to Exposure

Not available

Potential Health Effects

Avoid any direct contact with the product. Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. See first aid section of this material safety data sheet. Large amounts: Not applicable

Target Organ(s) Not available**Section 12: Ecological Information****Ecotoxicity**

Toxicity to fish: LC50 = 460mg/l Exposition time: 96h Log Pow: 1.83 at 20°C

Persistence and Degradability

Not available

Bioaccumulative Potential

Log Pow 1,83 at 20°C

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations**Waste Disposal**

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations. Waste disposal recommendations : Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Disposal of Container

Not available.

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

ADR/RID Code: UN 1544, Class: 6.1 PG II IMDG-Code: UN 1544, Class: 6.1 PG II IATA-DRG-Code: UN 1544, Class: 6.1 PG II

Proper shipping name: Alkaloid Salts, Solid N.O.S.

Section 15: Regulatory Information**Regulations**

Current EC-Regulation and the national regulations (Germany)

Other

Reclassification related to current EC-Regulation.

Section 16: Other Information

Not available.