



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
o Y⊕. ⊕Y o	Toxic compound, do not ingest or inhale. Avoid all contact with this material. Light sensitive material.	

Section I. CI	hemical Product and Compa	nny Identification	
Chemical Name	Atropine		
Catalog Number	A0754	Supplier	TCI America 9211 N. Harborgate St.
Synonym	DL-Hyoscyamine		Portland OR 1-800-423-8616
Chemical Formula	C ₁₇ H ₂₃ NO ₃		
CAS Number	51-55-8	In case of Emergency	Chemtrec® (800) 424-9300 (U.S.)
		Call	(703) 527-3887 (International)

Section II. Composition and Information on Ingredients				
Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Atropine	51-55-8	Min. 99.0 (T)	Not available.	Rat LD_{50} (intraperitoneal) 280mg/kg Rat LD_{50} (oral) 500mg/kg Rabbit LD_{50} (oral) 600mg/kg
Section III. Hazards Identification				

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Section III.	Trazards identification
Acute Health Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Reproductive: woman (intravenous) 20ug/kg. Duration: female 26-39 weeks of pregnancy. Specific developmental abnormalities- Cardiovascular. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with runing water for at least 15 minutes. keeping eyelids open. COLD water may be used. DO NOT use an eye oitment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper eyelids. Seek medical attention. Treat symptomatically and supportively.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thorough 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. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.
Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. 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. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

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Section V.	Fire and Explosion Data			
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.	
Flash Points	Not available.	Flammable Limits	Not available.	
Combustion Products	These products are toxic carbon oxides (C	These products are toxic carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂).		
Fire Hazards	No specific information is available regardi	No specific information is available regarding the flammability of this compound in the presence of various materials.		
Continued or	n Next Page Em	nergency phone nu	ımber (800) 424-9300	

A0754 **Atropine** Page 2 **Explosion Hazards** Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. No additional information is available regarding the risks of explosion. Fire Fighting Media SMALL FIRE: Use DRY chemicals, CO2, water spray or foam.

LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Section VI. Accidental Release Measures

Spill Cleanup Instructions

and Instructions

Toxic material. Light-sensitive material.

In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. shovel to put the material into a convenient waste disposal container. Consult federal, state, and/or local authorities for

assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information

Melting Point

TOXIC. LIGHT SENSITIVE. Handle with caution and minimize exposure. Keep away from heat and sources of ignition. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT ingest. DO NOT breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents.

Section VIII. Exposure Controls/Personal Protection

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

Vapor Density

Not available

airborne contaminants below the exposure limit

Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult Personal Protection

a specialist BEFORE handling this product.



Exposure Limits Not available.

Section IX. Physical and Chemical Properties

Physical state @ 20°C Solid Solubility Soluble in water, ether, benzene, and chloroform. Not available. 1g in 455mL water, 2mL alcohol, 25mL Specific Gravity

ether, 27mL glycerol, 1mL chloroform. Soluble in benzene, and in dil acids.

Molecular Weight 289.37 Partition Coefficient Not available.

Boiling Point Not available. Vapor Pressure Not available. 114 to 116°C

Refractive Index Not available. Volatility Not available

Critical Temperature Odor Not available. Not available.

Viscosity Not available. Taste Not available.

Section X. Stability and Reactivity Data

> This material is stable if stored under proper conditions. (See Section VII for instructions) Stability

Conditions of Instability Protect from light. Avoid excessive heat and light.

Incompatibilities Reactive with oxidizing agents, alkalis, iodine, mercury salts, and tannic acids.

Section XI. Toxicological Information

RTECS Number CK0700000

Routes of Exposure Eye contact. Ingestion. Inhalation.

Rat LD₅₀ (intraperitoneal) 280mg/kg Toxicity Data

Rat LD₅₀ (oral) 500mg/kg Rabbit LD₅₀ (oral) 600mg/kg

CARCINOGENIC EFFECTS: Not available. Chronic Toxic Effects

MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITYReproductive: woman (intravenous) 20ug/kg. Duration: female 26-39 weeks of pregnancy.

Specific developmental abnormalities- Cardiovascular.

Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs

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Emergency phone number (800) 424-9300

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Acute Toxic Effects

Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Section XII. Ecological Information

Ecotoxicity Not available.

Environmental Fate Not available.

Section XIII. Disposal Considerations

Waste Disposal

Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of the substance.

Section XIV. Transport Information

DOT Classification DOT CLASS 6.1: Toxic material.

PIN Number UN1544

Proper Shipping Name Alkaloids, solid, n.o.s.

Packing Group (PG)

DOT Pictograms

POISON

Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list.

(EPA)

WHMIS Classification

(Canada)

Not available.

EINECS Number (EEC) 200-104-8

EEC Risk Statements R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.

Japanese Regulatory Data Not available.

Section XVI. Other Information

Version 1.0

Validated on 10/13/1999.

Printed 1/11/2005.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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