

SAFETY DATA SHEET

Product Name: Atropine Sulfate Injection

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Name And Hospira, Inc.

Address 275 North Field Drive

Lake Forest, Illinois 60045

USA

Emergency Telephone CHEMTREC: North America: 800-424-9300;

International 1-703-527-3887; Australia - 61-290372994; UK - 44-870-8200418

Hospira, Inc., Non-Emergency 224 212-2000

Product Name Atropine Sulfate Injection

Synonyms $1\alpha H$, $5\alpha H$ -Tropan-3- α -ol (\pm)-tropate (ester), sulfate (2:1) (salt) monohydrate.

2. HAZARD(S) IDENTIFICATION

Emergency Overview Atropine Sulfate Injection is a solution containing atropine sulfate, an anticholinergic

drug that blocks the effects of acetylcholine in the body resulting is effects on many organ systems including the eyes, gastrointestinal tract, heart, lung and central nervous system. Clinically, atropine sulfate is used to treat a variety of GI disorders, to reduce salivation and secretions during surgery, and to dilate pupils. In the workplace, this material should be considered potentially irritating to the eyes and respiratory tract. Based on clinical use, possible target organs include the eyes, skin, gastrointestinal system, respiratory system, central nervous system, and cardiovascular system.

U.S. OSHA GHS Classification

Physical Hazards Hazard Class Hazard Category

Not Classified Not Classified

Health Hazards Hazard Class Hazard Category

Not Classified Not Classified

Label Element(s)

Pictogram NA

Signal Word NA

Hazard Statement(s) NA

Precautionary Statement(s)

Prevention Do not breathe vapor or spray.

Wash hands thoroughly after handling.

Response Get medical attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical

attention.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient NameAtropine Sulfate MonohydrateChemical Formula $(C_{17}H_{23}NO_3)2 \cdot H_2SO_4 \cdot H_2O$

Component	Approximate Percent by Weight	CAS Number	RTECS Number	
Atropine Sulfate Monohydrate	0.01	73791-47-6	CK2455000	

Non-hazardous ingredients include Water for Injection. Hazardous ingredients present at less than 1% include sodium chloride. Hydrochloric acid and/or sodium hydroxide are added to adjust the pH.

4. FIRST AID MEASURES

Eye Contact Remove from source of exposure. Flush with copious amounts of water. If irritation

persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

Skin Contact Remove from source of exposure. Flush with copious amounts of water. If irritation

persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

Inhalation Remove from source of exposure. If signs of toxicity occur, seek medical attention.

Provide symptomatic/supportive care as necessary.

Ingestion Remove from source of exposure. If signs of toxicity occur, seek medical attention.

Provide symptomatic/supportive care as necessary.

5. FIRE FIGHTING MEASURES

Flammability None anticipated for this aqueous product.

Fire & Explosion Hazard None anticipated for this aqueous product.

Extinguishing Media As with any fire, use extinguishing media appropriate for primary cause of fire such as

carbon dioxide, dry chemical extinguishing powder or foam.

Special Fire Fighting

Procedures

No special provisions required beyond normal firefighting equipment such as flame

and chemical resistant clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup and Disposal Isolate area around spill. Put on suitable protective clothing and equipment as

specified by site spill control procedures. Absorb the liquid with suitable material and clean affected area with soap and water. Dispose of spill materials according to the

applicable federal, state, or local regulations.

7. HANDLING AND STORAGE

Handling No special handling required under conditions of normal product use.

Storage No special storage required for hazard control. For product protection, follow storage

recommendations noted on the product case label, the primary container label, or the

product insert.

Special Precautions No special precautions required for hazard control.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

	Exposure Limits			
Component	OSHA-PEL	ACGIH-TLV	AIHA WEEL	Hospira EEL
Atropine Sulfate Monohydrate	8-hr TWA: Not	8-hr TWA: Not	8-hr TWA: Not	8-hr TWA: Not
	Established	Established	Established	Established

Notes: OSHA PEL: US Occupational Safety and Health Administration - Permissible Exposure Limit

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.

AIHA WEEL: Workplace Environmental Exposure Level

EEL: Employee Exposure Limit. TWA: 8-hour Time Weighted Average.

Respiratory Protection Respiratory protection is normally not needed during intended product use. However,

if the generation of aerosols is likely, and engineering controls are not considered adequate to control potential airborne exposures, the use of an approved air-purifying respirator with a HEPA cartridge (N95 or equivalent) is recommended under conditions where airborne aerosol concentrations are not expected to be excessive. For uncontrolled release events, or if exposure levels are not known, provide respirators that offer a high protection factor such as a powered air purifying respirator or supplied air. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions require respirator use. Personnel who wear respirators should be fit tested and

approved for respirator use as required.

Skin Protection If skin contact with the product formulation is likely, the use of latex or nitrile gloves

is recommended.

Eye Protection Eye protection is normally not required during intended product use. However, if eye

contact is likely to occur, the use of chemical safety goggles (as a minimum) is

recommended.

Engineering Controls Engineering controls are normally not needed during the normal use of this product.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance/Physical State Clear liquid

Odor NA
Odor Threshold NA

pH 4.2 (3.0 to 6.5)

Melting point/Freezing Point

Initial Boiling Point/Boiling Point Range

NA
Flash Point

Evaporation Rate

NA
Flammability (solid, gas)

Upper/Lower Flammability or Explosive Limits

Vapor Pressure

NA
Vapor Density (Air = 1)

NA

Vapor Density (Air =1)NARelative DensityNASolubilityNAPartition Coefficient: n-octanol/waterNAAuto-ignition TemperatureNADecomposition TemperatureNA

Viscosity

NA

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10. STABILITY AND REACTIVITY

Reactivity Not determined.

Chemical Stability Stable under standard use and storage conditions.

Hazardous Reactions Not determined

Conditions to Avoid Not determined

Incompatibilities Not determined

Hazardous Decomposition

Products

Not determined. During thermal decomposition, it may be possible to generate irritating vapors and/or toxic fumes of carbon oxides (COx), nitrogen oxides (NOx),

and sulfur oxides (SOx).

Hazardous Polymerization Not anticipated to occur with this product.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Not determined for the product formulation. Information for the ingredients is as follows:

Ingredient(s)	Percent	Test Type	Route of Administration	Value	Units	Species
Atropine Sulfate Monohydrate	100	LD50	Intravenous	56	mg/kg	Mouse
Atropine Sulfate	100	LD50	Intravenous	37,73 31 70 60	mg/k mg/kg mg/kg mg/kg	Rat Mouse Rabbit Dog
Atropine Sulfate	100	LD50	Oral	500 468	mg/kg mg/kg	Rat Mouse

LD 50: Dosage that produces 50% mortality.

Occupational Exposure Potential

Information on the absorption of this product via inhalation or skin contact is not available. Avoid liquid aerosol generation and skin contact.

Signs and Symptoms

None anticipated from normal handling of this product. In clinical use, atropine can cause suppressed salivation, dilated pupils, blurred vision, hot/dry sensation, disorientation, increased heart rate, constipation, nausea, urinary retention and hesitancy, palpitation, dizziness, drowsiness, decreased bronchi secretion,

photophobia, dry mouth, fever, glaucoma, difficulty breathing, flushing, rashes and

vomiting..

Aspiration Hazard None anticipated from normal handling of this product.

Dermal Irritation/ Corrosion None anticipated from normal handling of this product.

Ocular Irritation/ Corrosion None anticipated from normal handling of this product. However, inadvertent contact

of this product with eyes may produce stinging followed by blurred vision and

sensitivity to light.

Dermal or Respiratory

Sensitization

None anticipated from normal handling of this product.

Reproductive EffectsNone anticipated from normal handling of this product. Animal reproduction or

fertility studies have not been conducted with atropine.

Mutagenicity Studies have not been performed to evaluate the mutagenic potential of atropine.

Carcinogenicity Studies have not been performed to evaluate the carcinogenic potential of atropine.

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11. TOXICOLOGICAL INFORMATION: continued

Carcinogen Lists IARC: Not listed NTP: Not listed OSHA: Not listed

Specific Target Organ Toxicity NA

- Single Exposure

Specific Target Organ Toxicity Based on clinical use, possible target organs include the eyes, skin, gastrointestinal

Repeat Exposure system, respiratory system, central nervous system, and cardiovascular system.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Not determined for product.

Persistence/Biodegradability Not determined for product.

Bioaccumulation Not determined for product.

Mobility in Soil Not determined for product.

Notes:

13. DISPOSAL CONSIDERATIONS

Waste Disposal All waste materials must be properly characterized. Further, disposal should be

performed in accordance with the federal, state or local regulatory requirements.

Container Handling and Dispose of container and unused contents in accordance with federal, state and local

Disposal regulations.

14. TRANSPORTATION INFORMATION

ADR/ADG/ DOT STATUS Not regulated

Proper Shipping Name NA
Hazard Class NA
UN Number NA
Packing Group NA
Reportable Quantity NA

ICAO/IATA STATUS Not regulated

Proper Shipping Name NA
Hazard Class NA
UN Number NA
Packing Group NA
Reportable Quantity NA

IMDG STATUS Not regulated

Proper Shipping Name NA
Hazard Class NA
UN Number NA
Packing Group NA
Reportable Quantity NA

Notes: DOT - US Department of Transportation Regulations



15. REGULATORY INFORMATION

US TSCA Status Exempt. However, atropine sulfate is listed on the TSCA inventory.

US CERCLA Status
US SARA 302 Status
US SARA 313 Status
US RCRA Status
US PROP 65 (Calif.)
Not listed
Not listed
Not listed

Notes: TSCA, Toxic Substance Control Act; CERCLA, US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act; SARA, Superfund Amendments and Reauthorization Act; RCRA, US EPA, Resource Conservation and Recovery Act; Prop 65, California Proposition 65

GHS/CLP Classification*

*In the EU, classification under GHS/CLP does not apply to certain substances and mixtures, such as medicinal products as defined in Directive 2001/83/EC, which are in the finished state, intended for the final user.

Hazard Class	Hazard Category	Pictogram	Signal Word	Hazard Statement
NA	NA	NA	NA	NA

Prevention Do not breathe vapor or spray.

Wash hands thoroughly after handling.

Response Get medical attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical

attention.

EU Classification* *Medicinal products are exempt from the requirements of the EU Dangerous

Preparations Directive.

Classification(s) NA
Symbol NA
Indication of Danger NA
Risk Phrases NA

Safety Phrases S23: Do not breathe vapor/spray

S24: Avoid contact with the skin S25: Avoid contact with eyes

S37/39 Wear suitable gloves and eye/face protection.



16. OTHER INFORMATION

Notes:

ACGIH TLV American Conference of Governmental Industrial Hygienists – Threshold Limit Value

CAS Chemical Abstracts Service Number

CERCLA US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act

DOT US Department of Transportation Regulations

EEL Employee Exposure Limit

IATA International Air Transport Association LD₅₀ Dosage producing 50% mortality NA Not applicable/Not available

NE Not established

NIOSH National Institute for Occupational Safety and Health

OSHA PEL US Occupational Safety and Health Administration – Permissible Exposure Limit

Prop 65 California Proposition 65

RCRA US EPA, Resource Conservation and Recovery Act
RTECS Registry of Toxic Effects of Chemical Substances
SARA Superfund Amendments and Reauthorization Act

STEL 15-minute Short Term Exposure Limit

STOT - SE Specific Target Organ Toxicity – Single Exposure STOT - RE Specific Target Organ Toxicity – Repeated Exposure

TSCA Toxic Substance Control Act
TWA 8-hour Time Weighted Average

MSDS Coordinator: Hospira GEHS
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