

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME ATROPINE SULFATE, USP (Monohydrate)

PRODUCT CODE 2267

SUPPLIER

MEDISCA Inc.

Tel.: 1.800.932.1039 | Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063

MEDISCA Pharmaceutique Inc.

Tel.: 1.800.665.6334 | Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8

21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2

MEDISCA Australia PTY LTD

Tel.: 1.300.786.392 | Fax.: 61.2.9700.9047

Unit 7, Heritage Business Park

5-9 Ricketty Street, Mascot, NSW 2020

EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Manufacturing and Compounding

RESTRICTIONS ON USE Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Acute Toxicity - Oral (Category 4)
Chronic Aquatic Toxicity (Category 2)

PICTOGRAM

¥2><

SIGNAL WORD Warning

HAZARD STATEMENT(S)

Harmful if swallowed.

Fatal if inhaled.

May cause allergic skin reaction.

Toxic to aquatic life with long lasting effects.

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL

EFFECTS

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Not Applicable.



PRECAUTIONARY STATEMENT(S) Prevention Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/ vapors/spray. Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation, wear respiratory protection.

Contaminated work clothing must not be allowed out of the workplace. Wear protective

gloves.

Avoid release to the environment.

Response IF SWALLOWED: Immediately call a poison center or medical professional; Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately

call a poison center or medical professional; Treatment is urgent.

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

COLLECT SPILLAGE.

Storage Not applicable

Disposal Dispose of contents and/or container in accordance with local regulations.

HMIS CLASSIFICATION Health Hazard 3 Flammability 0

Reactivity 0 Personal Protection G

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME

Benzeneacetic acid, α-(hydroxymethyl)-, 8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester, endo-(±)-, sulfate (2:1)

(salt), monohydrate

BOTANICAL NAME

Not applicable

SYNONYM Not applicable

CHEMICAL FORMULA (C₁₇H₂₃NO₃)₂·H₂SO₄·H₂O

CHEMICAL FAMILY Tropane derivative; tertiary amine

CAS NUMBER 5908-99-6
ALTERNATE CAS NUMBER Not applicable

MOLECULAR WEIGHT 694.838

COMPOSITION CHEMICAL NAME CAS NUMBER EC NUMBER % BY WEIGHT
ATROPINE SULFATE (Monohydrate) 5908-99-6 200-235-0 100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek

medical aid.

IN CASE OF SKIN CONTACT

Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician

MEDICAL ATTENTION AND SPECIAL

TREATMENT

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Get emergency medical help.



SYMPTOMS CAUSED BY EXPOSURE

Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

FLAMMABLE PROPERTIES

HAZARDOUS COMBUSTION PRODUCTS

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Not applicable

May be combustible at high temperature

Under fire conditions, hazardous fumes will be present.

Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR

CONTAINMENT

CLEANUP PROCEDURE

On land, sweep or shovel into suitable containers. Minimize generation of dust.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean

the affected area. Do not flush into sewerage system or to drains. $\label{eq:control}$

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid

STORAGE CONDITIONS

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Store in original container, tightly sealed, protected from direct sunlight and moisture.

Short term excursions, temperature excursions as experienced during shipping and warehousing, up to 40 °C are acceptable.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION



Chemical Name: ATROPINE SULFATE (Monohydrate) CAS #: 5908-99-6

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

N/L = Not listed; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINESConsult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m3.

PERSONAL PROTECTIVE EQUIPMENT Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a

thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING

Not available

CONTROL BANDING

Not available

NOTES USP: ELV: Industiral use: TWA: 0.004 mg/m³.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Solid

DESCRIPTION Colorless crystals, or white, crystalline powder. Is odorless; effloresces in dry air; is slowly affected by light.

SOLUBILITY Very soluble in water; freely soluble in alcohol and even more so in boiling alcohol; freely soluble in glycerin.

ODOR Odorless

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FLAMMABILITY May be combustible at high temperature

AUTO-IGNITION Not available BOILING POINT Not available DECOMPOSITION TEMPERATURE

BOILING POINT Not available DECOMPOSITION TEMPERATURE

EVAPORATION RATE Not available EXPLOSIVE LIMIT Not available FLASH POINT Not available

log PNot availableLOWER FLAMMABLE/
EXPLOSIVE LIMIT(S)Not availableMELTING/FREEZING
POINT(185 - 195)°C,
(365-383)°F



OXIDIZING PROPERTY **PARTICLE** Not available Not available pΗ 4.5 - 6.2 (2 %) **CHARACTERISTICS** UPPER FLAMMABLE/ RELATIVE DENSITY Not available SPECIFIC GRAVITY Not available Not available (WATER = 1) **EXPLOSIVE LIMIT(S)** VAPOR DENSITY Not available VAPOR PRESSURE Not available VISCOSITY Not available (AIR = 1)

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY Not established

CHEMICAL STABILITY Stable under recommended storage conditions

INCOMPATIBLE MATERIALS Alkalis, tannin, gold/mercury salts, borax, bromides, iodides, and strong oxidizing agents.

HAZARDOUS DECOMPOSITION

PRODUCTS

Will not occur

HAZARDOUS POLYMERIZATION
POSSIBLITY OF HAZARDOUS

REACTION

Not established

CONDITIONS TO AVOID

Moisture, sunlight and extreme temperatures. Light sensitive.

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY ATROPINE SULFATE (Anhydrous):

Oral: Rat: LD50: (mg/kg): 600

Dermal: Rabbit: LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available

SKIN CORROSION/IRRITATION Due to lack of data the classification is not possible.

SERIOUS EYE DAMAGE/EYE

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RESPIRATORY SENSITIZATION

IRRITATION

Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible.

SKIN SENSITIZATION Due to lack of data the classification is not possible.

Suspected skin sensitiser: CAESAR skin sensitisation model in VEGA (Q)SAR platform predicts that the

chemical is Sensitizer (moderate reliability)

GERM CELL MUTAGENICITY Due to lack of data the classification is not possible.

Ames test: Negative

CARCINOGENICITY OSHA ATROPINE SULFATE (Monohydrate) is not listed.

NTP ATROPINE SULFATE (Monohydrate) is not listed.

IARC ATROPINE SULFATE (Monohydrate) is not evaluated.

California This product does not contain any chemicals known to the State of California to cause

Proposition 65 cancer, birth defects, or any other reproductive harm.



ADDITIONAL CARCINOGENICITY INFORMATION

Due to lack of data the classification is not possible.

REPRODUCTIVE TOXICITY

Based on available data, the classification criteria are not met.

Epidemiological studies have not shown an association between therapeutic use of this material during pregnancy and an increased incidence of birth defects.

Reproductivity and development: Mouse: 50 mg/kg: No adverse effects on the fetus.

Reproductivity and development, Chick eggs injected with 0.6 to 1.5 mg of atropine during incubation.: No defects produced.

Suspected toxic for reproduction: The Toolbox profiler DART scheme v.1.0 gives an alert for toxicity to reproduction; Developmental/Reproductive Toxicity library (PG) in VEGA (Q)SAR platform predicts that the chemical is Toxicant (good reliability)

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Due to lack of data the classification is not possible.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

Due to lack of data the classification is not possible.

ASPIRATION HAZARDS

EXPOSURE

Based on available data, the classification criteria are not met.

SIGNS AND SYMPTOMS OF

ROUTES OF EXPOSURE: Inhalation, skin, eyes, ingestion

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Anticholinergics: Dependence. High blood pressure. Hyperthermia. Tachycardia. Respiratory depression. Central nervous system excitation. Dehydration. Coma. Death.

Symptoms related to the physical, chemical, and toxicological characteristics:

Anticholinergics: Dry mouth, throat, nose, skin, or eyes. Flushing. Decreased sweating. Fever. Decreased urination. Fast heartbeat. Headache. Dizziness. Drowsiness. Unsteadiness. Weakness. Restlessness. Confusion. Memory problems. Hallucinations. Insomnia. Seizures. Slurred speech. Blurred vision. Dilated pupils. Decreased sexual interest and ability. Nausea. Indigestion. Constipation. Diarrhea. Difficulty swallowing.

Cross sensitivity: Persons sensitive to one of the belladonna alkaloids or derivatives may be sensitive to this material also.

Medical conditions aggravated by exposure:

Anticholinergics: Heart disease. Tachycardia. Hyperthyroidism. High blood pressure. Myasthenia gravis. Gastrointestinal reflux or obstruction. Ulcerative colitis. Paralytic ileus. Urinary retention or obstruction. Glaucoma. Kidney or liver impairment. Bleeding disorders. Prostate enlargement. Epilepsy. Porphyria.

POTENTIAL HEALTH EFFECTS

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Inhalation Fatal if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation. May cause an allergic

skin reaction.

Eyes May cause eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EC50: 48 Hr: Crustacea (Daphnia Magna): (mg/L): 0.7655 - 2.43*

LC50: 96 Hr: Fish: (mg/L): 1.11*

EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available

PERSISTENCE AND DEGRADABILITY Suspected persistent in the environment: Ready biodegradability model (IRFMN) in VEGA (Q)SAR platform

predicts that the chemical is Possible NON Readily Biodegradable (moderate reliability).

BIOACCUMULATIVE POTENTIAL Not available



MOBILITY IN SOIL Very soluble in water.

OTHER ADVERSE EFFECTS Not available

This product is not intended to be released into the environment

NOTES *Danish QSAR database

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME ALKALOID SALTS, SOLID, N.O.S.

UN NUMBER 1544
CLASS 6.1
PACKING GROUP III

AUSTRALIA

HAZCHEM 2X

EU

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE

IBC CODE

Not listed

ENVIRONMENTAL HAZARDS Not available SPECIAL SHIPPING INFORMATION Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CERCLA 40 CFR Part 302.4		SARA (Title III) 40 CFR Part 372.65	EPA 40 CF Appendix A	EPA 40 CFR Part 355 Appendix A Appendix B		Right-to-know Pennsylvania New Jersey Massachusetts		
ATROPINE SULFATE	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L
(Monohydrate) 5908-99-6								

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
ATROPINE SULFATE (Monohydrate) 5908-99-6	N/L	Listed as Schedule 4*	N/L	Listed*	N/L	N/L

N/L = Not Listed

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EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
ATROPINE SULFATE (Monohydrate) 5908-99-6	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL

AGREEMENT

Not applicable

NOTES *Listed as the base

SECTION 16: OTHER INFORMATION

REFERENCES

ABBREVIATIONS AND ACRONYMS

Available upon request

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL - American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR - Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS - Chemical Abstract Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; EC50 - Effective Concentration, 50%; EPA - Environmental Protection Agency; GHS - Global Harmonized System; HMIS - Hazardous Materials Information System; HSE - Health and Safety Executive; HSIS - Hazardous Substances Information System; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN - Ready Biodegradability Model; ISS - Instituto Superiore Sanità; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA PEL - Occupational Safety & Health Administration Permissible Exposure Limits; QSAR - Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System

LAST REVISION

SUPERSEDES

02/2023

04/2021

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

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For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.