

MATERIAL SAFETY DATA SHEET

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Section I - IDENTITY

Trade Name: DETOMIDINE HYDROCHLORIDE

Common: Detomidine hydrochloride 10 mg/mL; 5 or 20 mL multiple doses

Chemical Names: 1H-imidazole, 4-[(2,3-dimethylphenyl)methyl]-, hydrochloride

Synonyms: Detomidine hydrochloride

Date Prepared: March 20, 2020

Section II - COMPOSITION/INFORMATION ON INGREDIENTS

Component	%	CAS#
Detomidine hydrochloride	1	90038-01-0
Methylparaben	0.01	99-76-3
Sodium chloride	0.59	7647-14-5
Water for Injection	98.4	7732-18-5

Section III - HAZARDS IDENTIFICATION

CERCLA ratings (scale 0-3)

Health=1 Fire=0 Reactivity=0

NFPA ratings (scale 0-4)

Health=1 Fire=0 Reactivity=0

Signal word

CAUTION!

Statements of hazard

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

MAY CAUSE HYPERSENSITIVITY REACTIONS IN SUSCEPTIBLE INDIVIDUALS.

MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS.

Eye

Short term effects

May cause eye irritation. Signs and symptoms might include redness, swelling, blurred vision or pain.

Long term effects

None known; see short-term effects above.

Skin

Short term effects

May cause skin irritation and allergic skin reactions following direct or repeated contact with this material.

Long term effects

None known; see short term-effects above.

Inhalation

Short term effects

May cause mucous membrane and respiratory tract irritation. May cause central nervous system effects (drowsiness and loss of consciousness). May also cause hypersensitivity reactions in susceptible individuals.

Long term effects Ingestion	Not known; see short-term effects above.
Short term effects	Ingestion of this material may cause effects similar to those seen in animal studies including effects on nervous system (drowsiness and loss of consciousness) and respiratory system
Long term effects	Not known; see short-term effects above.

Section IV - FIRST AID MEASURES

Eyes	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin	Wash skin with soap and plenty of water. Remove contaminated clothing and shoes. Wash clothing and thoroughly clean shoes before reuse. If irritation occurs or persists, get medical attention.
Ingestion	If swallowed, get medical attention immediately. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Section V - FIRE FIGHTING MEASURES

General hazard	This material is not expected to support combustion. Toxic or corrosive emissions including oxides of carbon and nitrogen together with hydrogen chloride may be given off in a fire. See Hazardous combustion products, below, and Hazardous decomposition products in Section 10 - STABILITY AND REACTIVITY.
Fire fighting instructions	Wear approved positive pressure, self contained breathing apparatus and full protective turn out gear. Use caution in approaching fire.
Extinguisher to use	Use carbon dioxide, dry chemical, or water spray.
Flash point	No data available
Autoignition	Not known
Minimum explosive concentration for dust/vapor	Not known
Hazardous combustion products	Not known
Flammability limits	Not known

Section VI - ACCIDENTAL RELEASE MEASURES

Occupational spill	Contain the source of the spill or leak. Absorb spills with non-combustible absorbent material and transfer to labeled container for treatment and disposal. Clean spill area thoroughly with detergent and water.
Clean up - large spill	Review Sections 3 and 8 before proceeding with clean up. Contain the source of the spill or leak. Dike or pump spilled material into a labeled recovery container or absorb with non-combustible material. Put

saturated absorbent material into a labeled container. Close container and move it to a secure holding area. Clean spill area thoroughly with detergent and water. Collect wash water with a non-combustible absorbent material and transfer to labeled container for treatment and disposal.

Section VII - HANDLING AND STORAGE

General handling	Keep away from heat. Use with adequate ventilation. Do not get in eyes. Avoid prolonged or repeated contact with skin and clothing. Avoid breathing vapor or mist. When handling, use proper personal protective equipment specified in Section 8. Wash thoroughly after handling.
Storage	Store between 20-25°C (68-77°C) with excursions permitted between 15-30°C (59-86°C), in the absence of light. Discard unused product after 28 days of first broaching the vial.

Section VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Hazardous Ingredient	Detomidine hydrochloride
Exposure limits	Not established
Exposure information	No Occupational Exposure Limit (OEL) established for this mixture or the active ingredient it contains.
Ventilation	General room ventilation is adequate unless the process generates airborne mist or vapor.
Eye protection	None required under normal and foreseeable conditions of use.
Skin protection	None required under normal and foreseeable conditions of use.
Hand protection	Rubber gloves are recommended if there is a potential for contact.
Respiratory protection	Under normal conditions of use, respiratory protection is not expected to be necessary. Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure.

Section IX - PHYSICAL AND CHEMICAL PROPERTIES

Physical form	Liquid
Color	Colorless.
Clarity	Clear
Odor	Odorless.
Molecular weight	Not applicable
Molecular formula	Not applicable
pH	Not known
Melting point	Not known
Pour point	Not known
Vapor pressure	Not known
Water solubility	Soluble in water
Solvent solubility	No data available

Section X - STABILITY AND REACTIVITY

Reactivity	Stable.
Conditions to avoid	None for the normal use of this material.
Incompatibilities	None known.
Hazardous decomposition products	No data available. See Section 5 - under Hazardous combustion products.
Hazardous polymerization	Not expected to occur.
Oxidizing properties	No data available.
Explosive properties	None known or expected.

Section XI - TOXICOLOGICAL INFORMATION

Acute toxicity	Type	Route	Species	Dosage
	LD50	Oral	Rat	60 mg/kg
Eye	No data available. See Section 3 - HAZARD IDENTIFICATION, above.			
Skin	No data available. See Section 3 - HAZARD IDENTIFICATION, above.			
Inhalation	No data available. See Section 3 - HAZARD IDENTIFICATION, above.			
Ingestion	Acute oral LD50s for the active ingredient are listed above in the table. While this formulation has not been tested as a whole, it would not be expected to be toxic orally based on the amount of active ingredient in the mixture.			
Mutagenicity	No data available.			
Subchronic effects	No data available.			
Chronic toxicity	See Chronic effects/Carcinogenicity below.			
Chronic effects/Carcinogenicity	No long-term toxicity studies have been conducted to evaluate the chronic toxicity or carcinogenic potential of this material.			
OSHA carcinogen	Not classified			
NTP carcinogen	Not classified			
IARC carcinogen	Not classified			
Reproductive effects	No data available.			
Teratogenicity	No data available.			
At increased risk from exposure	None known			

Section XII - ECOLOGICAL INFORMATION

Environmental overview	The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.
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Section XIII - DISPOSAL INFORMATION

Disposal procedure	Incineration is the recommended means of disposal for this material. This material may also be disposed in landfills. Federal, State, Local environmental regulations and Site conditions may affect proper disposal options.
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Section XIV - TRANSPORTATION INFORMATION

Proper shipping name Detomidine hydrochloride sterile injectable solution
General shipping instruction Non-regulated

Section XV - REGULATORY INFORMATION

TSCA status No
SARA section 302 No
SARA section 313 No
California proposition 65 No
Canadian WHMIS This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Section XVI - OTHER DATA

1. Use of this product should be through or under the direction of a veterinarian.
2. This MSDS does not address therapeutic use of this material.

The information provided is believed to be complete and accurate. It is the user's responsibility to use the information according to their application. Modern Veterinary Therapeutics, LLC assumes no additional liability or responsibility resulting from the use of or reliance on this information.