

Material Safety Data Sheet

Material Name: Sodium Thiosulfate Injection

Section 1 Chemical Product and Company Information

Manufacturer Information

Hope Pharmaceuticals
16416 N. 92nd Street #125
Scottsdale, AZ 85260

Phone: (480) 607-1970
Fax: (480) 607-1971

Section 2 Hazards Information

Emergency Overview

May be harmful if swallowed or inhaled. May cause irritation to skin, eyes, and respiratory tract.

Potential Health Effects: Inhalation

Not anticipated under normal product use. May cause irritation to the respiratory tract.

Potential Health Effects: Eyes

Not anticipated under normal product use. May cause irritation.

Potential Health Effects: Ingestion

Not anticipated under normal product use. May cause nausea, vomiting, and/or diarrhea with ingestion.

Potential Health Effects: Skin

Not anticipated under normal product use. May cause irritation.

HMIS Ratings of Sodium Thiosulfate Pentahydrate:

Health: 2 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe;

* = Chronic Hazard

Section 3 Composition/Information on Ingredients

CAS #	Component	Content Per mL
7732-18-5	Water	< 1.0 mL
10102-17-7	Sodium Thiosulfate Pentahydrate	250 mg
7747-40-7	Potassium Chloride	4.4 mg
10043-35-3	Boric Acid	2.8 mg
1310-73-2	Sodium Hydroxide	pH Adjustment

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Section 4 First Aid Measures

First Aid: Inhalation

Remove person to fresh air. Remove contaminated clothing. Seek medical attention.

First Aid: Eyes

Flush with water. Seek medical attention.

First Aid: Ingestion

Flush mouth out with water. Seek medical attention.

First Aid: Skin

Remove contaminated clothing. Flush area with water. Seek medical attention.

Section 5 Fire Fighting Measures

General Fire Hazards

See Section 9 for Chemical Properties.

Flash Point

N/A

Extinguisher Media

Water spray, carbon dioxide, dry chemical, or foam as appropriate for surrounding fire and materials.

Flammable Limits

(LEL) N/A

(UEL) N/A

Unusual Fire and Explosion Hazards

Emits toxic fumes

Hazardous Decomposition Products

Sodium thiosulfate emits toxic oxides of sulfur and hydrogen sulfide when heated to decomposition.

Special Fire Fighting Procedures

Firefighters should use self-contained breathing apparatus and protective clothing.

Section 6 Accidental Release Measures

Containment Procedures

Contain the discharged material.

Clean-Up Procedures

Wear recommended personal protective equipment. Vacuum spillage with a vacuum cleaner having a high efficiency particulate (HEPA) filter, or absorb

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liquid with paper towels. Wipe working surfaces to dryness, then wash with soap and water.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Follow all local, state, federal, and provincial regulations for disposal.

Section 7 Handling and Storage

Handling Procedures

No special handling procedures are necessary. Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes, skin, and clothing. As a general rule, when handling pharmaceutical products, avoid all contact and inhalation of dust, fumes, mists, and/or vapors associated with the product. Do not mix with other drugs.

Storage Procedures

No special storage procedures are needed. Keep container closed. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not mix with other drugs.

Section 8 Exposure Controls/Personal Protection

Engineering Controls

Local exhaust ventilation is recommended.

Personal Protective Equipment

Respiratory: N/A, however, NIOAH-approved respirator should be available.

Eyes/Face: Wear chemical safety goggles; face shield (if splashing is possible).

Skin: Use impervious gloves and body covering to prevent skin contact.

General: Eye wash fountain and washing facilities are recommended. Wash thoroughly after handling and before eating or drinking.

Exposure Limits

No OSHA PEL listed for sodium thiosulfate pentahydrate.

No ACGIH or NIOSH exposure limits listed for sodium thiosulfate pentahydrate.

Section 9 Physical and Chemical Properties

Appearance:	Clear, colorless solution	Odor:	None
Physical State:	Aqueous solution	pH:	6.0 - 9.5
Vapor Pressure:	N/A	Vapor Density:	N/A
Boiling Point:	> 100° C	Melting Point:	N/A
Solubility (H ₂ O):	Miscible		

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Section 10 Chemical Stability and Reactivity Information

Chemical Stability

Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid

Reacts violently with sodium nitrate, potassium nitrate, and sodium nitrite. Decomposes when exposed to acids. Do not mix with other drugs.

Incompatibility

Reactions can occur with acids, nitrates, and nitrites.

Hazardous Decomposition

May emit toxic fumes during decomposition.

Hazardous Polymerization

Does not occur.

Section 11 Toxicology Information

Component Analysis LD₅₀

Water:	Oral, Rat	> 90 mL/kg
Sodium thiosulfate:	IV, Rat	2.5 g/kg
Potassium chloride:	Oral, Rat	2.6 g/kg
Boric acid:	Oral, Rat	2.66 g/kg
Sodium hydroxide:	No information available.	

Carcinogenicity

Sodium thiosulfate pentahydrate is not listed as a carcinogen by the ACGIH, CA Prop 65, IARC, OSHA, or NTP.

Section 12 Ecological Information

General Product Information

No information available for the product.

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Section 13 Disposal Considerations

Disposal Instructions

Though sodium thiosulfate pentahydrate is not EPA regulated, waste should be disposed of in accordance with federal, state, and local regulations. Do not mix with other substances.

Section 14 Transportation Information

US DOT Information

Shipping Name: Sodium thiosulfate pentahydrate is not regulated.

Section 15 Regulatory Information

US Federal Regulations

Sodium thiosulfate pentahydrate is not identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

State Regulations

Sodium thiosulfate pentahydrate is not present on lists of hazardous substances maintained by CA, FL, MA, MN, NJ, or PA.

Section 16 Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws. In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.