Material Safety Data Sheet

Sodium Thiosulfate LR Grade POWDER (RXSOL-60-6156-001)

1. Product and Company Identifaction

Product Name	Sodium Thiosulfate Pentahydrate
Part Number	RXSOL-19-2031-050

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Chennai, Kandla, Kolkata, Visakhapatnam, Fujairah

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Website	www.rxmarine.com

Synonym: Ametox, Antichlor; Sodium Hyposulfite, Pentahydrate
Chemical Name: Thiosulfuric Acid, disodium salt, Pentahydrate
Chemical Formula: Na2S2O3.5H20

2. Composition / informationon ingredients

Component	CAS-No	Weight %
Sodium Thiosulfate Pentahydrate	10102-17-7	100 %

3. Hazards Identification

Signal Word	:	Irritant
Potential Acute Health Effects:	:	Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant).
Potential Chronic Health Effects:	:	Slightly hazardous in case of skin contact (irritant, sensitizer). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

4. First Aid Measures

Eye Contact :	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
Skin Contact:	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
Serious Skin Contact:	Not available

Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation:	Not available.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband..
Serious Ingestion	Not available.

5. Fire-fighting Measures

Flammability of the Product: Non-flammable.
Auto-Ignition Temperature: Not applicable.
Flash Points: Not applicable.
Flammable Limits: Not applicable.
Products of Combustion: Not available.
Fire Hazards in Presence of Various Substances: Not applicable.
Explosion Hazards in Presence of Various Substances:
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.
Fire Fighting Media and Instructions: Not applicable.
Special Remarks on Fire Hazards: When heated to decomposition it emits toxic fumes of sulfur oxides, hydrogen sulfide, and sodium oxide.
Special Remarks on Explosion Hazards: An explosion may occur if triturated with nitrates, chlorates, or permanganates.

6. Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system

7. Handling and Storage

Precautions:

Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage: Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls and 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 airborne contaminants below the exposure limit.

Personal Protection:
Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.





Gloves Suit

9. Physical and chemical properties

Physical State	:	Solid
Colour & Appearance	:	White Powder/Granular
Odour	:	Odourless
Taste	:	Saline
Molecular Weight	:	248.19 g/mole
PH	:	5% solution: 6.0-8.4
Boiling Point/Range	:	>100°C (212°F)
Melting / Freezing Point	:	48°C (118.4°F)
Critical Temperature	:	Not available.
Specific Gravity	:	1.7 - 1.75(Water = 1).
Vapor Pressure	:	Not Applicable
Vapor Density		Not available.
Volatility Density	:	Not Available
Odor Threshold	:	Not Available
Water/Oil Dist. Coeff	:	Not Available
Partition coefficient n octanol/water	:	Not available.
Ionicity (in Water)	:	Not available
Dispersion Properties	:	See solubility in water
Solubility	:	Soluble in cold water, hot water. Solubility in water: 79 g/100 ml @ 4 deg. C (39 deg. F) 680 g/liter @ 20 deg. C

10. Stability and reactivity

Stability	:	The product is stable.
Instability Temperature	:	Not available.
Conditions of Instability	:	Incompatible materials,Moisture
Incompatibility with various substances	:	Reactive with oxidizing agents, acids, alkalis.
Corrosivity		Non-corrosive in presence of glass.
Special Remarks on Reactivity		It is a strong reducing and can react with oxidizers. Reacts with acids to release sulfur dioxide. Sodium Thiosulfate pentahydrate dissolves in its own water of hydation; it effloresces in warm dry air. Sodium Thiosulfate pentahydrate loses water at 100 deg. C. It is incompatible with iodine, acids, lead, mercury, and silver salts (e.g. silver nitrate), halogens. Hygroscopic; keep container tightly closed. Protect from moisture

Special Remarks on Corrosivity		Not Available
Polymerization		Will not occur.

11. Toxicological information

Routes of Entry		Inhalation. Ingestion.
Toxicity to Animals		LD50: Not available. LC50: Not available
Chronic Effects on Humans		Not available
Other Toxic Effects on Humans		Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).
Special Remarks on Toxicity to Animals		Not available.
Special Remarks on Chronic Effects on Humans		Not available
Special Remarks on other Toxic Effects on Humans		Acute Potenial Health Effects: Skin: It may cause mild skin irritation. Eyes: Can cause mechanical eye irritation. Inhalation: May cause upper respiratory tract and mucous membrane irritation. Ingestion: Sodium Thiosulfate is an agent with a low order of toxicity. Ingestion of large doses may cause gastrointestinal irritation disturbances with nausea, vomiting, addominal cramping, diarrhea, metabolic acidosis, and hypernatremia. May also affect respiration (cyanosis, respiratory stimulation), cardiovascular(hypotension), behavior (ataxia, convulsions) Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may allergic dermatitis, and irritation. The toxicological preperties of this substance have not been fully investigated

12. Ecological information

Ecotoxicity:	Not available.
BOD5 and COD:	Not available.
Products of Biodegradation :	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation:	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation:	Not available.

13. Disposal considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations

14. Transport information

DOT Classification: Not a DOT controlled material (United States).
Identification: Not applicable.
Special Provisions for Transport: Not applicable.

15. Regulatory information

Federal and State Regulations: No products were found.
Other Regulations: Not available.
Other Classifications:
WHMIS (Canada): Not controlled under WHMIS (Canada).
DSCL (EEC):
This product is not classified according to the EU regulations. S24/25- Avoid contact with skin and eyes. S28- After contact with skin, wash immediately with plenty of water. S37- Wear suitable gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
HMIS (U.S.A.):
Health Hazard: 2
Fire Hazard: 0
Reactivity: 0
Personal Protection: E

National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 0
Reactivity: 0
Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

16. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.