

1. Product and Company Identification

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Product Name RXSOL-19-2031-050
Product Type Sodium Thiosulfate Solution

Company Details:

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

Phone +91 22 27815540 / 41 / 42
Fax +91 22 2781 1318:AOH :0091 9821214367
Email mail@rxmarine.com

2. Composition / Information on ingredients

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Chemical Name	CAS #	Percent	EINECS/ELINCS
Sodium Thiosulfate, pentahydrate	10102-17-7	45-50	Unlisted
Sodium Carbonate	497-19-8	2	Unlisted

3. Hazards Identification

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Appearance: colorless liquid. Caution! May cause respiratory tract irritation. May cause skin irritation. May cause eye irritation. This is expected to be a low hazard for usual industrial handling.
Target Organs: None. Potential Health Effects
Eye: May cause mild eye irritation.
Skin: May cause skin irritation. Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Inhalation: Low hazard for usual industrial handling. May cause respiratory tract irritation. Chronic: No information found.

4. First Aid Measures

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Eyes	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Induce vomiting by giving one teaspoon of Syrup of Ipecac.
Inhalation	Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen by nasal cannula. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical resuscitator, a bag and a mask.
Notes to Physician	Effects may be delayed. Ethanol may inhibit methanol metabolism.

5. Fire-fighting Measures

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General Information	<p>General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.</p> <p>Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental pollution. Collect water used to fight fire. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Flammable Liquid. Can release vapors that form explosive mixtures. Vapors from fire may be heavier than air and a fire may be spread by the use of water. Vapors may be heavier than air. They can spread along the ground and enter low-lying areas.</p>
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Extinguishing Media	<p>in low or confined areas. May be ignited by heat, sparks, and flame.</p> <p>Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.</p> <p>Flash Point: Not applicable.</p> <p>Autoignition Temperature: Not applicable.</p> <p>Explosion Limits, Lower:Not available. Upper: Not available.</p> <p>NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0</p>
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6. Accidental Release Measures

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General Information	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks	<p>Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.</p> <p>Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible saw dust. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.</p>

7. Handling and Storage

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Handling	<p>Avoid prolonged or repeated contact with skin. Avoid ingestion and inhalation. Use with adequate ventilation.</p> <p>Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers material. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Empty containers retain (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, direct sunlight inhale. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty c sparks or open flames.</p>
Storage	<p>Storage: Store in a cool, dry place. Store in a tightly closed container. Do not store in aluminum or lead containers. heat as the potential for release of sulfur dioxide fumes exists. Liquid sodium thiosulfate has very low toxicity precautions should be practiced. Rubber gloves, safety goggles and protective clothing is recommended.</p>

8. Exposure controls and personal protection

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Engineering Controls	Use adequate ventilation to keep airborne concentrations low. Expos
Exposure Limits	<p>Chemical Name ACGIH NIOSH OSHA - Final PELs</p> <p>Water none listed none listed none listed</p> <p>Sodium thiosulfate, pentahydrate none listed none listed none listed</p>
OSHA Vacated PELs	<p>Water ::: No OSHA Vacated PELs are listed for this chemical.</p> <p>Sodium thiosulfate, pentahydrate ::: No OSHA Vacated PELs are listed for this chemical.</p>
Personal Protective Equipment	<p>Eyes Wear chemical goggles. Wear appropriate protective eyeglasses or chemical safety goggles. Follow OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.</p> <p>Skin Wear appropriate protective gloves to prevent skin exposure.</p> <p>Clothing Wear appropriate protective clothing to prevent skin exposure.</p> <p>Respirators Follow the 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 irritation or other symptoms are experienced.</p>

9. Physical and chemical properties

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Physical State	Liquid
Appearance	Clear, colorless
Odor	None reported - weak odor
pH	Not available.
Vapor Pressure	14 mm Hg
Vapor Density	Not available
Evaporation Rate	>1 (ether=1)
Viscosity	Not available
Boiling Point	212 deg F
Freezing/Melting Point	32 deg F

Decomposition Temperature	Not available.
Solubility	Soluble
Specific Gravity/Density	>1
Molecular Formula	Mixture
Molecular Weight	Not available.

10. Stability and reactivity

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Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	High temperatures, incompatible materials, ignition sources, oxidizers.
Incompatibilities with Other Materials	Sodium thiosulfate violently reacts with sodium nitrite. It is also incompatible with strong oxidizers, acids.

Hazardous Decomposition Products Hydrogen sulfide, sodium oxide , Hazardous Polymerization: Has not been reported.

11. Toxicological information

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RTECS#:

RTECS#: CAS# 7732-18-5: ZC0110000 CAS# 10102-17-7: WE6660000 LD50/LC50: CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg; . CAS# 10102-17-7:

Carcinogenicity: CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 10102-17-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Mutagenicity: No data available.

Neurotoxicity: No data available. Other Studies:

12. Ecological information

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Physical: No information available. Other: None.

13. Disposal considerations

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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determine 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series None listed.

RCRA U-Series None listed.

14. Transport information

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	US DOT	IATA	RID/ADR	IMO	CanadaTDG
Shipping Name:	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material	No information available

15. Regulatory information

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US FEDERAL

TSCA	CAS# 7732-18-5 is listed on the TSCA inventory. CAS# 10102-17-7 is not on the TSCA Inventory because it is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)). Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules None of the chemicals are listed under a Chemical Test Rule. Section 12b None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA. CERCLA Hazardous Substances and corresponding Response Action None of the chemicals in this material have an RQ.
SARA	None of the chemicals in this product have a TPQ. Section 313 No chemicals are reportable under Section 313. CWA Air Pollutants This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters. Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
Clean Air Act	CAS# 67-56-1 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters. Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA	None of the chemicals in this product are considered highly hazardous by OSHA.
STATE	CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ. CAS# 10102-17-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
European/International Regulations	European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: Not available. Phrases: Safety Phrases: S 24/25 Avoid contact with skin and eyes. WGK (Water Danger/Protection) CAS# 7732-18-5 is not available. CAS# 10102-17-7: 0 Canada - DSL/NDSL CAS# 7732-18-5 is listed on Canada's DSL List. CAS# 10102-17-7 is not listed on Canada's DSL List. Canada - WHMIS This product has a WHMIS classification of Not controlled.. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. Canadian Ingredient Disclosure List

16. Other information

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MSDS Creation Date: 7/21/2008 Revision #4 Date: 3/3/2009 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 Fisher 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 Fisher has been advised of the possibility of such damages.

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