# Material Safety Data Sheet

**Sodium Thiosulfate 0.1 Normal Solution** (RXSOL-60-6254-500)

## 1. Product and Company Identifaction

| | |
|---|---|
| Product Name | RXSOL-60-6254-500 |
| Product Type | Sodium Thiosulfate 0.1 Normal Solution |

**Company Details:**

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

Stock Point : Mumbai, Muscat, Fujairah, Gandhidham, Kolkata, Chennai, Visakhapatnam, Canada

| | |
|---|---|
| Phone | +91 22 65113333 / 5555 / 9999 / 27611360 |
| Fax | +91 22 2781 1318:AOH :0091 9821214367 |
| Email | mail@rxmarine.com |


## 2. Composition / informationon ingredients

| Chemical Name | CAS # | Percent | EINECS/ELINCS |
|---|---|---|---|
| Water | 7732-18-5 | 76-99.4 | 231-791-2 |
| Sodium thiosulfate, pentahydrate | 10102-17-7 | 0.6-22.9 | unlisted |

## 3. Hazards Identification

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. |
| 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. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. |
| Notes to Physician | Effects may be delayed. Ethanol may inhibit methanol metabolism. |

## 5. Fire-fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**General Information**

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 damage. Dike and 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 at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. May be ignited by heat, sparks, and flame.

**Extinguishing Media**

Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.
Flash Point: Not applicable.
Autoignition Temperature: Not applicable.
Explosion Limits, Lower:Not available. Upper: Not available.
NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

## 6. Accidental Release Measures

**General Information**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks**

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

## 7. Handling and Storage

**Handling**

Avoid prolonged or repeated contact with skin. Avoid ingestion and inhalation. Use with adequate ventilation.

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, direct sunlight. Do not ingest or inhale. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage**

Storage: Store in a cool, dry place. Store in a tightly closed container. Do not store in aluminum or lead containers.

## 8. Exposure controls and personal protection

**Engineering Controls**

Use adequate ventilation to keep airborne concentrations low. Expos

**Exposure Limits**

| Chemical Name | ACGIH | NIOSH | OSHA - Final PELs |
|---|---|---|---|
| Water | none listed | none listed | none listed |
| Sodium thiosulfate, pentahydrate | none listed | none listed | none listed |

| | | |
|---|---|---|
| OSHA Vacated PELs | Water ::: No OSHA Vacated PELs are listed for this chemical.<br>Sodium thiosulfate, pentahydrate ::: No OSHA Vacated PELs are listed for this chemical. | |
| Personal Protective Equipment | Eyes | Wear chemical goggles. Wear appropr<br>safety goggles as described by OSHA's<br>CFR 1910.133 or European Standard EN |
| | Skin | Wear appropriate protective gloves to pr |
| | Clothing | Wear appropriate protective clothing to p |
| | Respirators | Follow the OSHA respirator regulations<br>Standard EN 149. Use a NIOSH/MSHA<br>respirator if exposure limits are exceed<br>experienced. |

## 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 | 1.0-1.1 |
| 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

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

Physical: No informa ion available. Other: None.

## 13. Disposal considerations

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

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| RCRA P-Series | None listed. |
| RCRA U-Series | None listed. |

## 14. Transport information

| | 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

**US FEDERAL**

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|---|---|
| TSCA | CAS# 7732-18-5 is listed on the TSCA inventory. CAS# 10102-17-7 is not on the TSCA Inventory because it is a hydrate. 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 in this product are 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 RQs 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. Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors. 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 depletors. This material does not contain any Class 2 Ozone depletors. 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.<br>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. Risk Phrases: Safety Phrases: S 24/25 Avoid contact with skin and eyes. WGK (Water Danger/Protection) CAS# 7732-18-5: No information 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 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

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.