# Material Safety Data Sheet

**Antiscalant RO 4101** (RXSOL-33-6005-100)

## 1. Product and Company Identifaction

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| Product Code | RXSOL-33-6005-100 |
| Product Name | Antiscalant RO 4101 |

Company Details:

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

Stock Point : Fujairah, Muscat, Mumbai, Kolkata, Vizag, Chennai, Gandhidham, Nairobi Kenya, Canada

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

## 2. Composition / informationon ingredients

| Ingredients | CAS no | Concentration |
|---|---|---|
| Nitrilotris(methylene)phosphonate sodium salt | 94021-23-5 | 30-50% |
| Proprietoy Blend of dispersants and antiscalants | ..... | > 50% |

## 3. Hazards Identification

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| Skin contact | May be irritating |
| Eye contact | May be irritating |
| Inhaled | Breathing of the mists, vapors or fumes may irritate the nose, throat and lungs. Symptoms may include sore throat, coughing, labored breathing, sneezing and burning sensation, depending on the concentration and duration of exposure. Overexposure to this material may cause systemic damage including target organ effects listed under Toxicological Information |

## 4. First Aid Measures

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| Inhaled | Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear and give oxygen |
| Skin contact | Breathing of the mists, vapors or fumes may irritate the nose, throat and lungs. Symptoms may include sore throat, coughing, labored breathing, sneezing and burning sensation, depending on the concentration and duration of exposure. Overexposure to this material may cause systemic damage including target organ effects listed under Toxicological Information |
| Eye contact | Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. GET IMMEDIATE MEDICAL ATTENTION |

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| Ingestion | Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION. Never give anything by mouth to an unconscious person. Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis |

## 5. Fire-fighting Measures

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| EXTINGUISHING MEDIA | Material itself will not burn |
| BASIC FIRE FIGHTING PROCEDURES | area and fight fire from a safe distance. Use extinguishing agent suitable for type of surrounding fire. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible. Firefighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment |

## 6. Accidental Release Measures

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| Emergency action | Keep unnecessary people away. Isolate spill area and keep unnecessary people away |
| Environmental precautions | If product is released to the environment, take immediate steps to stop and contain release. Caution should be exercised regarding personnel safety and exposure to the released product. Notify local, provincial and/or federal authorities, if required |
| Spill or leak procdure | Large spills may be neutralized with dilute alkaline solutions of soda ash or lime. Stop leak when safe to do so. Do not touch or walk through spilled material. |

## 7. Handling and Storage

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| Precautions for Safe Handling | This material should be stored and shipped in plastic or plastic lined containers. Do not use with materials or equipment sensitive to acidic solutions |
| Conditions for safe storage, including any incompatibilities | Avoid contact with strong oxidizers, bases, and metals. Store in tightly closed containers in cool, dry area away from heat and incompatibles |

## 8. Exposure controls and personal protection

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| Engineering controls | General or local exhaust ventilation and other forms of engineering controls are the preferred means for controlling exposures. |
| Eye/face protection | Wear chemical safety goggles to prevent eye contact. Have eye washing facilities readily available where eye contact can occur |
| Skin protection | Avoid skin contact with this material. If skin contact is anticipated, protective clothing, including impervious gloves, should be worn. Protective glove materials include, but are not limited to natural rubber, neoprene or nitrile. |

## 9. Physical and chemical properties

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| Appearance | Clear, Pale yellow liquid |
| Odour | Slight odour |
| pH | Alkaline |
| Melting point/freezing point | NA |
| Specific Gravity | >1.15 |
| Freezing Point | -15 degree C |
| Water solubility | Soluble |

## 10. Stability and reactivity

STABILITY/INCOMPATIBILITY:- Incompatible with strong oxidizers. Avoid contact with metals. See precautions under Handling & Storage

## 11. Toxicological information

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| Potential routes of exposure | Inhalation, skin contact, eye contact |
| Potential effects of acute overexposure | Inhalation exposure may cause tingling, coughing, sneezing, and difficulty breathing. Symptoms of skin and eye contact may include redness and irritation. Ingestion may cause stomach pains, cramps, and gastritis. |
| Potential effects of chronic overexposure | Prolonged or repeated skin overexposure to this product may cause dermatitis (dry, red skin). Symptoms may include tingling, redness, and visible injury. |
| Symptoms of over-exposure | Immediate: Inhalation exposure may cause tingling, coughing, sneezing, and difficulty breathing. Symptoms of skin and eye contact may include redness and irritation.Ingestion may cause stomach pains, cramps, and gastritis. Delayed: Prolonged or repeated skin overexposure to this product may cause dermatitis (dry, red skin). Symptoms may include tingling, redness, and visible injury. |
| Conditions aggravated by overexposure | Preexisting dermatitis, other skin conditions, and respiratory conditions may be aggravated by exposures to this product. |
| Recommendations to physicians | Treat symptoms and eliminate exposure. |
| Irritation | YES This product can be irritating to contaminated tissue. |
| Sensitization | NO |
| Carcinogenicity | NO |
| Mutagenicity | NO |
| Reproductive toxicity | NO |
| Biological Exposure Index | N/A |
| Other potential health effects | Currently, there are no Biological Exposure Indices (BEIs) for any component of this product. |

## 12. Ecological information

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| Ecotoxicity | No information available. |
| Persistence and Degradability | The components of this product decompose in soil and water. |
| Bioaccumulative Potential | The components of this product are not expected to bioaccumulate. |
| Mobility in Soil | When spilled onto soil, this product will infiltrate downward, the rate being greater with lower concentration because of reduced viscosity. During transport through the soil, this product will dissolve some of the soil material, in particular, carbonatebased materials. |

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| Other adverse effects | This product may be harmful to aquatic life if large volumes of it are released into an aquatic environment. |

## 13. Disposal considerations

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| Preparing Wastes of this Product for Disposal | Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with local regulations. This product, if unaltered by the handling, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority. |
| Disposal of Contaminated Packaging | Cleaned containers can be recycled or disposed of as non-contaminated waste, if authorized by your local authorities. Dispose of containers as required by local regulations. |
| EPA Waste Number | Not applicable. |

## 14. Transport information

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| UN Number | Not applicable |
| Proper shipping name | Not applicable |
| Hazard Class | Not applicable |
| Packing group | Not applicable |
| Marine Pollutant NA Emergency Response Guide Number (2008) | Not applicable |
| Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code) | Not applicable |
| Special Transport Precautions | Not applicable |
| National Motor Freight | #70 |

International Air Transport Association

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|---|---|
| UN Number | Not applicable |
| Proper shipping name | Not applicable |
| Hazard Class | Not applicable |
| Packing group | Not applicable |
| IATA Emergency Response Code | Not applicable |
| Excepted Quantity | Not applicable |

International Maritime Organization

| | |
|---|---|
| UN Number | Not applicable |
| Proper shipping name | Not applicable |
| Hazard Class | Not applicable |
| Packing group | Not applicable |
| Marine Pollutant NA Emergency Response Guide Number (2008) | Not applicable |
| Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code) | Not applicable |

## 15. Regulatory information

No information available.

## 16. Other information

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