# Material Safety Data Sheet

**RO Antiscalant Aquatec 3000** (RXSOL-33-3343-250)

## 1. Product and Company Identifaction

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| Product Name | RO Antiscalant Aquatec 3000 |
| Part Number | RXSOL-33-3343-250 |

Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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|---|---|
| Phone | +91 22 20871200 - 1400 |
| Fax | +91 22 27612100 :::AOH :0091 9821214367 |
| Email | mail@rxmarine.com |
| Website | www.rxmraine.com |


## 2. Composition / informationon ingredients

Proprietory blend of chelating agents and deflocculating agents

## 3. Hazards Identification

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| Signal Word | None. |
| Hazard Statements | H272 May intensify fire; oxidizer. H302 Harmful if swallowed. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects. |
| Precautionary statements | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep away from clothing and other combustible materials. P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P273 Avoid release to the environment. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Classification of the substance or mixture | Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. |
| Supplemental Hazard Statements | None. |
| Other hazards | The substance does not fulfill the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH. |

## 4. First Aid Measures

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| General advice | None. |
| If inhaled | Not expected to require first aid. If necessary, remove to fresh air. |
| Eye Contact | May cause slight irritation. |
| Swallowed | Dilute with water or milk. Call a physician if necessary. |
| Skin Contact | May cause slight irritation. |
| Inhalation | Remove patient to fresh air, keep warm and at rest and get medical assistance in necessary. |
| Ingestion | Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately. |

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| Most important symptoms and effects, both acute and delaye | Wash areas of contact with water. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation. |
| Indication of any immediate medical attention and special treatment needed | Not expected to require special treatment. |

## 5. Fire-fighting Measures

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| Flammability | May be combustible at high temperature. |
| Suitable extinguishing media | Use any means suitable for extinguishing surrounding fire. |
| Unsuitable extinguishing media | Water Foam |
| Special hazards arising from the substance or mixture | Not considered to be a fire or explosion hazard. |
| Further information | No data available |
| Hazardous combustion products | Fire may cause the evolution of Sulphur oxides, nitrogen oxides. |
| Advice for firefighters | Use protective clothing and breathing equipment appropriate for the surrounding fire. |
| Protective Equipment | Use personal protective equipment. |
| Specific Hazards Arising from the Chemical | Has a fire-promoting effect due to the release of oxygen.<br>Ambient fire may liberate hazardous vapours. |

## 6. Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures | Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves. |
| Spillage | Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal. |
| Personal Protection | Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8. |
| Enviromental Precaution | Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. |
| Methods and materials for containment and cleaning | Absorb with suitable material and treat as normal refuse. Small amounts of the liquid may be flushed to the drain with excess water. Always dispose of in accordance with local regulations. |

## 7. Handling and Storage

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| Advice on safe handling | Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. |
| Advice on protection against fire and explosion | Keep away from open flames, hot surfaces and sources of ignition. |
| Incompatible materials | Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills. |
| Hygiene measures | Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2. |
| Precautions for safe handling | Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. |
| Conditions for safe storage, including any incompatibilities | Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. |
| Storage conditions | Tightly closed. Away from combustible materials and sources of ignition and heat. Do not store near combustible materials. Do not store near acids. Store under inert gas. |
| Storage class | Strong bases, Strong acids, Sources of ignition, Direct sunlight. |
| Specific end use(s) | None. |
| Advice on general occupational hygiene | Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance. |
| Requirements for storage | Keep in cool and store under shade. |

## 8. Exposure controls and personal protection

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| Exposure controls | No specific additional engineering controls are required. Provide good natural or artificial ventilation. |
| Engineering Control | General industrial hygiene practice. |
| Eye/face protection | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). |
| Body Protection | Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Skin protection | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. |
| Respiratory protection | Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Other Protection Measure | Handle in accordance with good industrial hygiene and safety practice. |
| Control of environmental exposure | Do not let product enter drains. |
| Thermal hazards | No data available |



Gloves



Suit

## 9. Physical and chemical properties

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| Physical state | Liquid |
| Colour | Colourless |
| Odour | Characteristic |
| Odor Threshold | Not Applicable |
| pH | 10-12 |
| Melting Point | No data available |
| Boiling Point | No data available |
| Flash Point | No data available |

## 10. Stability and reactivity

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| Reactivity | No data available |
| Stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | No data available |
| Conditions to avoid | Direct sunlight, Extremely high or low temperatures. |
| Incompatible materials | Copper, aluminum and oxidizing agents. |
| Hazardous Polymerization | Fumes, Carbon monoxide, Carbon dioxide. |

## 11. Toxicological information

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| Acute toxicity | No data available |
| Skin corrosion/irritation | No data available |
| Serious eye damage/eye irritation | Eyes - Rabbit Result: Eye irritation (Draize Test) |
| Respiratory or skin sensitization | No data available |
| Toxic Effects on Human | May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer). |

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| Carcinogenicity | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| Germ cell mutagenicity | No data available |
| Reproductive toxicity | May damage the unborn child. May damage fertility. |
| Specific target organ toxicity - single exposure | May cause respiratory irritation. |
| Special Remarks on other Toxi Effects on Humans | Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reation, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism. |
| Endocrine disrupting properties | RTECS: Not available |

## 12. Ecological information

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| Persistence and degradability | No data available |
| Toxicity to fish | LC50 - Oncorhynchus mykiss (rainbow trout) - 0,08 mg/l - 96,0 h |
| Toxicity to daphnia and other aquatic invertebrates | EC50 - Daphnia magna (Water flea) - 0,17 mg/l - 48 h |
| Toxicity to algae | No data available |
| Toxicity to bacteria | No data available |
| Mobility in soil | No Information available |
| Results of PBT and vPvB assessment | The substance does not fulfill the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH. |
| Endocrine disrupting properties | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| Other adverse effects | Avoid release to the environment. |

## 13. Disposal considerations

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| Disposal methods | | Dispose of as unused product. |
| Waste treatment | Method | Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. |

## 14. Transport information

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| UN number | ADR/RID: | IMDG: | IATA: |
| UN proper shipping name | ADR/RID: | IMDG: | IATA: |
| Transport hazard class(es) | ADR/RID: | IMDG: | IATA: |
| Packaging group | ADR/RID: | IMDG: | IATA: |
| Environmental hazards | ADR/RID: yes | IMDG: yes | IATA: yes |
| Special precautions for user | Tunnel restriction code : (C/E) | | |
| Further information | Not classified as dangerous in the meaning of transport regulations. | | |
| Transport in bulk according to IMOinstruments | No data available | | |

## 15. Regulatory information

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| Inventory status | Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes S24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65. |

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| Safety, health and environmental regulations/legislation specific for the substance or mixture | This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. |
| National legislation | Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : OXIDISING LIQUIDS AND SOLIDS : ENVIRONMENTAL HAZARDS |
| Other regulations | Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. |
| Chemical Safety Assessment | For this product a chemical safety assessment was not carried out. |

## 16. Other information

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| 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 weassume 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.<br><br>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. |