Material Safety Data Sheet

Antiscalant RO (RXSOL-33-3302-230)

1. Product and Company Identifaction

Product Code	RXSOL-33-3302-230
Product Name	ANTISCALANT

Company Details:

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

Stock Points: Mumbai, Kandla, Kolkata, Chennai, Vizag, Fujairah UAE, Muscat Oman, Kenya, Canada

Phone	+91 22 65113333 / 5555 / 9999
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2. Composition / informationon ingredients

INGREDIENTS	CAS no	Concentration	Exposure Limits / Health Hazards
Phosphonic acid, (1-hydroxyethylidene)bis-, disodium salt	7414-83-7	10%	ND
PHOSPHONIC ACID (1-HYDROXYETHYLIDENE)BIS	2809-21-4	7- 13 %	ND
Proprietary Blend of polymerised polyacrylate	-	>80%	ND

3. Hazards Identification

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

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
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

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

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

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

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

Appearance	Yellow to Amber liquid
Odour	NA
pH	3-6
Melting point/freezing point	-4 deegree
Specific Gravity	1.05
Bulk Density	NA
Flah Point	NA
Water solubility	Completely soluble

10. Stability and reactivity

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

11. Toxicological information

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

12. Ecological information

11. Toxicological information

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

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.
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

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

DOT

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

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

SARA 302 RQ	NO
SARA 302 TPQ	NO
SARA 313 LISTED	NO
SARA 311/312 ACUTE	NO
SARA 311/312 CHRONIC	YES
SARA 311/312 FIRE	NO
SARA 311/312 PRESSURE	NO
SARA 311/312 REACTIVITY	NO
EPA EXTREMELY HAZARDOUS SUBSTANCE	NO
WHMIS	E
DSL	YES
NDSL	N/A
REACH Pre-registered List	YES
TSCA	YES

16. Other information

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