Material Safety Data Sheet

Antiscalant 260 (RXSOL-33-3327-260)

1. Product and Company Identifaction

Product Name	Antiscalant RXSOL ORG EV (Antiscalant for Seawater Distillation Plants)
Part Number	RXSOL-33-3327-240

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Component	CAS-No	Weight %
POLYMALEIC ACID	26099-09-2	33-60 %
MALEIC ACID (CERCLA)	110-16-7	1-10 %
(3-METHYLPHENYL)METHYL, BUTANEDIOIC ACID	6315-20-4	1-10 %
(4-METHYLPHENYL)METHYL, BUTANEDIOIC ACID	6315-21-5	1-10 %

3. Hazards Identification

Signal Word	:	Irritant
Hazard Statements	:	Under normal conditions of use material is corro to eye tissues.Product corrosive to eye & may cause permanent damage.Product may be irritant to skin & respiratory system..
Label Elements	:	May cause irritation to the respiratory system. Avoid to touch with naked skin and eye..
Ingesion	:	May cause discomfort if swallowed. May cause stomach pain or vomiting.

4. First Aid Measures

Eye Contact :	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact:	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact:	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:	Not available.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Serious Ingestion: Not available.

5. Fire-fighting Measures

Flammability of the Product: Non-flammable.
Auto-Ignition Temperature: Not applicable.
Flash Points: Not applicable.
Flammable Limits: Not applicable.
Products of Combustion: Not available.
Fire Hazards in Presence of Various Substances: products including carbon monoxide and carbon dioxide, may be produced in fire.minimal fire haz(aqueous solution).
Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions: Not applicable.
Special Remarks on Fire Hazards: Not available.

6. Accidental Release Measures

Small Spill:
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.
Large Spill:
Corrosive liquid. Oxidizing material. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other noncombustible material. Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and Storage

Handling : Avoid inhalation of vapors/spray and contact with skin and eyes. Avoid eating, drinking and smoking when using the product. Observe good chemical hygiene practices.
Storage
Protect against physical damage and/or friction. Keep in original container. Store in tightly closed original container in a dry and cool place. Store away from: Alkalis. Reducing Agents. Do NOT use container made of: Carbon steel. Store away from strong oxidising agents.

8. Exposure controls and personal protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Respiratory Equipment : No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended . Occupational Exposure Limit

Hand Protection : For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Butyl rubber.

Eye Protection : Wear approved safety goggles. Use face shield in case of splash risk.

Hygiene Measure : Wash hands at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily if there is any possibility of contamination. No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially whenworking with chemicals.

Skin Protection : Wear apron or protective clothing in case of contact



Gloves



Suit

9. Physical and chemical properties

Physical State	:	Liquid
Appearance	:	Clear Amber Liquid
Odor	:	Slight
Odor Threshold	:	No information available.
PH	:	2
Boiling Point/Range	:	100°C - 102°C
Flash Point	:	NA
Freezing point	:	0 - 12°C
Evaporation Rate	:	No information available.
Vapor Pressure	:	No data available.
Vapor Density		No data available.
Relative Density	:	1.16-1.19
Solubility in Water	:	Complete
Viscosity	:	10-25 cst@25°C
Partition coefficient n octanol/water	:	Not available.
Iron PPM	:	10
Led PPM	:	10
Heavy Metal PPM	:	10

10. Stability and reactivity

Stability	:	The product is stable.
Instability Temperature	:	Not available.
Conditions of Instability	:	Incompatible materials,Moisture
Incompatibility with various substances	:	Reactive with oxidizing agents, alkalis.
Corrosivity		corrosive
Special Remarks on Corrosivity		Not Available
Polymerization		Will not occur.

11. Toxicological information

Routes of Entry		Inhalation. Ingestion.
Toxicity to Animals		LD50: Not available. LC50: Not available
Chronic Effects on Humans		Not available
Other Toxic Effects on Humans		Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).
Special Remarks on Toxicity to Animals		Not available.
Special Remarks on Chronic Effects on Humans		Not available
Special Remarks on other Toxic Effects on Humans		May cause discomfort if swallowed. May cause stomach pain or vomiting.SKIN CONTACT:Non Irritant .Not a Skin Sensitiser EYE CONTACT :Irritating to eyes. HEALTH WARNINGS : No specific health warnings noted. OTHER HEALTH EFFECTS : This substance has no evidence of carcinogenic properties. MEDICAL SYMPTOMS : Eye contact may cause: Visual disturbances, incl. blurred vision

12. Ecological information

Ecotoxicity:	Not available.
BOD5 and COD:	Not available.
Products of Biodegradation :	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation:	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation:	Not available.

13. Disposal considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations

14. Transport information

TDG SHIPPING NAME CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Polymaleic acid.)

Environmentally. Hazardous Substance/Marine Pollutant	:	No
Identification No.	:	Un 3265
Dot Hazard Class	:	8
Dot Packing Group	:	III
U.S Dot Hazard Label	:	Corrosive
Un No. Sea	:	3265
Imdg Class	:	8
Imdg Pack Gr.	:	III
Ems	:	F-A, S-B
EmsMarine Pollutant	:	No
Un No. Air	:	3265
Air Pack Gr.	:	III
Tdg Packing Group	:	III

15. Regulatory information

Federal and State Regulations: TSCA 8(b) inventory: Polymelic Acid
Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classifications:
WHMIS (Canada): Not controlled under WHMIS (Canada).
DSCL (EEC):
R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.
HMIS (U.S.A.):
Health Hazard: 2
Fire Hazard: 0
Reactivity: 0
Personal Protection: C

National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 0
Reactivity: 0
Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

16. Other information

Full text of R-Phrases

R23/24/25 :Toxic by inhalation, in contact with skin and if swallowed.
R34 :Causes burns.
R38 :Irritating to skin.
R41 :Risk of serious damage to eyes.

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