Material Safety Data Sheet

Scale Inhibitor with Antifoamer (RXSOL-16-1056-025)

1. Product and Company Identifaction

Product Name	Scale Inhibitor P
Product Type	RXSOL-16-1056-025

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

Stock Point ::: Mumbai, Muscat, Kandla, Kolkata, Visakhapatnam, Chennai, Fujairah

Phone	+91 22 27815540 / 41 / 42
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Email	mail@rxmarine.com

2. Composition / informationon ingredients

Component	CAS-No	Weight %- Range
Trisodium Ortho Phosphate	7601-54-9	1-5
Ethane-1,2-diol	107-21-1	1-5

3. Hazards Identification

EMERGENCY OVERVIEW:
Main physical hazards:
No classified physical hazards.

Main physical hazards	No classified physical hazards.
Main health hazards	Repeated or prolonged exposure may cause irritation of eyes and skin.
Precautions	Avoid contact with the skin and the eyes. Wear suitable protective equipment. Keep container tightly closed.
HMIS classification	Health: 1 Flammability: 0 Physical hazard: 0

4. First Aid Measures

Eye contact	Immediately flush eyes with water for 5 minutes while holding eyelids open.
Skin contact	Rinse with water. If symptoms persist, call a physician.
Ingestion	Do not induce vomiting without medical advice. Obtain medical attention.

Inhalation	Move to fresh air in case of accidental inhalation of vapors. Consult a physician if necessary.

5. Fire-fighting Measures

Flash point	>100 °C / >212 °F
Method	Pensky-Martens CC
Autoignition temperature	No data available.
Flammability limits in air Lower Upper	 No information available. No information available.
Oxidizing properties	No data available
Suitable extinguishing media	Use extinguishing media appropriate for surrounding material.
Extinguishing media which must not be used for safety reasons	Not applicable.
Special exposure hazards arising from the substance or preparation itself, its combustion products, or releasedgases	Carbon oxides.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.
NFPA rating Health Flammability Instability	 1 0 0
Special	None

6. Accidental Release Measures

Main physical hazards	No classified physical hazards.
Personal precautions	Avoid contact with skin and eyes. Wear suitable protective equipment.
Methods for cleaning up	Dam up. Put into suitable containers for disposal.
Environmental precautions	Prevent product from entering drains. Prevent entry into sewage.

7. Handling and Storage

Handling Precautions	Avoid contact with the skin and the eyes. Wear suitable protective equipment. Keep container tightly closed.
Safe handling advice	Wear suitable protective equipment.

Technical measures/storage conditions	Keep away from direct sunlight. Keep container tightly closed.
Packaging requirements	Keep in properly labelled containers.
Incompatible products	No information available.

8. Exposure controls and personal protection

Engineering measures to reduce exposure	Control the source. Enclosure of the process. Other suitable methods.
Hygiene measures	Avoid prolonged or repeated contact with skin. Wear suitable protective equipment.
Respiratory protection	None normally needed
Eye protection	Tightly fitting safety goggles.
Hand protection	Neoprene. Nitrile. Butyl. PVC.
Skin and body protection	Chemical resistant apron.

	ACGIH - TLVs			OSHA - PELs		
Component	TWA / Ceiling	STEL	ACGIH - Skin	TWA / C	STEL	Final PELs - Skin
Trisodiumortho phosphate						
Ethane-1,2-diol	100 mg/m3 C					

Particles Not Otherwise Regulated/Specified [PNOR or PNOS] (insoluble or poorly soluble):
OSHA PEL's for Inert or Nuisance Dust are covered by PNOR limits: respirable fraction: 5 mg/m3; total dust 15 mg/m3.

ACGIH PNOS Recommendations: Airborne concentrations should be kept below 3 mg/m3, respirable particulate, and 10 mg/m3,inhalable particles.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Form	Liquid
Color	Clear to hazy yellow
Odor	None
Odor threshold	No information available.
pH	4
Boiling point/range	No data available.
Flash point	>100 °C / >212 °F
Method	Pensky-Martens CC.
Flammability limits in air Lower	No information available.
Upper	No information available.

Bulk density	Not applicable.
Melting point/range	No data available.
Decomposition temperature	No data available.
Water solubility	Soluble.
Fat solubility:	No information available.
Partition coefficient (n-octanol/water)	Not applicable.
Relative density	No information available
Vapor pressure	Similar to water
Vapor density	No data available
Viscosity	No data available
Evaporation rate	Similar to water.
%Volatile (VOC)	No data available.

10. Stability and reactivity

Stability	: Stable under recommended storage conditions.
Conditions to avoid	: Freezing.
Incompatibility with other substances	: None known.
Hazardous decomposition products	: Carbon oxides.
Hazardous polymerization	: Hazardous polymerization does not occur.

11. Toxicological information

PRODUCT TOXICOLOGICAL INFORMATION:
Information given is based on data on the components and the toxicology of similar products.

Eye contact	: May be mildly irritating.
Skin contact	: Prolonged skin contact may cause skin irritation.
Ingestion	: Swallowing large amounts may be harmful.
Inhalation	: No effect expected.
Sensitization - lung	: Not known to cause allergic reaction.
Sensitization - skin	: Not known to cause allergic reaction.

Chronic Health Hazard:

Carcinogenic effects	:Not listed by IARC, USA NTP, or USA OSHA.
Mutagenic effects	:See COMPONENT TOXICOLOGICAL INFORMATION below.
Teratogenic effects	:Not known to cause birth defects or have a deleterious effect on a developing fetus.
Reproductive toxicity	:Not known to adversely affect reproductive functions and organs.
Target organ effects	:See COMPONENT TOXICOLOGICAL INFORMATION below.

COMPONENT TOXICOLOGICAL INFORMATION:

Component	Target Organ Effects	LD50 / LC50
Trisodiumortho phosphate	-	> 2000 mg/kg (Oral LD50; Rat) = 2.16 mg/L (Inhalation LC50; Rat) 1 h = 2 mg/kg (Dermal LD50; Rabbit)
Ethane-1,2-diol	respiratory system, skin,eyes,CNS	= 4000 mg/kg (Oral LD50; Rat) = 9530 ?L/kg (Dermal LD50; Rabbit)

Component	IARC Group 1 or 2:	ACGIH - Carcinogens:	OSHA Listed Carcinogens	NTP
Trisodiumortho phosphate				
Ethane-1,2-diol		A4 - Not Classifiable as a Human Carcinogen (aerosol)		

Component	OTHER TOXICOLOGICAL INFORMATION
Ethane-1,2-diol	Mutagen - somatic cells. Long termexposure by inhalation in controlled animal studies show ed sense organ effect, especially eyes, w ith corneal damage. Large oral doses caused liver,kidney, ureter and bladder effects in animal studies. Fetotoxic and teratogenic effects observed in controlled animal studies. Skin sensitivity: tw o cases of sensitization to ethylene glycol in occupational setting have been reported. Central nervous system(CNS) depressant.

12. Ecological information

PRODUCT INFORMATION:

COMPONENT INFORMATION:

Ethane-1,2-diol:

Bioaccumulation	Does not bioaccumulate
Persistence / degradability	Readily biodegradable.
Freshwater Fish Species Data	EC50 96 h (Selenastrumcapricornutum) = 6500 - 13000 mg/L
Freshwater Fish Species Data	LC50 96 h (Oncorhynchus mykiss) = 41000 mg/L LC50 96 h (Oncorhynchus mykiss) = 14-18 ml/L
Water Flea Data	LC50 96 h (Lepomis macrochirus) = 27540 mg/L LC50 96 h (Oncorhynchus mykiss) = 40761 mg/L LC50 96 h (Pimephales promelas) = 40000-60000 mg/L LC50 96 h (Poecilia reticulata) = 16000 mg/L LC50 96 h (Oncorhynchus mykiss) = 41000 mg/L
Other information	EC50 48 h (w ater flea) = 46300 mg/L Listed on PLONOR list of OSPAR

13. Disposal considerations

Waste from residues / unused products:
Dispose of in accordance with local regulations.

Contaminated packaging:
If reusable containers are used, send them back to the product supplier, after the required rinsing.

EPA RCRA HazardousWaste Code:
None

14. Transport information

DOT:

CERCLA RQ	: None
Hazard class	: Not regulated.
Proper shipping name	: Not regulated
Label(s)	: None required.

IMDG/IMO:

Shipping name	: Not regulated.
UN number	: None

ICAO/IATA

Shipping name:	: Not regulated.
UN number:	: None

TDG(Canada):

Shipping name	: Not regulated.
PIN	: None

Note 1:
For the applicable placard selection refer to the appropriate transport regulations; the selection may vary depending on the cargo size and categories of other hazardous materials in the cargo.

15. Regulatory information

International Chemical Inventories :

USA, Toxic Substances Control Act inventory (TSCA)	: This product complies with TSCArequirements.
Canada, Domestic Substance List (DSL)	:This product complies with DSL requirements.

OSHA Hazard Communication Standard:
(Complies with USAOSHA29 CFR 1910.1200 and ANSI Z 400.1)

EPA RCRA Hazardous Waste Code:
None

EPA, Sections 311 and 312 - Material Safety Data Sheet Requirements (40 CFR 370):

Immediate (Acute) Health Hazard	: None
Delayed (Chronic) Health Hazard	: None
Fire Hazard	: None
Sudden Release or Pressure Hazard	: None
Reactive Hazard	: None

EPA, Sections 313 - List of Toxic Chemicals (40 CFR 372):
This product contains the following substance(s), which appear(s) on the List of Toxic Chemicals:

Additional Regulatory Information:

Trisodium ortho phosphate:

EPA, CERCLA Section 102a/103 Hazardous Substances (40 CFR 302.4)	: None
CERCLA/SARA - Hazardous Substances and their RQs	: None
EPA, SARA TITLEIII Section 304, Extremely Hazardous Substances (40 CFR 355.40)	: None
California Proposition 65	: None

International Hazard Class:
WHMIS Hazard Class:
Non-controlled product.

16. Other information

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and

does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.