

1. Product and Company Identification

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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

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2. Composition / Information on ingredients

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| 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

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EMERGENCY OVERVIEW:

Main physical hazards:
No classified physical hazards.

Main physical hazards
Main health hazards
Precautions

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

HMIS classification

4. First Aid Measures

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|--------------|---|
| 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

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| | |
|------------------------------|---|
| Flash point | >100 °C / >212 °F |
| Method | Pensky-Martens CC |
| Autoignition temperature | No data available. |
| Flammability limits in air | No information available. |
| Lower | No information available. |
| Upper | |
| 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 released gases | Carbon oxides. |
| Special protective equipment for firefighters | Wear self-contained breathing apparatus and protective suit. |
| NFPA rating | |
| Health | 1 |
| Flammability | 0 |
| Instability | 0 |
| Special | None |

6. Accidental Release Measures

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| | |
|---------------------------|---|
| 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

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| | |
|---------------------------------------|--|
| 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

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|---|--|
| 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. |

| Component | ACGIH - TLVs | | | ACGIH - Skin | TWA / C | OSHA - PELs | |
|--------------------------|-------------------------|------|------|--------------|---------|-------------------|--|
| | TWA / Ceiling | STEL | STEL | | | Final PELs - Skin | |
| Trisodium orthophosphate | | | | | | | |
| Ethane-1,2-diol | 100 mg/m ³ 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

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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

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| | |
|---------------------------------------|--|
| 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

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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 term exposure 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

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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

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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 Hazardous Waste Code:

None

14. Transport information

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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

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International Chemical Inventories :

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

OSHA Hazard Communication Standard:
(Complies with USA OSHA 29 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 TITLE III 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

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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.

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