

## 1. Product and Company Identification

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Product Name Corrosion Inhibitor for metal RUST Preventive  
Part Number RXSOL-16-1027-025

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

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

## 2. Composition / Information on ingredients

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| Name of Substance                           | Cas Number | EC Number | Concentration | R/H Phrases  |
|---------------------------------------------|------------|-----------|---------------|--------------|
| Phosphoric (Orthophosphoric) acid           | 7664-38-2  | 231-633-2 | 10 - 30%      | R34 - H314,  |
| Zinc Chloride                               | 7645-85-7  | 231-590-2 | 10 - 30%      | R22,R34,H302 |
| 2-Phosphonobutane-1,2,4-tri carboxylic Acid | 37971-36-1 | 253-733-5 | 10 - 30%      | R36 - H319   |

## 3. Hazards Identification

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|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                       | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hazard Phrases                    | Harmful if swallowed (H302).<br>Causes severe skin burns and eye damage (H314).<br>May cause respiratory irritation (H335).<br>Toxic to aquatic life with long lasting effects (H411).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Precautionary Phrases- prevention | P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking.<br>If medical advice is needed, have product container or label at hand (P101).<br>Wear protective gloves/protective clothing/eye protection/face protection (P280).<br>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician(P301+P310).<br>Rinse mouth (P330).<br>Do NOT induce vomiting (P331).<br>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).<br>Immediately call a POISON CENTER or doctor/physician (P310).<br>Dispose of contents/container to an authorised waste collection point (P501) |
| Other Hazard                      | - Not applicable<br>- Not a PBT according to REACH Annex XIII<br>- Odour: Characteristic odour<br>- Appearance: colourless to yellow, miscible with water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## 4. First Aid Measures

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|                                                             |                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If Inhaled:                                                 | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341). Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). When in doubt or symptoms persist, seek medical attention |
| If Swallowed:                                               | rinse mouth. Do NOT induce vomiting (P301+P330+P331). Give plenty of water to drink. Never make an unconscious person vomit or drink fluids. When in doubt or symptoms persist, seek medical attention                                                                                 |
| If In Eye                                                   | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338). Obtain immediate medical attention.                                                                                                              |
| Most important symptoms and effects, both acute and delayed | Can cause damage to the eyes.<br>Possible blistering of the skin of affected areas.<br>The ingestion of significant quantities may cause damage to mucous membranes.<br>The ingestion of significant quantities may cause damage to stomach lining.                                    |

## 5. Fire-fighting Measures

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|                                                       |                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extinguishing media                                   | Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions                                                                                                                                                                            |
| Special hazards arising from the substance or mixture | Smoke from fires is toxic. Take precautions to protect personnel from exposure. Smoke from fires is corrosive. Take precautions to protect personnel from exposure                                                                                                      |
| Advice for firefighters                               | Keep container(s) exposed to fire cool, by spraying with water<br>In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion (P371+P380+P375). Wear chemical protection suit and positive-pressure breathing apparatus |

## 6. Accidental Release Measures

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|                                                                     |                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | In case of insufficient ventilation, wear suitable positive pressure respiratory protection equipment. Wear chemical protection suit. Wear neoprene or nitrile gloves                                                                                                                                   |
| Environmental Precautions                                           | Avoid release to the environment (P273). Do not flush spilt material into any public water system                                                                                                                                                                                                       |
| Methods and material for containment and cleaning up                | Eliminate all ignition sources if safe to do so (P381). Absorb spillage in earth or sand. Place in sealable container. Seal containers and label them. Remove contaminated material to safe location for subsequent disposal. Ventilate the area and wash spill site after material pick-up is complete |
| Reference to other sections                                         | See Section 13                                                                                                                                                                                                                                                                                          |

## 7. Handling and Storage

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|                                                              |                                                                                                                                                                                   |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling                                | Avoid breathing dust/fume/gas/mist/vapours/spray (P261). Avoid contact with alkalis (strong bases). Avoid contact with metals. Eyewash bottles should be available. See Section 8 |
| Conditions for safe storage, including any incompatibilities | Keep container tightly closed (P233). Keep cool. Protect from sunlight (P235+P410). Avoid contact with alkalis (strong bases)                                                     |
| Specific end use(s)                                          | Restricted to professional users                                                                                                                                                  |

## 8. Exposure controls and personal protection

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### Control parameters

Phosphoric acid ... %,  
Orthophosphoric acid ... %  
WEL (long term) 1 mg/m<sup>3</sup>  
WEL (short term) 2 mg/m<sup>3</sup>  
Zinc Chloride.....  
WEL (long term) 1 mg/m<sup>3</sup>  
WEL (short term) 2 mg/m<sup>3</sup>

### Exposure controls

#### Occupational exposure controls

Ensure adequate ventilation  
TWA: 2 STEL: 4 (ppm) from ACGIH (TLV) [United States] TWA: 2 STEL: 4 from OSHA (PEL) [United States] Consult local authorities for acceptable exposure limits.

#### Other Protection Measure

In case of inadequate ventilation wear respiratory protection (P285).  
Wear suitable respiratory protection. Gas cartridge (acid gases). Wear suitable protective clothing, including eye/face protection and gloves (neoprene or nitrile are recommended) Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.



Gloves Suit

## 9. Physical and chemical properties

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### Odour

Characteristic

### Appearance

Characteristic, miscible with water

### pH

1 - 2

### Boiling point

100 °C

### Density

>1 at 20 deg C

### Other information

No information available

## 10. Stability and reactivity

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### Reactivity

This article is considered stable under normal conditions

### Possibility of hazardous reactions

No information available

### Incompatible materials

Incompatible with alkalis (strong bases). Avoid contact with metals.

### Conditions to avoid

Keep away from frost

### Hazardous Decomposition Products

Oxides of phosphorous and phosphorous acid mist

## 11. Toxicological information

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### Information on toxicological effects

LD50 (oral,rat) (Phosphoric acid) 2600 mg/kg  
LD50 (oral,rat) (Zinc Chloride) 1100-1260 mg/kg  
LD50 (oral,rat) (2-Phosphonobutane-1,2,4-tricarboxylic Acid) >6500

|                   |                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact with eyes | mg/kg<br>Can cause damage to the eyes                                                                                                                          |
| Contact with Skin | May cause blistering of the skin                                                                                                                               |
| Ingestion         | Not regarded as a potential route of exposure. Can cause damage to the stomach lining. In cases of severe exposure, gastro-intestinal disturbances may develop |
| Inhalation        | Shall not be classified as presenting an aspiration hazard.<br>In cases of severe exposure, breathing difficulty may develop                                   |

## 12. Ecological information

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|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity                           | LC50 (fish) (2-Phosphonobutane-1,2,4-tricarboxylic Acid) 5300 mg/l (96 hr).<br>LC50 (fish) (Phosphoric acid) 3-3,25 mg/l (96 hr).<br>LC50 (fish) (Zink Chloride) 1,169 mg/l (96 hr).<br>This product contains an acidic component which may cause a low pH-value. Effect depends on water quality and the organisms' tolerance due to pH-value. This product contains components which are classified in the EU as dangerous for the environment. |
| Process of degradability           | The components in this product are readily biodegradable.                                                                                                                                                                                                                                                                                                                                                                                         |
| Bioaccumulative potential          | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mobility in soil                   | Miscible with water                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Results of PBT and vPvB assessment | Not a PBT according to REACH Annex XIII                                                                                                                                                                                                                                                                                                                                                                                                           |
| Other adverse effects              | No information available                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 13. Disposal considerations

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|                         |                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods | Disposal should be in accordance with local, state or national legislation. Dispose of contents/container to an authorised waste collection point (P501) |
| Classification          | EU Waste class: 06 01 04                                                                                                                                 |

## 14. Transport information

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|                                                                          |                                                                                                  |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| UN Number                                                                | UN3264                                                                                           |
| Proper shipping name                                                     | Corrosive liquid, acidic, inorganic, n.o.s. (Zink Chloride, phosphoric acid mixture)             |
| Hazard Class                                                             | 8                                                                                                |
| Packing Group                                                            | III                                                                                              |
| Environmental hazards                                                    | This product contains components which are classified in the EU as dangerous for the environment |
| Special precautions for user                                             | No special precautions are required for this product                                             |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | Not Applicable                                                                                   |
| Road/Rail (ADR/RID)                                                      |                                                                                                  |
| UN Number                                                                | UN3264                                                                                           |
| Proper shipping name                                                     | Corrosive liquid, acidic, inorganic, n.o.s. (Zink Chloride, phosphoric acid mixture)             |
| ADR Hazard Class                                                         | 8                                                                                                |
| ADR subrisk                                                              | NA                                                                                               |
| ADR Packing Group                                                        | III                                                                                              |

|                                             |                                                                                                            |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------|
| ADR Flashpoint                              | NA                                                                                                         |
| Sea (IMDG)                                  |                                                                                                            |
| IMDGUN      Number                          | UN3264                                                                                                     |
| Proper shipping name                        | Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Zink Chloride, phosphoric acid mixture) |
| IMDG Hazard Class                           | 8                                                                                                          |
| IMDG subrisk:                               | NA                                                                                                         |
| IMDG Pack Group                             | III                                                                                                        |
| IMDG EmS                                    | F-A, S-B                                                                                                   |
| IMDG Flashpoint                             | NA                                                                                                         |
| Air (ICAO/IATA)                             |                                                                                                            |
| ICAOUN      Number                          | UN3264                                                                                                     |
| Proper shipping name                        | Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Zink Chloride, phosphoric acid mixture) |
| ICAO Hazard Class                           | 8                                                                                                          |
| ICAO subrisk:                               | NA                                                                                                         |
| ICAO Pack Group                             | III                                                                                                        |
| ICAO Flashpoint                             | NA                                                                                                         |
| DOT / CFR (US Department of Transportation) |                                                                                                            |
| Identification      Number                  | UN3264                                                                                                     |
| DOTProper shipping name                     | Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Zink Chloride, phosphoric acid mixture) |
| Product RQ (lbs)                            | NA                                                                                                         |
| Hazardous Material                          | Zink Chloride, phosphoric acid                                                                             |
| Hazard Class                                | 8                                                                                                          |
| DOT subrisk                                 | NA                                                                                                         |

## 15. Regulatory information

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Safety, health and nvironmental regulations/ legislation specific for the substance or mixture

This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU. Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations. Refer to The Dangerous Substances Directive (67/548/EEC). Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous .substances and preparations

Chemical Safety Assessment

Slightly harmful to aquatic organisms.

## 16. Other information

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Other Information

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