Material Safety Data Sheet

Corrosion Inhibitor for metal RUST Preventive (RXSOL-44-1027-005)

1. Product and Company Identifaction

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 / informationon ingredients

Name of Substance	Cas Number	EC Number	Concentation	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-tricarboxylic Acid	37971-36-1	253-733-5	10 - 30%	R36 - H319

3. Hazards Identification

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

4. First Aid Measures

If Inhalded:	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. Possible blistering of the skin of affected areas. The ingestion of significant quantities may cause damage to mucous membranes. The ingestion of significant quantities may cause damage to stomach lining.

5. Fire-fighting Measures

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 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

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

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

Control parameters	Phosphoric acid ... %, Orthophosphoric acid ... % WEL (long term) 1 mg/m3 WEL (short term) 2 mg/m3 Zinc Chloride..... WEL (long term) 1 mg/m3 WEL (short term) 2 mg/m3
Exposure controls	Ensure adequate ventilation
Occupational exposure controls	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 trough 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

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

Recativity	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

Information on toxicological effects	LD50 (oral,rat) (Phosphoric acid) 2600 mg/kg LD50 (oral,rat) (Zink Chloride) 1100-1260 mg/kg LD50 (oral,rat) (2-Phosphonobutane-1,2,4-tricarboxylic Acid) >6500 mg/kg
Contact with eyes	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
	Shall not be classified as presenting an aspiration hazard.
Inhalation	In cases of severe exposure, breathing difficulty may develop

12. Ecological information

Toxicity	LC50 (fish) (2-Phosphonobutane-1,2,4-tricarboxylic Acid) 5300 mg/l (96 hr). LC50 (fish) (Phosphoric acid) 3-3,25 mg/l (96 hr). LC50 (fish) (Zink Chloride) 1,169 mg/l (96 hr). This product contain an acidic component which may cause a low pH-value. Effect depends on waterquality 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

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

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

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. Counsil 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

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.