

1. Product and Company Identification

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Product Name

Antiscalant / Antifoulant - Corrosion Inhibitor 704

Part Number

RXSOL-33-3337-025

Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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2. Composition / Information on ingredients

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Name of Substance	Cas Number
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Disodium phosphonate	13708-85-5
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Phosphonic Acid Derivative Compound	Proprietary
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Proprietary Non Hazardous Ingirdent and Multipolymer

Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

3. Hazards Identification

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Signal Word

Warning

Hazard Statements

May be corrosive to metals.

Precautionary statements - prevention

Avoid release to the environment.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Precautionary statements - response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Contin

Physical Hazards Summary

Metal Corrosion, Category 1

Potential Health Hazards Summary

Eye Irritation Category 2A
H319 Causes serious eye irritation
H290 May cause corrosion to metals

Potential Ecological Effects Summary

None

U.S. OSHA classification

Eye irritant

Classification as per EC 1272/2008 (CLP/GHS)

EC 1272/2008 Eye Irritation Category 2A
(CLP/GHS) H319 Causes serious eye irritation

(CLP/GHS)

H319 Causes serious eye irritation

WHMIS classification

E Corrosive

Other hazards

No data is available on this product.

General Warnings	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use
Hazard statements	H290 May cause corrosion to metals H 319 Causes serious eye irritation
Precautionary statements	P271 Use only outdoors or in a well-ventilated area P281 Use personal protective equipment as required. P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if Avoid breathing dust/ fume/ gas/ mist/ Remove contact lenses, if present and easy to do P302/P352 you feel unwell. P261 P305 + P351 + P338 : P261 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. . . Continue rinsing
Hazard pictograms	Unclassified Hazards Ingredients with unknown acute toxicity

4. First Aid Measures

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Eye Contact	Rinse with water. Get medical attention if irritation develops.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Use emollient. Remove contaminated clothing and shoes. Color change. Reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
Ingestion:	Do not induce vomiting. Obtain medical attention. If vomit occurs, turn on left side (head-down position, if possible) to maintain airway. Get medical attention.
Notes to Physician	Treat symptomatically
Skin exposure	If this product contaminates the skin, immediately blot with dry cloth. Remove exposed or contaminated clothing, taking care not to spread product. Get medical attention if any adverse exposure symptoms develop.
Eye exposure	If this product enters the eyes, open victim's eyes immediately. Use force to open eyelids. Have victim "roll" eyes. Minimize exposure. Get medical attention.
Inhalation:	If vapors, mists, or sprays of this product are inhaled, move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
Ingestion:	If this product is swallowed, CALL PHYSICIAN IMMEDIATELY FOR CURRENT INFORMATION. DO NOT INDUCE VOMITING. Get medical attention if conscious. Never induce vomit.

5. Fire-fighting Measures

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Flammability	Non-flammable.
Flash Point	Not applicable.
Suitable extinguishing media	No information available
Hazardous combustion products	During fire, gases hazardous to health may be formed.
Protective Equipment	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of the materials. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray.
Specific Hazards Arising from the fire	Not considered to be a significant fire risk.

6. Accidental Release Measures

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Small Spillage

Wipe up with absorbent material (e.g. cloth, fleece). Contain and remove contamination. Finish cleaning by spreading water on the spillage area according to local and regional authority requirements.

Large Spillage

Large Spills: Stop the flow of material, if this is without undue risk. If possible. Absorb spillage to prevent material damage. Use vermiculite, sand or earth to soak up the product and remove it. Following product recovery, flush area with water.

Personal Protection

Keep unnecessary personnel away. Keep people away from the spillage. Wear appropriate protective equipment and clothing during clean up. Do not touch spilled material unless wearing appropriate protective clothing. Authorities should be advised if significant spillages cannot be controlled (see section 8).

Environmental Precaution

Do not let product enter drains.

Methods and materials for containment and cleaning

Cover drains. Collect, bind, and pump off spills. Observe label precautions (see 7 and 10). Take up dry. Dispose of properly. Clean up area.

7. Handling and Storage

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Handling

Avoid prolonged exposure. Provide adequate ventilation. Use appropriate equipment. Observe good industrial hygiene practices. If symptoms of insufficient ventilation, wear suitable respiratory equipment. If symptoms occur immediately and show the container or the label. Keep away from children and agents.

Storage

Store in a cool, dry place out of direct sunlight. Keep away from incompatible materials (see Section 10 of the label). Observe local/regional/national/international regulation.

Advice on general occupational hygiene

Advice on safe handling Observe label precautions. Change clothes after working with substance.

8. Exposure controls and personal protection

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Engineering Control

Provide exhaust ventilation or other engineering controls to keep vapors below their respective threshold limit value. Ensure that controls are proximal to the work-station location.

Personal Protection

Eye/face Protection : Wear appropriate protective equipment described by OSHA's eye and face protection regulation. Use equipment Standard EN166.

Skin and body protection : Wear appropriate protective clothing to prevent exposure. **Respiratory Protection** : Follow the OSHA 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH approved respirator if exposure limits are exceeded or if irritation is experienced.

Other Protection Measure

Handle in accordance with good industrial hygiene and safety practices.

Exposure Limit

No exposure limits noted for ingredient(s).

General hygiene considerations

Always observe good personal hygiene measures, such as washing hands before eating, drinking, and/or smoking. Routinely wash hands to remove contaminants.



Gloves Suit

9. Physical and chemical properties

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Form	Liquid
Colour	Clear
Odour	Slight amine
Odor Threshold	No Information Available
pH	11.1 - 11.3
Freezing Point	-5 °C
Boiling Point	102°C
Flash Point	Not Applicable
Evaporation Rate	< 1 (Ether = 1)
Flammability (solid, gas)	No Data Available
Explosive limits	No Data Available
Vapour pressure	18 mm Hg
Vapor pressure temp	70 °F (21 °C)
Vapour Density	< 1 (Air = 1)
Specific Gravity	1.13 - 1.14 at 25 °C
Partition coefficient	No data available
Explosive properties	None
Solubility	Soluble in water
Ignition temperature	Not available

10. Stability and reactivity

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Recativity	May be corrosive to metals.
Stability	Product is stable.
hazardous Decomposition	No hazardous decomposition products are known.
Conditions to avoid	Strong Heating
Incompatible materials	Strong oxidizing agents. Metals
Hazardous Polymerization	Hazardous polymerization does not occur.

11. Toxicological information

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Rout Of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animal	Dermal LD50 Rabbit > 5000 mg/kg, (Calculated according to GHS additivity formula) Inhalation LC50 Rat > 5 mg/l, 4 Hour, (Calculated according to GHS additivity formula) Oral LD50 Rat > 5000 mg/kg, (Calculated according to GHS additivity formula)
Toxic Effects on Humans	Inhalation : No adverse effects due to inhalation are expected. Skin contact : Prolonged or repeated contact may cause irritation. Eye contact : Direct contact with eyes may cause temporary irritation. Ingestion : Expected to be a low ingestion hazard.
Special Remarks on other Toxic Effects on Humans:	Skin corrosion/irritation : Prolonged skin contact may cause temporary irritation. Serious eye damage/eye irritation : Direct contact with eyes may cause temporary irritation. Respiratory or skin sensitization : Respiratory sensitization This product is not expected to cause respiratory sensitization. Skin sensitization : This product is not expected to cause skin sensitization. Mutagenicity : This product is not expected to cause mutagenicity. Germ cell mutagenicity : Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, etc.

12. Ecological information

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Eco Toxicity	Not Available
COD and BOD 5	COD (mgO2/g) 65 (calculated data) TOC (mg C/g) 22 (calculated data)
Products of Biodegradation:	No Information available
Mobility in soil	No Information available
Results of PBT and vPvB assessment	Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB .
Other adverse effects	Discharge into the environment must be avoided.

13. Disposal considerations

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Waste treatment Method	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original mixing with other waste. Handle uncleaned containers like the product itself
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14. Transport information

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DOT

UN Number	UN 3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, [NITRILOTRIS(METHYLENE)]TRIS, SODIUM SALT
Hazard Class	8
Packing group	III

TDG

UN Number	UN 3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, [NITRILOTRIS(METHYLENE)]TRIS, SODIUM SALT
Hazard Class	8
Packing group	III

IATA

UN Number	UN 3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, [NITRILOTRIS(METHYLENE)]TRIS, SODIUM SALT
Hazard Class	8
Packing group	III

IMDG/IMO

UN Number	UN 3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, [NITRILOTRIS(METHYLENE)]TRIS, SODIUM SALT
Hazard Class	8
Packing group	III

15. Regulatory information

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Federal and State Regulation	This product is a "Hazardous Chemical" as defined by the 29 CFR 1910.1200.
Other Regulation	Not Regulated
WHMIS (Canada)	Not Regulated

DSCL (EEC)

R36- Irritating to eyes. S2- Keep out of the reach of children. S36- Wear protective clothing. S46- If swallowed, seek medical advice immediately.

HMIS

Health Hazard	: 1
Fire Hazard	: 0
Reactivity	: 0
Personal Protection	: H

Fire :

Health Hazard	: 1
Fire Hazard	: 0
Reactivity	: 0
Specific Hazard	: H

16. Other information

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Other Information

The information above is believed to be accurate and reliable. However, we make no warranty of accuracy or reliability, implied, with respect to such information, and we should make their own investigations to determine the accuracy of the information for particular purposes. In no event shall we be liable for any damages, including but not limited to, for lost profits or any special, indirect, incidental, or consequential damages, arising, even if **RX Marine International** has been advised of the possibility of such damages.

DISCLAIMER OF LIABILITY :The information in this MSDS is believed to be accurate and reliable. However, the information is provided "as is" without any warranty regarding its correctness. The conditions or methods of use of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for any damages, including but not limited to, in any way connected with the handling, storage, use or misuse of the product, and is to be used only for this product. If the product is used for any other purpose, the MSDS information may not be applicable.

Skin exposure

If this product contaminates the skin, immediately remove the contaminated clothing, taking care not to spread the product. Seek medical attention if any adverse exposure symptoms occur.

Eye exposure

If this product enters the eyes, open victim's eyes immediately with water. Force to open eyelids. Have victim "roll" eyes. Minimize contact with eyes. Seek medical attention.

Inhalation:

If vapors, mists, or sprays of this product are inhaled, remove the victim to fresh air. Administer artificial respiration to support vital functions. Remove clothing. Seek medical attention to rescuers.

Ingestion:

If this product is swallowed, CALL PHYSICIAN IMMEDIATELY FOR CURRENT INFORMATION. DO NOT INDUCE VOMITING. If conscious. Never induce vomit.

