Material Safety Data Sheet

RXSOL ORG16 Condenser Water Scale Corrosion Inhibitor (RXSOL-40-4042-245)

1. Product and Company Identifaction

Product Name	RXSOL ORG - 16 (Condenser Water Scale & Corrosion Inhibitor)
Product Type	RXSOL-40-4007-260

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Name	CAS#	% by Weight
Organo phosphonic acid	419-19-8	15-20
Zinc chloride	7646-85-7	5-10
Hydroxyethylidene diphosphonic acid (HEDP)	2809-21-4	1 – 5
Sodium molybdate	7631-95-0	1

3. Hazards Identification

Emergency	May cause irritation to eyes and skin. May cause irritation to mucous membranes and respiratory tract. Wear safety glasses and gloves when handling. Wash thoroughly after handling.
Eyes	Exposure to liquid product may cause moderate to severe irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
Skin	Exposure to liquid product may be slightly irritating to skin. Symptoms of exposure may include redness, swelling or pain.
Inhalation	Inhalation of vapors or fumes may be irritating to mucous membranes and respiratory tract.
Ingestion	Exposure to liquid product is not expected to result in significant adverse effects.
Chronic	Effects of chronic exposure are not expected to differ from the above-mentioned contact.

4. First Aid Measures

Eye Contact	If this product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Seek medical attention if irritation persists.
Skin Contact	If this product contacts the skin, immediately flush the affected area with soap and water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists.

Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
Ingestion	If this product is ingested, drink small amounts of water and seek medical attention promptly. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Notes to Physician	Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire-fighting Measures

flash point	None – aqueous solution.
flammable limits	NA
autoignition temperature	NA
extinguishing media	Use water, foam, dry chemical or carbon dioxide to extinguish fire.
fire/explosion hazard	Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.
fire fighting equipment	Fire fighters should wear full protective equipment, and have selfcontained breathing apparatus available.
special procedures	Use water to cool containers exposed to a fire.
hazardous combustion products	Oxides of carbon, possibly toxic phosphines.

6. Accidental Release Measures

personal precautions	Use proper personal protection (refer to Section 8).
environmental precautions	Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.
clean-up methods	Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate.Dike spill area and soak up material with sand or other absorbent. Place into chemical waste container for disposal according to local, state or federal regulations. Neutralize residue with lime or soda ash and flush spill area with water.

7. Handling and Storage

Handing	Use proper personal protection when handling (refer to Section 8). Use under wellventilated conditions. Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.
self life	The recommended shelf life is two (2) years. It is recommended that products be retested if stored for more than two (2) years. Under ideal storage conditions, the shelf life is almost indefinite
storege	The recommended storage temperature is above 32oF, preferably at room temperature (70oF).
genral	Store closed containers in a cool, dry, well-ventilated area away from incompatible materials. This product is stable under normal conditions of handling and storage. Avoid cold temperatures.

8. Exposure controls and personal protection

eye protection	To avoid contact with eyes, use safety glasses or chemical splash goggles. Face shield is recommended. Eye wash station should be available in the work area.
hand protection	Use rubber or plastic gloves to minimize skin contact.
body protection	A rubber apron and boots are recommended to minimize contact. Full drench shower should be available in the work area.
respirator	Use of respirator protection is not generally required. However, if exposure is above the stated limits or ventilation is inadequate, use a NIOSH approved acid gas/organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough exposure does not occur.
ventilation	General mechanical ventilation is recommended for enclosed areas.

9. Physical and chemical properties

Appearance	Clear, Slight yellow liquid
Odor	Slight medicinal
Specific Gravity @ 68oF	1.20 - 1.22
pH	2.14
Water Solubility	Complete
Boiling Point	> 100oC / 212oF
Freezing Point	0oC / 32oF
Vapor Pressure	ND
Vapor Density (air = 1)	ND

VOC Content	2%

10. Stability and reactivity

general stability	This product is stable at ambient temperatures and atmospheric pressures.
incompatible materials	Strong alkali and oxidizing materials.
hazardous polymerization	Hazardous polymerization is not expected to occur under normal temperatures and pressure
hazardous decomposition products	Oxides of carbon, possibly toxic phosphines.

11. Toxicological information

emergency overview:	CAUTION: May cause irritation to eyes and skin. May cause irritation to mucous membranes and respiratory tract. Wear safety glasses and gloves when handling. Wash thoroughly after handling.
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chronic	Effects of chronic exposure are not expected to differ from the above-mentioned contact.

12. Ecological information

NA

13. Disposal considerations

Do NOT dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied. Dispose in accordance with all applicable federal, state and local laws and regulations.

14. Transport information

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

US DOT
Proper Shipping Name: Not DOT regulated
Hazard Class: NA
Hazard Identification Number: NA
Packing Group: NA
Transport Label: Scale Preventing/Scale Removing Liquid or Paste

15. Regulatory information

NA

16. 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 rxmarine.com 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.