Material Safety Data Sheet

Cooling Water Corrosion and Deposit Inhibitor (RXSOL-43-4065-025)

1. Product and Company Identifaction

Product Name	Cooling Water Corrosion and Deposit Inhibitor
Part Number	RXSOL-43-4065-025

Company Details:

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

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2. Composition / informationon ingredients

Chemical Name	CAS No	Weight
Phosphoric acid	7664-38-2	40 - 60%
Proprietory Inhibitor	---	Balance

3. Hazards Identification

Signal Word	Danger.
Hazard Statements	H226 Flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H401 Toxic to aquatic life.
Precautionary statements response	ClassificationCorrosive to metals : Category 1Skin corrosion : Category 1BSerious eye damage : Category 1GHS Label elementHazard pictograms :Signal Word : Danger Hazard Statements : May be corrosive to metals.Causes severe skin burns and eye damage.Precautionary Statements :

4. First Aid Measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	No data available.
Special hazards arising from the substance or mixture	No data available.
Further information	Use water spray to cool unopened containers
Hazardous combustion products	No data available.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Specific Hazards Arising from the Chemical	No data available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Spillage	No data availa
Personal Protection	No data available
Enviromental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Advice on safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measure to prevent the buildup of electrostatic charge.
Advice on protection against fire and explosion	No data available
Incompatible materials	No data available
Hygiene measures	No data available
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage conditions	Recommended storage temperature 2 – 8 ^{o}C
Storage class	Storage class (TRGS 510): Flammable liquids
Specific end use(s)	Laboratory chemicals, Manufacture of substances

8. Exposure controls and personal protection

Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Exposure control	Personal Protective Equipment.
Eye/face protection	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Body Protection	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Respiratory protection	Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Other Protection Measure	No data available
Control of environmental exposure	Prevent further leakage of spillage if safe to do so. Do not let product enter drains.
Thermal hazards	No data available

9. Physical and chemical properties

Physical state	Liquid
Colour	Clear colorless
Odour	Acidic
Odor Threshold	Not Applicable
pH	0 - 1
Melting Point	-17 °C
Boiling Point	103°C
Flash Point	No Data Available
Evaporation Rate	Not Applicable
Flammability (solid, gas)	No data available
Explosive limits	No Data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No Data Available
Decomposition temperature	No data available
Vapour pressure	No data available
Density	No Data Available
Vapour Density	No Data Available
Freezing point	No data available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	Soluble
Relative density	1.58
Ignition temperature	No information available.
Particle characteristics	No data available
Viscosity	21 mPa.s

10. Stability and reactivity

Reactivity	No data available
Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong bases
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions- Carbon oxides Other decomposition products- no data available

11. Toxicological information

Acute toxicity	LD50 Oral- Rat- 3,275 mg/kg LC50 Inhalation –Rat- 4 h – 16.891 mg/l LD50 Dermal- Rabbit- >4,400 mg/kg
Skin corrosion/irritation	Skin- Rabbit Result: Skin irritation
Respiratory or skin sensitization	No data available
Serious eye damage/eye irritation	No data available
Germ cell mutagenicity	No data available
Specific target organ toxicity - single exposure	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Specific Target Organ Toxicity – Repeated Exposure	No data available
Aspiration Hazard	May be fatal if swallowed and enters the airways.

12. Ecological information

Persistence and degradability	No data available
Bioaccumulative potential	Lepomis macrochirus (Bluegill sunfish) 30 d – 0.25 mg/l Bioconcentration factor (BCF): 96
Toxicity to fish	Static test LC50- Pimephales promelas (Fathead minnow) – 5.2 mg/l – 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50- Daphnia magna (Water flea) – 1.3 mg/l – 48 h (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition EC50- Selenastrum capricornutum(green algae)–2.6mg/l -72 h (OECD Test Guideline 201)
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life

13. Disposal considerations

Product	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional and national hazardous waste regulations to ensure complete and accurate classification.
Contaminated packaging	Dispose of as unused product.

14. Transport information

UN number	2618
UN proper shipping name	Vinyltoluenes, stabilized
Transport hazard class(es)	3
Packaging group	III
Environmental hazards	No
Special precautions for user	No data available
Further information	No data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations	No data available
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out.

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.