

Product Name: Corrosion Inhibitor Silicate Based**Part No / SKU:** RXSOL-44-1047-027**Date of Issue:** October 13, 2026**Document Type:** Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Corrosion Inhibitor Silicate Based
Part Number	RXSOL-44-1047-027

Company Details:

RX MARINE INTERNATIONAL
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Proprietary blend of silicates and film forming corrosion inhibitor for multi metal systems.

3. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation	Category 2
Eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ toxicity - single exposure (Oral)	Category 1 (Blood)

GHS Label element

Signal Word	Danger
Hazard Statements	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Causes damage to organs (Blood) if swallowed.
Precautionary Statements	Prevention: Do not breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ eye protection/ face protection. Response: IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or doctor/ physician. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.
Other hazards	None known.

4. FIRST AID MEASURES

In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
If swallowed	Rinse mouth. Get medical attention if symptoms occur.
If inhaled	Get medical attention if symptoms occur.
Protection of first-aiders	In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Notes to physician	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	See Section 11 for more detailed information on health effects and symptoms.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known.
Specific hazards during firefighting	Not flammable or combustible.
Hazardous combustion products	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx)
Special protective equipment for firefighters	Use personal protective equipment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	Do not allow contact with soil, surface or ground water.
Methods and material for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

7. HANDLING AND STORAGE

Advice on safe handling	Avoid contact with skin and eyes. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
Conditions for safe storage	Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
Suitable material	Keep in properly labelled containers.
Unsuitable material	The following compatibility data is suggested based on similar product data and/or industry experience: Shipping and long term storage compatibility with construction materials can vary; we therefore recommend that compatibility is tested prior to use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Eye protection	Safety glasses with side-shields
Hand protection	Wear protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	Wear suitable protective clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Clear Colorless
Odor	Odourless
Flash point	Method: Pensky-Martens closed cup, does not flash
pH	11.1 - 11.8,(100 %), Method: ASTM E 70
Odour Threshold	No data available
Melting point/freezing point	Freezing Point: -29 °C
Initial boiling point and boiling range	100 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	Similar to water
Relative vapour density	No data available
Density	1.15-1.25
Water solubility	Completely soluble
Solubility in other solvents	No data available
Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available
Thermal decomposition	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Molecular weight	No data available
VOC	0 %, 0 g/l, EPA Method 24

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	None known.
Incompatible materials	Contact with reducing agents (e.g. hydrazine, sulfites, sulfide, aluminum or magnesium dust) may generate heat, fires, explosions and toxic vapors. Do not mix with amines. Sodium nitrite can react with certain amines to produce N-nitrosamines, many of which are cancer-causing agents to laboratory animals. Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors.
Hazardous decomposition products	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes	Causes serious eye irritation.
Skin	Causes skin irritation. May cause allergic skin reaction.
Ingestion	Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use
Chronic Exposure	May cause damage to organs.

Experience with human exposure

Eye contact	Redness, Pain, Irritation
Skin contact	Redness, Irritation, Allergic reactions
Ingestion	No symptoms known or expected.
Inhalation	No symptoms known or expected.

Toxicity

Product

Acute oral toxicity	LD50 rat: > 2,000 mg/kg Test substance: Product
Acute inhalation toxicity	No data available
Acute dermal toxicity	Acute toxicity estimate: > 5,000 mg/kg
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Carcinogenicity	No data available
Reproductive effects	No data available
Germ cell mutagenicity	No data available
Teratogenicity	No data available
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration toxicity	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects	Harmful to aquatic life.
Product	
Toxicity to fish	LC50 Turbot: > 2,000 mg/l Exposure time: 96 hrs Test substance: Product LC50 Oncorhynchus mykiss (rainbow trout): 57 mg/l Exposure time: 96 hrs Test substance: Product NOEC Turbot: 2,000 mg/l Exposure time: 96 hrs Test substance: Product NOEC Oncorhynchus mykiss (rainbow trout): 40 mg/l Exposure time: 96 hrs Test substance: Product
Toxicity to daphnia and other aquatic invertebrates	LC50 Daphnia magna (Water flea): 670 mg/l Exposure time: 48 hrs Test substance: Product NOEC Daphnia magna (Water flea): 400 mg/l Exposure time: 48 hrs Test substance: Product
Persistence and degradability	The organic portion of this preparation is expected to be readily biodegradable. Total Organic Carbon (TOC) : 37,000 mg/l Chemical Oxygen Demand (COD): 23,300 mg/l
Mobility	The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages; Air : 5% Water : 30 - 50% Soil : 50 - 70% The portion in water is expected to be soluble or dispersible.
Bioaccumulative potential	This preparation or material is not expected to bioaccumulate.
Other information	No data available

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Proper shipping name	PRODUCT IS NOT REGULATED DURING TRANSPORTATION
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Not classified as dangerous.

15. REGULATORY INFORMATION

No information available.

16. OTHER INFORMATION AND DISCLAIMER

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 we 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.
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