

1. Product and Company Identification

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Part Number **RXSOL-81-8171-230**
Product Name **Water Injection Corrosion Inhibitor (WICI)**

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC.

Hazardous Substance(s)	EINECS / ELINCS NO	SYMBOL	R-PHRASES / NOTAS	% (w/w)
Thioglycolic Acid	200-677-4	T	R23/24/25, R34	1 - 5
Imidazoline Salts	Proprietary	Xi	R38, R41,R52/53	5 - 10
Quaternary Ammonium compound	Proprietary	C, N	R22, R34, R50	1 - 5

Refer to Section 16 for descriptions of relevant risk phrases and Notas.

3. Hazards Identification

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HAZARD CLASSIFICATION :

This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC.
Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin

HUMAN HEALTH HAZARDS - ACUTE : INHALATION :

Toxic by inhalation. Repeated or prolonged exposure may irritate the respiratory tract.

SKIN CONTACT :

Toxic in contact with skin. Can cause moderate irritation

EYE CONTACT

Irritating, and will injure eye tissue if not removed promptly

INGESTION :

Not a likely route of exposure. Toxic if swallowed

PHYSICAL AND CHEMICAL HAZARDS

Combustible

4. First Aid Measures

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INHALATION :

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice

SKIN CONTACT

Immediately flush with plenty of water for at least 15 minutes. If symptoms develop, seek medical advice.

EYE CONTACT

Immediately flush eye with water for at least 15 minutes while holding eyelids open. If symptoms develop, seek medical advice

INGESTION

Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If reflexive vomiting occurs, rinse mouth

NOTE TO PHYSICIAN

and repeat administration of water.

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition

5. Fire-fighting Measures

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FLASH POINT :

83 °C PMCC

EXTINGUISHING MEDIA

Foam, Carbon dioxide, Dry powder, Other extinguishing agent suitable for Class B fires. For large fires, use water spray or fog, thoroughly drenching the burning material. Water mist may be used to cool closed containers

FIRE AND EXPLOSION HAZARD

Combustible Liquid; may form combustible mixtures at or above the flash point. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or other sources of ignition. May evolve oxides of carbon (CO_x) under fire conditions. May evolve oxides of nitrogen (NO_x) and sulfur (SO_x) under fire conditions. May evolve ammonia under fire conditions .

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit

6. Accidental Release Measures

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PERSONAL PRECAUTIONS

Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Remove sources of ignition. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental Authorities

METHODS FOR CLEANING UP

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13(Disposal Considerations)..

ENVIRONMENTAL PRECAUTIONS

Do not contaminate surface water

7. Handling and Storage

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HANDLING

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labelled. Do not use, store, spill or pour near heat, sparks or open flame

STORAGE CONDITIONS

Store in suitable labelled containers. Store the containers tightly closed. Store away from heat and sources of ignition. Have appropriate fire extinguishers available in and near the storage area. Connections must be grounded to avoid electrical charges

SUITABLE CONSTRUCTION MATERIAL

HDPE (high density polyethylene), Stainless Steel 304, Stainless Steel 316L, MDPE (medium density polyethylene), Nitrile, PTFE, Perfluoroelastomer, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use

UNSUITABLE CONSTRUCTION MATERIAL

Viton, Neoprene, Carbon Steel C1018

8. Exposure controls and personal protection

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MONITORING MEASURES

A small volume of air is drawn through an absorbant or barrier to trap the substance(s) which can then be desorbed or removed and analyzed as referenced below

Substance(s)	Method	Analysis	Absorbant
Thioglycolic Acid	US OSHA: CIM	High pressure chromatography	liquid Impinger containing De-ionised water

ENGINEERING MEASURES

General ventilation is recommended. The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces

PERSONAL PROTECTION

GENERAL ADVICE

The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum precaution that safety glasses with side-shields and workclothes protecting arms, legs and body be used. In addition any person visiting an area where this product is handled should at least wear safety glasses with side-shields.

RESPIRATORY PROTECTION

Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled.

HAND PROTECTION

When handling this product, the use of chemical use PVC Gloves should be replaced immediately if signs of degradation are observed. Breakthrough time not determined as preparation, consult PPE manufacturers.

SKIN PROTECTION

When handling this product, the use of overalls, a chemical resistant apron and rubber boots is recommended. A full slicker suit is recommended if gross exposure is possible.

EYE PROTECTION

Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS

Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke

9. Physical and chemical properties

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PHYSICAL STATE	Liquid
APPEARANCE	Clear Amber
ODOR	Pungent
FLASH POINT	83 °C PMCC
SPECIFIC GRAVITY	1.008 (15 °C)
SOLUBILITY IN WATER	Complete
pH (100 %)	5.3 - 5.5
MELTING POINT	ASTM D-97 1.51 °C

Note: These physical properties are typical values for this product and are subject to change

10. Stability and reactivity

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STABILITY	Stable under normal conditions
HAZARDOUS Polymerization will not occur	
POLYMERIZATION	
CONDITIONS TO AVOID	Heat and sources of ignition including static discharges
MATERIALS TO AVOID	Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors., Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors., Avoid contact with SO ₂ or acidic bisulfite products, which may react to form visible airborne amine salt particles., Certain amines in contact with nitrous acid, organic or inorganic nitrites or atmospheres with high nitrous oxide concentrations may produce N-nitrosamines, many of which are cancer-causing agents to laboratory animals
HAZARDOUS DECOMPOSITION PRODUCTS	
Under fire conditions	Oxides of carbon, Oxides of nitrogen, Oxides of sulfur, ammonia

11. Toxicological information

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No toxicity studies have been conducted on this product

SENSITIZATION
CARCINOGENICITY

This product is not expected to be a sensitizer
None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

For additional information on the hazard of the preparation, please consult section 3 and 12

12. Ecological information

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ECOTOXICOLOGICAL EFFECTS

MOBILITY