Material Safety Data Sheet

Corrosion Inhibitor for Oil and Gas Processing (RXSOL-34-1047-210)

1. Product and Company Identifaction

Part Number	RXSOL-34-1047-210
Product Name	Corrosion Inhibitor for Oil and Gas Processing

Company Details:

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

Stock Points: Mumbai, Kandla, Vishakhapatnam, Kolkata, Chennai, Fujairah, Muscat OMAN, Kenya Africa, Canada

Phone	+91 22 65113333 / 5555 / 9999 / 27611360
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

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

Hazardous Substance(s)	CAS NO	% (w/w)
Ethylene Glycol	107-21-1	10-30
Mono ethanol amine	141-43-5	=1
Quaternary Ammonium compound	Proprietary	1 - 5
Proprietory Blend of Corrosion Inhibitors	Proprietory	-

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

3. Hazards Identification

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

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 and repeat administration of water.
NOTE TO PHYSICIAN	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

4.1. Description of first aid measures
General information
Remove/Take off immediately all contaminated clothing.
After inhalation
If inhaled, remove immediately to fresh air; if not breathing give artificial respiration; obtain medical help.
If breathing is difficult, give oxygen.
Call in a physician immediately and show him the Safety Data Sheet.
After contact with skin
Wash off immediately with plenty of water for at least 15 minutes.
Get medical attention immediately.
After contact with eyes
Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
After ingestion
Rinse mouth with water.
Do NOT induce vomiting.
In case of unconsciousness do not induce vomiting or give anything by mouth.
Call in a physician immediately and show him the Safety Data Sheet.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms:

- Headache
- Dizziness
- Nausea
- Unconsciousness
- Central nervous system depression
- Abdominal pain

Hazards
Possible risk of irreversible effects.
4.3. Indication of any immediate medical attention and special treatment needed
Treatment:
Treat symptomatically.

6. Accidental Release Measures

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

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

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 liquid chromatography	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

Physical state : liquid
Form : Liquid
Colour : brown
pH value : 10-12 (25 °C)
Melting point : not determined
Boiling point : not determined
Flash point : not tested.
Evaporation rate : not tested.
Lower explosion limit : Not applicable
Upper explosive limit : Not applicable
Combustion number : Not applicable
Vapour pressure : not tested.
Solubility in water : not tested.
Note: These physical properties are typical values for this product and are subject to change

10. Stability and reactivity

STABILITY	Stable under normal conditions.
HAZARDOUS POLYMERIZATION	Hazardous polymerization will not occur
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 SO2 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

No toxicity studies have been conducted on this product

SENSITIZATION	This product is not expected to be a sensitizer
CARCINOGENICITY	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

ECOTOXICOLOGICAL EFFECTS

MOBILITY	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/Sediment- 50 - 70%) The portion in water is expected to be soluble or dispersible
PERSISTENCY AND DEGRADATION	The organic portion of this preparation is expected to be readily biodegradable
BIOACCUMULATION POTENTIAL	Component substances have a low potential to bioconcentrate

13. Disposal considerations

Use authorized contractors and ensure compliance with EC, national and local regulations.

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage. This product is ashless and can be burned directly in appropriate equipment. This product is NOT suitable for disposal via municipal sewers, drains, natural streams or rivers.

Empty drums should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

EUROPE WASTE CODE	16 03 05*- OFF SPECIFICATION BATCHES AND UNUSED PRODUCTS - Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code.

14. Transport information

Not classified as hazardous . Can easly transport by Land, Air and sea. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT

Proper Shipping Name	PRODUCT IS NOT REGULATED DURING TRANSPORTATION.

AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name	PRODUCT IS NOT REGULATED DURING TRANSPORTATION

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name	PRODUCT IS NOT REGULATED DURING TRANSPORTATION

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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The product contains the following substance/impurity, which, according to annex XIV and XV of the REACH Regulation 1907/2006/EC, is an SVHC:

4-Nonylphenol, branched, ethoxylated

15.2. Chemical safety assessment

Chemical Safety Assessments (CSAs) are available for one or more of the component substances contained in this product.

16. Other information

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.The data given here only applies when product used for proper application(s). The productis not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.