Material Safety Data Sheet

Corrosion Inhibitor for External (RXSOL-81-8152-210)

1. Product and Company Identifaction

Product Name	RXSOL-81-8152-210
Product Type	External Corrosion Inhibitor

Company Details:

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

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

2. Composition / informationon ingredients

Components classified as hazardous:

Component	CAS-No	**Weight % - Range**
Distillates petroleum Light Hydrocracked	64741-77-1	60-100
Sulfonic Acid Salt	Proprietary	1- 10

3. Hazards Identification

EMERGENCY OVERVIEW

CAUTION

Main physical hazards:	No classified physical hazards.
Main health hazards:	Moderately irritating to the skin. May be mildly irritating to eyes. See also MSDS Section 11.
Main environmental hazards:	Produces sheen on water surfaces.
Other hazards:	Contaminated surfaces will be extremely slippery.
Precautions:	Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed. Avoid contact with the skin and the eyes. Do not breathe vapors or spray mist. Wear suitable protective equipment.
HMIS classification:	Health: 2 Flammability: 1 Physical hazard: 0 PPE: C

Form: Liquid
Color: Clear Brown
Odor: Aromatic /Hydrocarbons

Principle routes of exposure:
Skin contact. Eye contact. Respiratory system.

4. First Aid Measures

Eye contact:	Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.
Skin contact:	After contact with skin, wash immediately with plenty of soap and water for at least 15 minutes. Seek medical attention if irritation occurs.
Ingestion:	Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.
Inhalation:	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. Call a physician immediately.

5. Fire-fighting Measures

Fire hazard:	Combustible material.
Flash point:	127 °C / 261 °F
Method:	Pensky-Martens CC
Autoignition temperature:	No data available
Flammability limits in air:	
Lower:	1%
Upper:	2%
Oxidizing properties:	None.

Suitable extinguishing media:
Alcohol Foam, CO2, Dry Chemical.

Extinguishing media which must not be used for safety reasons:
Do not use water unless flooding amounts are available.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:
Thermal decomposition can lead to release of irritating gases and vapors.

Other information:
Solutions extremely slippery when spilled.

Special protective equipment for firefighters:
Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas.

NFPA rating:
Health: 2
Flammability: 1
Instability: 0
Special: None

6. Accidental Release Measures

Main physical hazards:	No classified physical hazards
Other hazards:	Contaminated surfaces will be extremely slippery.
Personal precautions:	Do not get on skin or clothing. Wash thoroughly after handling. Wear suitable protective equipment
Methods for cleaning up:	Dam up. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.
Environmental precautions:	Keep out of waterways. Prevent entry into sewage.

7. Handling and Storage

Handling:

Precautions:	Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed. Avoid contact with the skin and the eyes. Do not breathe vapors or spray mist. Wear suitable protective equipment.
Safe handling advice:	Wear suitable protective equipment. Ensure adequate ventilation.
Technical measures/	Keep away from direct sunlight.

storage conditions:

Packaging requirements:	Steel or high density polyethylene (HDPE) container.
Incompatible products:	Oxidizing agents.

8. Exposure controls and personal protection

Engineering measures to reduce exposure:	Ensure adequate ventilation
Hygiene measures:	Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.
Respiratory protection:	None normally needed. Use NIOSH approved respirator with organic vapor protection (color coded black or yellow) if vapors are generated and for emergencies.
Eye protection:	Tightly fitting safety goggles.
Hand protection:	Impervious gloves. Neoprene.
Skin and body protection:	Solvent-resistant apron.

Occupational Exposure Limits

ACGIH - TLVs	OSHA - PELs

Nuisance dust:
ACGIH: inhalable particulate TLV-TWA=10 mg/m3; respirable particulate TLV-TWA= 3 mg/m3

9. Physical and chemical properties

Chemical characterization:	Organic surfactant Blend.
Fire hazard:	Combustible material
Form:	Liquid
Color:	Clear Brown
Odor:	Aromatic / Hydrocarbons
Odor threshold:	No information available.
pH:	7.5
pH concentration:	10 g/l
Boiling point/range:	> 260 °C / 500 °F
Flash point:	127 °C / 261 °F
Method:	Pensky-Martens CC.
Flammability limits in air:	
Lower:	1%
Upper:	2%

Bulk density:	Not applicable
Melting point/range:	-29 °C / -20 °F
Decomposition temperature:	No data available
Solubility:	
Water solubility:	Insoluble.
Fat solubility:	Soluble.
Partition coefficient(n-octanol/water):	See also SECTION 12
Relative density:	0.9 (@ 16°C)
Vapor pressure:	1 Pa (@ 20°C)
Vapor density:	No data available
Viscosity:	10 mPa.s (@ 24 °C)
Evaporation rate:	No data available.
% Volatile:	> 80

10. Stability and reactivity

Stability:	Stable at normal conditions
Conditions to avoid:	Keep away from heat and sources of ignition
Incompatibility with other substances:	Oxidizers. Strong bases.
Hazardous decomposition products:	When heated strongly or burned, oxides of carbon, sulfur oxides and harmful organic chemical fumes are released.
Hazardous polymerization:	Hazardous polymerization does not occur.
Other hazards:	Contaminated surfaces will be extremely slippery

11. Toxicological information

PRODUCT TOXICOLOGICAL INFORMATION : Information given is based on data obtained from similar substances

Acute Health Hazard

Eye contact:	May be mildly irritating.
Skin contact:	Moderately irritating to the skin. Prolonged skin contact may defat the skin and produce dermatitis
Ingestion:	Swallowing large amounts may be harmful. Ingestion of large amounts may cause nausea, vomiting, diarrhea.
Inhalation:	May be harmful by inhalation (after often repeated exposure).

Sensitization - lung:	Not known to cause allergic reaction.
Sensitization - skin:	Not known to cause allergic reaction.
Toxicologically synergistic products:	Not known

Chronic Health Hazard

Carcinogenic effects:	Not known to cause cancer in humans. See COMPONENT TOXICOLOGICAL INFORMATION below.
Mutagenic effects:	Not known to cause heritable genetic damage.
Teratogenic effects:	Not known to cause birth defects or have a deleterious effect on a developing fetus.
Reproductive toxicity:	Not known to adversely affect reproductive functions and organs.
Target organ effects:	No information available

COMPONENT TOXICOLOGICAL INFORMATION

Component	OTHER TOXICOLOGICAL INFORMATION
Distillates (petroleum), light hydrocracked	According to EU Dangerous Substance Directive, Annex I classifies the substance as a Carcinogen Category 3 (some evidence of carcinogenicity from appropriate animal studies).
Sulfonic acid salt	Based on hazard classification of similar compounds: Moderate skin irritation.

12. Ecological information

PRODUCT INFORMATION
Main environmental hazards: Produces sheen on water surfaces.

COMPONENT INFORMATION

Distillates (petroleum), light hydrocracked

Bioaccumulation:	May bioaccumulate
Persistence / degradability:	Inherently biodegradable

Sulfonic acid salt

Bioaccumulation:	May bioaccumulate
Persistence / degradability:	Not biodegradable

13. Disposal considerations

Waste from residues / unused products:	Dispose of by injection or other acceptable method in accordance with local regulations
Contaminated packaging:	Dispose of in accordance with local regulations. If reusable containers are used, send them back to the product supplier, after the required rinsing

14. Transport information

DOT:
CERCLA RQ: None
Hazard class:Not regulated
Proper shipping name: Not regulated
Label(s): None required.IMDG/IMO
Shipping name: Not regulated.
UN number: None

ICAO/IATA
Shipping name: Not regulated.
UN number: None

TDG (Canada):
Shipping name: Not regulated.
PIN: None

Note 1:
For the applicable placard selection refer to the appropriate transport regulations; the selection may vary depending on the cargo size and categories of other hazardous materials in the cargo.

15. Regulatory information

International Inventories

Inventory - United States TSCA -	This product complies with TSCA requirements
Canada DSL Inventory List -	Some components of this material are not on the Canada DSL or exempt. Any import of the product to Canada is restricted or requires an appropriate notification.
EC-No	Some components of this material are not on the EINECS inventory, and notification has not been made for ELINCS. This material can not be used commercially in the European Community.
Inventory - Japan - Existing and New Chemicals list -	This product does not comply with JPENCS
China inventory of existing chemical substances list -	This product does not comply with China inventory requirements.
chemical substances list - Australia (AICS):	This product does not comply with AICS
WHMIS Hazard Class:	D2B (Other Toxic Effects - Toxic Material)

16. Other information

Current references:
1. Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices. American Conference of Governmental Industrial Hygienists, Cincinnati OH.
2. IARC Monograms on the Evaluation of the Carcinogenic Risk of Chemicals to Man. World Health Organization, International Agency for Research on Cancer. Geneva, Switzerland.
3. Annual Report on Carcinogens. National Toxicology Program. U.S. Department of Heath and Human Services, Public Health Service.
4. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS). National Institute for Occupational safety and Health. Cincinnati, OH.
5. LOLI Database.

Explanation of terms:
ACGIH: American Conference of Governmental Industrial Hygienist
ACGIH-TL: Threshold Limit Value
DSL: Domestic Substance List
HMIRC: Hazardous Materials Information Review Commission
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
NIOSH: National Institute of Occupational Safety & Health
NIOSH-REL: Recommended Exposure Limit
OSHA: Occupational Safety & Health Administration
OSHA-PEL: Permissible Exposure Limit
TSCA: Toxic Substance Control Act (Inventory)

Occupational Exposure Limits indicators: TWA - Time Weighted Average; STEL - Short Term Limit; C - Ceiling Limit;units: [mg/m3]

ACGIH Notations:
"Skin" refers to the potential significant contribution to the overall exposure by the cutaneous route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance. "A" notation indicates carcinogenicity as follows:
ACGIH classification: A1 - Confirmed Human Carcinogen; A2 - Suspected Human Carcinogen; A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; A4 - Not Classifiable as a Human Carcinogen; A5 - Not suspected as a Human Carcinogen.
"SEN" refers to the potential for an agent to product sensitization as confirmed by human and animal data.

Section(s) revised: MSDS fully updated in the new database. Additional advice: Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

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