Material Safety Data Sheet

Corrosion Inhibitor RX 1642 Refinery Crude Unit Overhead (RXSOL-81-8100-210)

1. Product and Company Identifaction

Product Name	Corrosion Inhibitor RX 1642 (Refinery Crude Unit Overhead)
Part Number	RXSOL-81-8100-210

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA
Stock Point : Mumbai, Kandla, Kolkata, Vizag, Chennai, Fujairah, Muscat

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Weight %
Fatty Tetrahydroprimidine	68911-863-1	272-789-1	10 - 25%
Napthalee	91-20-3	202-049-5	2- 25%
Hydrocarbons C10 aromatics >1%	64742-84-9	918-811-1	60 -80%
Napthalene	64742-94-5	919-284-0	10 -20%

3. Hazards Identification

Signal Word	Warning
Hazard Statements	H225 Flammable liquid and vapour. H302 Harmful if swallowed. H311 + H331 Toxic in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
Precautionary statements - prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.
Precautionary statements - response	Immediately call a POISON CENTER or doctor/physician

4. First Aid Measures

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse imme diately with plenty of water and seek medical advice.
Inhalation:	If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Move to fresh air. Immediate medical attention is required.
Ingestion:	Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects	Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated.
Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

Flammability of the Product	Flammable.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
Unsuitable extinguishing media	No information available
Flash Point	61°C / 142 °F
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the Chemical	Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel tosource of ignition and flash back.
Hazardous Combustion Products	Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx)
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.
Further Information	Remove container from danger zone and cool with water. Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

Small Spillage	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Personal Protection	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.
Enviromental Precaution	Environmental Precautions Should not be released into the environment. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof

7. Handling and Storage

Handling	Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area. Corrosives area.
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

8. Exposure controls and personal protection

Engineering Control	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment
Personal Protection	Eye/face Protection : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection : Wear appropriate protective gloves and clothing to prevent skin exposure. Long sleeved clothing.Flame retardant antistatic protective clothing. Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Exposure Limits	NAPHTHALENE : PEL (OSHA): 10 PPM.TLV (ACGIH): 10 PPM FATTY TETRAHYDROPYRIMIDINE : PEL (OSHA): NOT DETERMINED TLV (ACGIH): NOT DETERMINED HYDROCARBON C10 AROMATIC : PEL (OSHA): NOT DETERMINED.TLV (ACGIH): NOT DETERMINED



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Colour	Amber to Brown
Odour	Hydrocarbon
Odor Threshold	No Information Available
pH	11 - 11.5
Freezing Point	-30 °C
Boiling Point	177 °C
Flash Point	62°C
Evaporation Rate	1.00
Vapour pressure	(mmHG) 5.0
Vapour Density	(air=1) > 1.00
Secific Gravity	0.85 - 90
Solubility in Water	Not Soluble

10. Stability and reactivity

Recativity Hazard	None known, based on information available
Stability	Product is stable.
Possibility of hazardous reactions	No known hazardous reactions.
Conditions to avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	Strong oxidizing agents, Strong acids, Strong reducing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur. Hazardous Reactions None under normal processing

11. Toxicological information

Acute toxicity	LD50 Rat: 730 mg/kg OECD Test Guideline 401
Acute dermal toxicity	LD50 Rabbit: 580 mg/kg OECD Test Guideline 402
Skin corrosion	Skin irritation Causes severe burns.

Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of ingestion.
Special Remarks on Chronic Effects on Humans	Material is destructive to tissue of the mucous membranes and upper respiratory tract.
Further information After absorption:	Convulsions, strong pain (risk of perforation!), shock, Causes poorly healing wounds. Under given conditions, contact with nitrites or nitric acid can lead to the formation of nitrosamines, which have shown themselves to be carcinogenic in animal experiments. Other dangerous properties can not be excluded. This substance should be handled with particular care.

12. Ecological information

Toxicity to Fish	LC50 Oryzias latipes (Orange-red killifish): 24 mg/l; 96 h OECD Test Guideline 203
COD and BOD 5	Not Available
Products of Biodegradation:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Mobility in soil	Will likely be mobile in the environment due to its water solubility.
Results of PBT and vPvB assessment	Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.
Other adverse effects	Additional ecological information Forms corrosive mixtures with water even if diluted. Harmful effect due to pH shift. Discharge into the environment must be avoided.

13. Disposal considerations

Waste treatment Method	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself

14. Transport information

DOT

UN Number	UN3627
Proper shipping name	Flammable Liquid , Corrosive N.O.S
Hazard Class	3
Subsidiary Hazard Class	8
Packing group	III

TDG

UN Number	UN3627
Proper shipping name	Flammable Liquid , Corrosive N.O.S
Hazard Class	3
Subsidiary Hazard Class	8
Packing group	III

IATA

UN Number	UN3627
Proper shipping name	Flammable Liquid , Corrosive N.O.S
Hazard Class	3
Subsidiary Hazard Class	8
Packing group	III

IMDG/IMO

UN Number	UN3627
Proper shipping name	Flammable Liquid , Corrosive N.O.S
Hazard Class	3
Subsidiary Hazard Class	8

Packing group	III

15. Regulatory information

Fedral and State Regulation	All components of this product are included on or are in compliance with the U.S. TSCA regulations
Other Regulation	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
WHMIS (Canada)	CLASS B-2: Flammable liquid . CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).
DSCL (EEC)	R11- Highly flammable. R38- Irritating to skin. R41- Risk of serious damage to eyes.

HMIS

Health Hazard	: 3
Fire Hazard	: 3
Reactivity	: 0
Personal Protection	: H

Fire :

Health Hazard	: 3
Fire Hazard	: 3
Reactivity	: 0
Specific Hazard	: ..

16. Other information

Other Information

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