Material Safety Data Sheet

Corrosion Inhibitor CI 3023 (RXSOL-81-8165-211)

1. Product and Company Identifaction

Product Name	Corrosion Inhibitor CI 3023
Product Type	RXSOL-81-8165-211

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

Hazardous Component	CAS#	Percent
2-butoxyethanol	111-76-2	60-80
Methanol	000067-56-1	30-60
Thiourea polymer	068527-49-1	10-30
Tall oil acid	061790-12-3	10-30
Ethoxylated alcohols^ C14-15	068951-67-7	5-10
Propargyl alcohol	000107-19-7	5-10
Alkenes^ C>10 alpha-	064743-02-8	1-5

3. Hazards Identification

INHALATION:

Inhalation of solution vapor or mist may cause respiratory tract irritation. May cause headache, dizziness, nausea and incoordination. May cause visual disturbances.

INGESTION:

Ingestion may cause severe irritation or burns to the mouth, throat and esophagus. May cause nausea, dizziness or loss of coordination. May cause visual impairments, ocular damage and possibly blindness if not treated medically.

EYE CONTACT:
May cause severe eye irritation. May cause burns with prolonged contact.

SKIN CONTACT:

May cause skin irritation or burns with prolonged contact. May be absorbed through the skin and contribute to the symptoms listed under ingestion.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL	LC50 (inhalation)	LD50 (oral)
Methanol	200 ppm, skin	200 ppm TWA	64000 ppm/4 rat	5600 mg/kg rat
Thiourea polymer	NA	NA	NA	NA
Tall oil acid	NA	NA	NA	NA
Ethoxylated alcohols^ C14-15	NA	NA	NA	NA
Propargyl alcohol	1 ppm, skin	NA	873 ppm/2 rat	20 mg/kg rat
Alkenes^ C>10 alpha-	NA	NA	NA	NA

4. First Aid Measures

INHALATION:	If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Only trained personnel should administer oxygen. Get medical attention.
INGESTION:	Rinse mouth with water several times. DO NOT induce vomiting. If vomiting occurs naturally, keep head lower than hips to prevent aspiration. Obtain medical assistance immediately.
EYES:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.
SKIN:	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists.

5. Fire-fighting Measures

SPECIAL HAZARDS:

May form flammable vapour-air mixture. This product or a component there of can flow along surfaces to reach a distant ignition source and flash back.

EXTINGUISHING MEDIA:
Water fog, carbon dioxide, foam, dry chemical.

SPECIAL FIREFIGHTING PROCEDURES:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.
Cool exposed containers with water spray.

HAZARDOUS COMBUSTION PRODUCTS:
Oxides of carbon, nitrogen and sulphur.

6. Accidental Release Measures

Wear specified protective equipment. Remove sources of ignition. Small spills - Cover spill with absorbent material. Scoop absorbed material into a suitable container for disposal. Large spills - Dike to contain. Prevent from entering sewers or waterways. Recover product to suitable containers or vessel for reuse, if possible, or for disposal. Use only explosion proof transfer equipment.

7. Handling and Storage

HANDLING:

Wear specified protective equipment. Use only in a well ventilated area. Use only spark-proof and explosion-proof tools and equipment.

STORAGE REQUIREMENTS:

Keep in a cool, well ventilated place. Keep away from ignition sources. Keep away from heat. Keep away from incompatible materials. Emptied containers may retain hazardous properties.

8. Exposure controls and personal protection

SPECIFIC ENGINEERING CONTROLS:

Use only in a well ventilated area. Local exhaust. Adequate ventilation should be provided to keep concentrations below acceptable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. (Cartridge respirator) Chemical resistant goggles. Butyl rubber gloves. Coveralls. Rubber apron. Rubber boots.

9. Physical and chemical properties

PHYSICAL STATE:	Liquid

COLOR:	Amber
ODOR:	Sweet
ODOR THRESHOLD:	Not available/applicable
SPECIFIC GRAVITY:	0.95 @ 60 F
VAPOR PRESSURE:	85 mmHg @ 21°C (calculated)
VAPOR DENSITY (air = 1):	> 1
EVAPORATION RATE:	Not available/applicable
BOILING POINT:	Not available/applicable
FREEZING POINT:	-29°C
pH:	4-6 (5% sol.)
VISCOSITY (F):	Not available/applicable
SOLUBILITY IN WATER:	Dispersible

10. Stability and reactivity

STABILITY:	Stable under normal conditions of use.
INCOMPATIBILITY/CONDITIONS OF REACTIVITY:	Strong oxidizers.
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:	Oxides of carbon, nitrogen and sulphur.
HAZARDOUS POLYMERIZATION:	Will not occur.

11. Toxicological information

CHRONIC EFFECTS:
May cause central nervous system depression. Optic nerve damage.

SENSITIZATION:
Not known.

CARCINOGENICITY:

None of the components of this product have been listed as carcinogenic by IARC, NTP or OSHA. (IARCInternational Agency for Research on Cancer) (NTP - National Toxicology Program) (OSHA - Occupational Safety & Health Administration (US))

MUTAGENICITY:
Not known.

REPRODUCTIVE TOXICITY:
This product contains methanol (%) which has been reported to cause fetotoxicity and teratogenicity in rats and mice

12. Ecological information

No specific information available.

13. Disposal considerations

WASTE DISPOSAL:
Disposal should be made in accordance with national and local regulations. Consult local waste authorities prior to disposal.

14. Transport information

LAND TRANSPORT (DOT):

Proper Shipping Name:	FLAMMABLE LIQUID,N.O.S.
Technical Name(s):	Methanol, Propargyl alcohol
UN/ID No.:	UN 1993
Hazard Class - Primary:	3

Hazard Class - Secondary:	
Packing Group:	II
Reportable Quantity (RQ):	1410 gallons of this product
Emergency Response Guide #:	128

AIR TRANSPORT (ICAO/IATA):

Proper Shipping Name:	FLAMMABLE LIQUID,N.O.S.
Technical Name(s):	Methanol, Propargyl alcohol
UN/ID No.:	UN 1993
Hazard Class - Primary:	3
Hazard Class - Secondary:	
Packing Group:	II

MARINE TRANSPORT (IMDG/IMO):

Proper Shipping Name:	FLAMMABLE LIQUID,N.O.S.
Technical Name(s):	Methanol, Propargyl alcohol
UN No.:	UN 1993
Hazard Class - Primary:	3
Hazard Class - Secondary:	
Packing Group: II	II
EmS:	F-E, S-D

15. Regulatory information

SARA TITLE III:
SECTION 302/304 This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.
SECTION 311/312 Delayed, Fire, Immediate
SECTION 313 This product contains the following substance(s) which appear on the List of Toxic Chemicals:, Methanol CAS # 67-56-1, Propargyl alcohol CAS# 107-19-7

TSCA INVENTORY: The substances in this product are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710).
CALIFORNIA PROP 65: This product does not contain substances which require warning under California Proposition 65.
PRIORITY POLLUTANTS:None

16. Other information

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.