Material Safety Data Sheet

Corrosion Inhibitor for Citric Acid (RXSOL-45-1503-005)

1. Product and Company Identifaction

Product Name	RXSOL-45-1503-005
Product Type	Citric Acid Corrosion Inhibitor

Supplier Details:

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

Stock Point : Mumbai, Kandla, Surat, Kolkata, Chennai, Vizag, FUjairah, Muscat

Phone	+91 22 65113333 / 5555 / 9999 / 27815540
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	care@rxmarine.com

2. Composition / informationon ingredients

Chemical Name	CAS Number	%
Complex substitude Keto-Amine-Hydrochloride	Proprietary	10 - 30
2 - Propanol	67-63-0	10 - 30
Alkylphenol ethoxylate	Proprietary	5 - 10
Propargyl alcohol	107-19-7	5 - 10
Butenone	78-94-4	1 - 5
Acetone	67-64-1	1 - 5
Acetophenone	98-86-2	0.1 - 1
Diethyl Thio UREA	27598-95-4	5.0%
Propylene Glycol	57-55-6	1.0%
HEXAMINE	100-97-0	1.0%
Disodium COCOampho Dipropionate	68604-71-7	20%
DTPMPA	.....	10%
HEDP		10%

3. Hazards Identification

Odour	solvent
Appearance	Brown
Contact with eyes	Contact can cause moderate to severe irritation and possible injury to the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Contact with skin	corrosive to the skin contact with the skin or mucous membtranes may cause severe irritation and burn this product contin component that cause allergic damage including
Inhalation	This product is irritating to the respiratory system. Repeated inhalation may be harmful; lung irritation and serious central nervous system disorders may result. Excessive inhalation of this can cause headache, dizziness, nausea and incoordination.
Ingestion	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful or fatal if swallowed.

4. First Aid Measures

Contact with skin	Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water Seek medical advice if necessary
Contact with eyes	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes .Obtain immediate medical attention Ingestion, Never give anything by mouth to an unconscious person Give plenty of water to drink
Ingestion	Get immidiate medical attention. Do not induce vomiting.
Inhalation	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms devolop or persist.

5. Fire-fighting Measures

FlashPoint:	680 F(200 c) Tagliague closed cup
Autoignition tempreture:	Not determined
Flammabble/Explosive limits - lower :	Not determined
Flammabble/Explosive limits - upper :	Not determined

Extinguishing media :	Foam, Dry chemical or carbon dioxide. Water may be an ineffective extinguishing medium . In case of fire , keep containers cool with water spray.
Speacial firefighting procedures :	Wear full protective clothing . Wear self - contained breathing apparatus.
Unusual fire or explosion hazards :	Fire and Explosion hazards are DANGEROUS when this material is exposed to heat or flame . Vapors are heavier than air and may travel along floor to an ignition source.
Hazardous combustion products :	Irritation and toxic gases or fumes may be released during a fire.
Sensitive to Mechanical impact:	Not available
Sensitive to static discharge :	Not available

6. Accidental Release Measures

Personal Precautions	Wear protective clothing as per section 8
Environmental Precautions:	Ventilate area. Pervent further leakage or spillage if safe to do so. Eliminate all source of ignition or flammables that may come into contact with a spill of this material. Wear appropriate protective equipment and clothing during clean- up.
Clean Up methods:	Absorb Spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local government regulations.

7. Handling and Storage

Handling	Avoid contact with eyes. Avoid contact with skin and clothing. Wash throughly after handling . Avoid breathing vapors or mists of this product . Do not take internally. For industrial use only . keep away from heat, spark and flame.
Storage	For safe storage , store between 0^{O}F (-17.8^{O}C) and 120^{O} F (48.9^{O}C) keep container tightly closed and in a cool, well- ventilated place away from incompatible materials. Remove all Source of iginition.

8. Exposure controls and personal protection

Engineering controls:	Use general vantilation and loal exhaust, where possible, in confined or enclosed spaces.
Respiratory protection :	If venitilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.
Eye/face protection:	Wear chemical goggles; face shield (if splashing is possible).
Skin protection :	Chemical resistant, impermeable gloves . Gloves should be tested to determine suitability for prolonged contact . use of imprevious apron and boots are recommanded.

9. Physical and chemical properties

Physical state	Liquid
color	Brown
Odour	solvent
Odour threshold	Not available
pH	2
Vapor pressure	Not determined
Boiling point/range	>82.2 °C (> 108OC)
Melting point/ range	-20OF (-28.9OC)
Specific gravity	1.02 - 1.05 at 60OF (15.56OC)
Vapor density	Not determined
Flash point	68OF (20OC) Tangliabue closed cup
Flammable / Explosive limits - lower	Not determined
Flammable / Explosive limits - upper	Not determined
Autoignition tempreture	Not determined
Evaporation rate	Not determined
Solubility in water	Appreciable
Partition coefficient (n-octanol/water)	Not determined
VOC content	27.2% EPA Method 24

10. Stability and reactivity

Stability	- stable at normal conditions
Hazardous reactions	**-** Will not occur.

Hazardous decomposition products	- Upon decompsition, this product may yield oxides of nitrogen and ammonia ,carbon dioxide carbonmonoxide and other low molecular weight hydrocarbons.
Incompable materials	- This product may reat wiyh strong alkalies. Keep sepreate from strong oxidizing and strong reducing agents . Do not mix with chlorides.
Conditions to Avoids	- Keep away from heat, ignition source and incompatible materials.

11. Toxicological information

Toxicological information	No experimental data available Inhalation. Vapours or aerosols may cause irritation of Eyes, Nose and Respiratory tract.
Contact with skin	In cases of severe exposure, redness and irritation may develop.
Contact with eyes	Causes irritation.
Ingestion	May cause gastro-intestinal disturbances
Carcinogenicity	No evidence of carcinogenic effects.

12. Ecological information

Ecological information: Harmful to aquatic organisms .

13. Disposal considerations

Recommanded methods of disposal: Dispose of according to Federal, state and local gov

14. Transport information

canada transporation of dangerous goods ground

proper shipping name	liquid corrsive N.O.S.
hazard class of division	3(8)
identification number	UN2924
packing group	II

international air transportion

proper shipping name	liquid crossive n.o.s.
hazard class or division	3(8)
identification number	UN2924
packing group	II

water transportion

proper shipping name	liquid crossive n.o.s.
hazard class or division	3(8)
identification number	UN2924
packing group	II

15. Regulatory information

Canada regulartory information

CEPA DSL NDSL All compenents are listed on or are exempt from listing on the canadian domastic substance list.

United states regulatory information

TSCA 8 (B) Inventory status All compenents are listed on or are exempt from listing on the Toxic substance control act inventory

16. Other information

Text of R and S phrase codes used in this safety data sheet:- R34: Causes burns; R36: Irritating to eyes; R37: Irritating to respiratory system; R41: Risk of serious damage to eyes. 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 product is 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

DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.