Material Safety Data Sheet

Rust Scale Remover (RXSOL-16-1094-025)

1. Product and Company Identifaction

Product Name	RXSOL-16-1094-025
Product Type	RUST & SCALE REMOVER

Company Details: RXSOL-16-1094-025

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Chlorous comound Mixture	20-40	7647-01-0	231-595-7	34, 37	C
Phosphoric Mixture	20-30	NA	NA	.....	....
Sodium Sulfide mixture	4-5	NA	NA	NA	
STPP mixture	2-3	NA	NA	NA	
Monomer Mixture	2-5	NA	NA	NA	
Corrosion Inhibitor	5-10	NA	NA	NA	

*See Section 16

3. Hazards Identification

- Odour: Unpleasant odour, Strong smell
- Appearance: Pale yellow / Liquid, brown,
- Contact with eyes: Can cause damage to the eyes
- Contact with skin: Causes burns (R34), Toxic in contact with skin and if swallowed (R24/25)
- Inhalation: May cause severe irritation, May cause dizziness, confusion, headache or stupor, In cases of severe exposure, anaesthesia may develop
- Ingestion: Toxic if swallowed (R25)
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R50/53)

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 When in doubt or symptoms persist, seek medical attention Contaminated clothing should be laundered before reuse
Contact with eyes	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes Irrigate eyes thoroughly whilst lifting eyelids Seek immediate medical attention Continue flushing with water until medical help arrives

Ingestion	Never make an unconscious person vomit or drink fluids Give plenty of water to drink Do not induce vomiting Seek immediate medical attention
Inhalation	Remove patient to fresh air Keep warm and at rest, in a half upright position. Loosen clothing When in doubt or symptoms persist, seek medical attention
General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

5. Fire-fighting Measures

- Non combustible
- Smoke from fires is corrosive, Hydrogen chloride may be formed
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Substance evolves toxic fumes, wear self-contained breathing apparatus
- Use water spray or fog to knock down and absorb corrosive fumes

6. Accidental Release Measures

Personal Precautions	Wear protective clothing as per section 8 Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
Environmental Precautions	Do not allow to enter public sewers and watercourses
Immediate Actions	Use appropriate containment to avoid environmental contamination (S57)
Clean Up Actions	Absorb spillage in inert material and shovel up Ventilate the area and wash spill site after material pick-up is complete
Special Precautions	Wear protective clothing as per section 8 Avoid release to the environment. Refer to special instructions /Safety data sheets (S61) Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

7. Handling and Storage

Handling	Avoid contact with skin and eyes (S24/25), Do not breathe vapour/fumes (S23), Eyewash bottles should be available, Wear protective clothing as per section 8, Ensure adequate ventilation, In use, may form flammable/explosive vapour-air mixture (R18)
Storage	Keep only in the original container in a cool, well ventilated place (S3/9/49), Keep in acid store

8. Exposure controls and personal protection

Exposure Limits	TLV (TWA) 20 ppm, 122 mg/m3 (1,2-Dichlorobenzene).
Exposure controls	The undiluted product must not be used in a confined space without good ventilation.
Occupational exposure controls	Wear approved respirator if exposure likely to exceed MEL/OES Wear goggles giving complete eye protection Wear suitable protective clothing, including eye/face protection and gloves (neoprene or nitrile are recommended)

9. Physical and chemical properties

Odour	Unpleasant odour, Strong smell
Appearance	Paley yellow to brown Liquid,
pH	1.5
Boiling point &gt	100 °C
Vapour pressure	not known
Vapour density	(air = 1) >01
Freezing point	0 °C at 760 mm/Hg
Insoluble in waterb	
Specific gravity	(water=1) 1.02

10. Stability and reactivity

- This article is considered stable under normal conditions, May cause rubber to swell
- Avoid overheating
- Incompatible with strong oxidizing substances, Contact with alkaline earth metals may form explosive gases, Contact with alkali metals may form explosive gases
- See Section 5

11. Toxicological information

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

Ecotoxicity	This product does not contain ingredients which are classified in the EU as dangerous for theenvironment.
Mobility	Completely soluble in water
Persistence and Biodegradability	Its main ingredients will either dissolve rapidly and dissociate in water or are readily /inherently biodegradable.

Bioaccumulation Potential	Bioaccumulation of the components in this product is insignificant. Other Adverse Effects No environmental problems are expected when the product is used / handled correctly.

13. Disposal considerations

Classification	This material and/or its container must be disposed of as hazardous waste EU Waste class Disposal considerations Do not discharge into drains or the environment, dispose to anauthorised waste collection point Disposal should be in accordance with local, state or national legislation

14. Transport information

Proper Shipping Name:

UN

Proper Shipping Name:	Hydrochloricacid, solution		
UN NO.	1789		
Hazard Class	8	PackingGroup	II
Proper Shipping Name	Hydrochloricacid, solution		
ADR UN No.	1789		
ADRHazardClass	8	Tremcard	80GC1789-II

Sear (IMDG)

Proper Shipping Name	Hydrochloricacid, solution		
IMDG UN No.	1789		
IMDG Hazard Class	8	IMDG PackGroup.:	II
IMDG EmS	F-A, S-B	IMDG subrisk	N/A
IMDG Labels	8	IMDG Flashpoint:	N/A

Air(ICAO/IATA)

Proper Shipping Name	Hydrochloricacid, solution		
IMDG UNNo	1789		
IMDG HazardClass	8	ICAO PackingGroup	II
ICAO subrisk	N/A	ICAO Labels:	8+CAO
ICAO Flashpoint	N/A		

DOT/ CFR(US Department ofTransportation

DOT Proper Shipping Name	Hydrochloricacid, solution
HazardousMaterial	Hydrochloricacid

HazardClass	8	IdentificationNumber:	UN1789
Product RQ (lbs)	N/E	DOTsubrisk:	N/A
DOTLabels	8	DOT Flash point:	N/A

- Not classified as hazardous for transport

15. Regulatory information

Risk Phrases	Irritating to eyes (R36)

Safety Phrases Irritant	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)Wear suitable gloves and eye/face protection (S37/39)

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 This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC) This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC) This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC) Composition information in accordance with Regulation (EC) No 648 /2004 of the European Parliament and of the Council of 31 March 2004 on detergents: Nonionic surfactants 5-15 % Amphoteric surfactants 5 %

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