Material Safety Data Sheet

HVAC CHILLER DESCALING CHEMICAL (RXSOL-11-8865-025)

1. Product and Company Identifaction

Product Name	RXSOL-41-8865-025
Product Type	Descaling Chemical Compound for Chiller, Condenser tube of Central AC Plant

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999 / 27611360
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Polymer Chlorous Acid	20-40	Proprietiry	NA	34, 37	C
Corrosion Inhibitor	5-10	NA	NA	NA	
Phosphoric Acid	10-30	7664-38-2	NA	34	C
proprietary Blend of Polymer (For protection of Pitting on metal surface)	20-30	----------	----------	---------	-------

*See Section 16

3. Hazards Identification

Odour	Characteristic Smell
Appearance	Clear Liquid, soluble in water
Contact with eyes	Can cause damage to the eyes
Contact with skin	Prolonged skin or eye contact may cause chemical burns
Inhalation	Causes severe irritation, May cause breathing difficulty
Ingestion	Not regarded as a potential route of exposure.,Causes burning sensation

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	Characteristic smell
Appearance	Clear Liquid, soluble in water
PH	1.5 at 100 % concentration
Boiling point	~ 100 °C at 760 mm /Hg
Vapour pressure	105.5 at 20 deg C
Vapour density (air = 1)	1.26
Freezing point~	30 °C at 760 mm/Hg
Completely soluble in water	
Specific gravity (water=1)	1.16
Non combustible	

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:	Solution of Phosphoric ang Hydrozen Chlorde		
UN NO.	1789		
Hazard Class	8	PackingGroup	II

Road/Rail(ADR/RID)

Proper Shipping Name	Solution of Phosphoric ang Hydrozen Chloride		
ADR UN No.	1789		
ADRHazardClass	8	Tremcard	80GC1789-II

Sear (IMDG)

Proper Shipping Name	Solution of Phosphoric ang Hydrozen Chloride		
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)

ProperShippingName	Solution of Phosphoric ang Hydrozen Chloride		
IMDG UNNo	1789		
IMDG HazardClass	8	ICAO PackingGroup	II
ICAO subrisk	N/A	ICAO Labels:	8+CAO
ICAO Flashpoint	N/A		

DOT/ CFR(USDepartment ofTransportation

DOTProperShippingName	Solution of Phosphoric ang Hydrozen Chloride		
HazardousMaterial	Solution of Phosphoric ang Hydrozen Chloride		
HazardClass	8	IdentificationNumber:	UN1789
Product RQ (lbs)	N/E	DOTsubrisk:	N/A
DOTLabels	8	DOTFlashpoint:	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 appli-cation(s) without seeking advice from manufacturer.