Material Safety Data Sheet

Heat Exchanger Cleaner (RXSOL-16-1681-025)

1. Product and Company Identifaction

Product Name	Heat Exchanger cleaner
Product Type	RXSOL-16-1681-025

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

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Vizag, Fujairah, Muscat

Phone	+91 22 65113333/ 5555 / 9999 / 27611360 / 27815540
Fax	+91 22 2781 1318 :::AOH :0091 9322594669
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Ingredient	%W/W	CAS number
Lactic acid (88%)	7-13	79-33-4
Phosphoric acid	15-40	7664-38-2
Oxalic Acid	5-10	144-62-7

3. Hazards Identification

Corrosive liquid. Causes burns. Harmful if swallowed.

4. First Aid Measures

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Induce vomiting only on the direct advice of a poison control centre. Drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.
Eye contact:	Flush with plenty of water for at least 15 minutes. Get medical attention.
Skin contact:	Remove contaminated clothing and flush with plenty of water.

5. Fire-fighting Measures

Flash point (test method):	Not applicable
Flammable limits (%):	Non-flammable
Lower:	Not applicable
Upper:	Not applicable
Fire extinguishing substances:	Use extinguishing media appropriate for surrounding fire.
Autoignition temperatures:	Not applicable
Hazardous combustion products:	Not applicable
Explosion data:	
Sensitivity to mechanical impact:	Not applicable

Sensitivity to static discharge:	Not applicable
Special firefighting procedures:	As for surrounding fire. Fire fighters should wear full protective clothing and self contained breathing equipment.

6. Accidental Release Measures

Personal precautions:	Wear appropriate protective equipment.
Environmental precautions:	Prevent from entering sewers, waterways or low areas.
Methods for cleaning up:	Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. Handling and Storage

Handling:	Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Keep out of reach of children. Keep container tightly closed. Store in a cool, dry area.

8. Exposure controls and personal protection

Engineering controls:	Provide exhaust ventilation to keep airborne levels below recommended exposure limits.
Respiratory protection:	If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator
Eye protection:	Chemical goggles. Wear a face shield if splashing hazards exists.
Other protection:	Wear protective clothing as necessary to prevent skin contact.

INGREDIENT	ACGIH	OSHA	Other
lactic acid (88%)	Not available		
oxalic acid	TLV - 1 mg/m3		
Phosphoric Acid			

9. Physical and chemical properties

Information on basic physical and chemical properties:

Physical state	Liquid
Boiling point:	Not available
Vapour density:	Not available
Freezing point:	Not available
Sp. Gravity:	1.109
Appearance & odour:	100%
Solubility in water	Not available
Vapour pressure:	Not available

Evaporation rate:	Not available
Odour threshold:	Clear yellow liquid with pungent odour
pH:	1

10. Stability and reactivity

Stability:	Stable
Conditions of instability:	Not available
Incompatibility:	( ) Water (X) Oxidizers ( ) Acid (X) Base ( ) Other
Conditions of reactivity:	Reacts with metals
Hazardous decomposition products:	Not available

11. Toxicological information

POTENTIAL ACUTE HEALTH EFFECTS:

Inhalation:	Corrosive to respiratory system.
Ingestion:	Harmful if swallowed. Causes burns to mouth, throat and stomach.
Eye contact:	Corrosive to eyes. Causes severe burns.
Skin contact:	Corrosive to skin. Causes severe burns.
Skin absorption:	Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS:

Inhalation:	Repeat or prolonged exposure may cause damage to lungs.
Ingestion:	Not available
Eye contact:	Not available
Skin contact:	Not applicable
Skin absorption:	Not applicable
Irritancy of product:	See WHMIS criteria
Sensitization of product:	Not available
Carcinogenicity:	
IARC (1, 2A or 2B):	No known significant effects.
ACGIH: (A1, A2 or A3):	
Reproductive toxicity:	No known significant effects.
Teratogenicity:	No known significant effects.
Mutagenicity:	No known significant effects.
Synergistic product:	Not available

HAZARDOUS INGREDIENTS	CAS NO.	TOXICITY DATA
lactic acid (88%)	79-33-4	LD50 Oral (rabbit) 3730 mg/kg LD50 Dermal (rabbit) 7940 mg/kg
hydrochloric acid	7647-01-0	LC50 Inhalation (rat) 3124 ppm/hour LD50 Oral (rabbit) 900 mg/kg

12. Ecological information

Ecotoxicological information: Not available

13. Disposal considerations

Waste disposal:
Disposal of all waste must be done according to local, provincial and federal regulations.

14. Transport information

TDG classification:
Corrosive Liquid, N.O.S.(hydrochloric acid,lactic acid); 8;UN 1760,PG II

15. Regulatory information

WHMIS: E Corrosive material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. Other information

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.

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