Material Safety Data Sheet

Radiator Cleaner Acidic (RXSOL-16-2697-025)

1. Product and Company Identifaction

Product Name	RXSOL-16-2697-025
Trade Name	Radiator Cleaner

Company Details:

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

Stock Point : Mumbai, Kandla Surat, Kolkata, Chennai, Vizag, Fujairah, Musat, Nairobi

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

2. Composition / informationon ingredients

Proprietory Blend Of Acidic Surfactant ingrident.

3. Hazards Identification

POTENTIAL HEALTH EFFECTS:

INHALATION:	Inhalation of vapor or mist is corrosive to respiratory tract. Symptoms include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.
EYE CONTACT	Liquid , irritating to eyes. Immediate irritation followed by destruction of tissue
SKIN CONTACT	Use gloves. Dont directly on naked skin
INGESTION:	moderately toxic, causes nausea, vomiting, loss of consciousness
CHRONIC Effects	Damage to kidneys and liver .Changes in bones or joints

4. First Aid Measures

INHALATION:	Ensure the victim’s clothing or skin has not been contaminated by the acid before removing the victim to fresh air. If breathing has stopped, begin artificial respiration. Call ambulance immediately for assistance
EYE CONTACT:	Flush eyes with water for 15 minutes with copious cool flowing water. If only one eye is affected, be careful not to flush contaminated water into the other eye. Tilt the head in the direction of the affected eye while flushing. Take the victim to a medical facility immediately, and apply ice water compress during transport.

SKIN CONTACT:	Move the victim immediately under an emergency shower or other water source and flush the affected area with large amounts of cool running water. Immediately washing off the acid is of primary importance. Remove all contaminated clothing while flushing with water. If there is a large area of exposure, arrange for emergency medical assistance while the victim is being rinsed with water.Immediately after flushing with water, begin massaging calcium gluconate gel into the burn site. Apply the gel every 15 minutes and massage until pain/redness resolves or until medical care is available. The first aider should wear gloves when applying the gel to prevent transfer of the acid.
INGESTION:	Do not induce vomiting. Rinse mouth out with water. Call an ambulance immediately for assistance

5. Fire-fighting Measures

FLASHPOINT (TEST METHOD):	None
FLAMMABLE LIMITS:	
LOWER:	NA
UPPER:	NA
GENERAL HAZARD:	NA
FIRE FIGHTING INSTRUCTIONS: .	Approach fire from upwind side. Avoid breathing smoke, fumes, mist, or vapors on the downwind side.Firefighters wear protective clothing and self-contained breathing apparatus
EXTINGUISHING MEDIA:	Dry powder, carbon dioxide (CO2), water fog or spray
HAZARDOUS COMBUSTION PRODUCTS: .	Smoke, irritating vapors, toxic fumes of POx, and corrosive F fumes, CO, CO2

6. Accidental Release Measures

LAND SPILL: Emergency response coordinator must have mandated training. Eliminate all ignition sources.

SMALL SPILLS: Pick up with absorbent materials and place in non-leaking containers; seal tightly for proper disposal or reuse.

LARGE SPILLS: Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak if safe to do so.
Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels.

WATER SPILL: Notify proper authorities.

Clean up leaks/spills immediately to prevent soil or water contamination.

7. Handling and Storage

HANDLING: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in section IV. Launder contaminated clothing before reuse.

STORAGE: Store away from food stuffs, alkaline materials

8. Exposure controls and personal protection

PERSONAL PROTECTION: If TLV is exceeded wear NIOSH approved respirator. Use heavy rubber type gloves, full-face shield and boots, aprons, drench showers, eye wash as needed for protection against spills and/or splashes

9. Physical and chemical properties

VAPOR PRESSURE:	ND
SPECIFIC GRAVITY (H2O=1):	1.15
SOLUBILITY IN WATER:	Complete
pH:	NA
BOILING POINT:	212 F
APPEARANCE & ODOR:	Pink liquid, pungent odor
VAPOR DENSITY (Air=1):	>1
EVAPORATION RATE (BuAc=1):	>1
VOC:	0%
FREEZING POINT:	ND

10. Stability and reactivity

STABILITY:	Stable
CONDITIONS TO AVOID:	High temperatures
MATERIALS TO AVOID:	Alkaline materials may react with metals to produce gas.
HAZARDOUS DECOMPOSITION PRODUCTS:	Corrosive F fumes, toxic POx fumes, from combustion -smoke, CO, CO2
HAZARDOUS POLYMERIZATION:	Will not occur

11. Toxicological information

Phospho LDLo: 220 mg/kg (unr - man)
LD50: 1530 mg/kg (oral - rat)
LD50: 2740 mg/kg (skin - rat)

HF LCLo: 50 ppm / 30 M (inh - human)
LC50: 966 ppm / 1 hr (inh - rat)
TCLo: 100 mg/m3 (inh - human) NOSE,EYE, PUL

12. Ecological information

Harmful to aquatic life in high concentrations

Phospho 138 ppm / 24 hr / mosquito fish / TLm / fresh water
HF 60 ppm / fish / lethal / fresh water

13. Disposal considerations

Dispose as hazardous waste. Classification and documentation is required before disposal. Follow all local, state and federal regulations

14. Transport information

PROPER SHIPPING NAME:	Coil Cleaning Liquid
IDENTIFICATION NUMBER:	UN3264
DOT Emergency Guide #:	154
Reportable Quantity (RQ):	Not applicable

15. Regulatory information

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): Reportable quantity is 100 pounds (hydrofluoric acid). Contact local authorities for other reporting requirements.

CALIFORNIA PROPOSITION 65: Not listed.

16. Other information

State Right-to-Know Programs: MA, NJ, PA

NFPA Ratings
Health: 4
Flammability: 0
Reactivity: 1
HMIS Protective Equipment: X See your supervisor

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