

Redkleen RX 400 Radiator Flush Cleaner (RXSOL-40-4051-025)

MATERIAL SAFETY DATA SHEET • SALALAH CHEMICAL, OMAN

1. Product and Company Identification

www.rxmarine.com

Product Name	RXSOL-40-4051-025
Trade Name	Redkleen RX 400 Radiator Flush & Cleaner

Company Details:

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

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

Phone	+91 22 27815540 / 41 / 42
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Email	mail@rxmarine.com

2. Composition / Information on ingredients

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Proprietary Blend Of Alkaline Surfactant ingredient.

3. Hazards Identification

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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

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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

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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

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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

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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

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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

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Appearance	:	Liquid
Colour	:	Clear, Brown
Odour	:	Odourless
pH	:	Alkaline 9-12.5
Flash point	:	Not flammable
Boiling Point	:	109 °C
Freezing point	:	NA
Solubility in Water	:	Soluble in any ratio

10. Stability and reactivity

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STABILITY:	Stable
CONDITIONS TO AVOID:	High temperatures
MATERIALS TO AVOID:	Acidic 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

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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

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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

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

14. Transport information

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Transport of dangerous goods by road , rail and inland waterway (ADR/RID/ADN)

UN Number	None
Proper shipping name	Redkleen RX 400 Radiator Flush & Cleaner
Particulars in the transport document	Unrestricted, Not Classified as Dangerous Goods
Class	None
Packing group	None

International Maritime Dangerous Goods Code (IMDG)

UN Number	None
Proper shipping name	Redkleen RX 400 Radiator Flush & Cleaner
Particulars in the transport document	Unrestricted, Not Classified as Dangerous Goods
Class	None
Packing group	None

International Civil Aviation Organization (ICAO-IATA/DGR)

UN Number	None
Proper shipping name	Redkleen RX 400 Radiator Flush & Cleaner
Particulars in the transport document	Unrestricted, Not Classified as Dangerous Goods
Class	None
Packing group	None

15. Regulatory information

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

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): Silcate

Contact local authorities for other reporting requirements.

CALIFORNIA PROPOSITION 65: Not listed.

16. Other information

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

NFPA Ratings

Health: 4

Flammability: 0

Reactivity: 1

HMIS Protective Equipment: X See your supervisor.

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if RX Marine International has been advised of the possibility of such damages. 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.
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