# Material Safety Data Sheet

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

## 1. Product and Company Identifaction

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| 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 |
| Fax | +91 22 2781 1318 :::AOH :0091 9821214367 |
| Email | mail@rxmarine.com |

## 2. Composition / informationon ingredients

Proprietory Blend Of Alkaline Surfactant ingredient.

## 3. Hazards Identification

**POTENTIAL HEALTH EFFECTS:**

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|---|---|
| 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. |

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| 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

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

| | | |
|---|---|---|
| Appreance | : | Liquid |
| Colour | : | Clear, Brown |
| Odour | : | Odourless |
| pH | : | Alkaline 9-12.5 |
| Flash point | : | Not flamable |
| 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

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

**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

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

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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| 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 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.<br><br>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. |