1. Product and Company Identification

Product Name: RID-X® - Septic System Treatment (Liquid)
UPC CODES: Refer to Section 16
CAS #: Mixture
Product use: Septic treatment
Distributed by: Reckitt Benckiser
Morris Corporate Center IV
399 Interpace Parkway
P.O. Box 225
Parsippany, NJ 07054-0225
In Case of Emergency: 1-800-228-4722
Transportation Emergencies: 24 Hour Number:
North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Moderate</td>
<td>2</td>
<td></td>
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<tr>
<td>Slight</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Hazards Identification

Emergency overview

CAUTION: May cause eye irritation. May cause mild skin irritation after prolonged contact. Inhaling mist from this product could cause irritation to the lungs and mucous membranes. Ingestion could cause irritation to the mouth and throat. Individuals having known allergies, as well as those with respiratory disease or disorders should avoid contact with this product.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

May cause eye irritation.

Skin

May cause mild skin irritation after prolonged contact.

Inhalation

Inhaling mist from this product could cause irritation to the lungs and mucous membranes.

Ingestion

May be harmful if swallowed.

Ingestion could cause irritation of the mouth and throat.

Target organs

Eyes. Respiratory system. Skin.

Chronic effects

The finished product is not expected to have chronic health effects.

Signs and symptoms

Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Amylase (EC# 3.2.1.1)</td>
<td>9000-90-2</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Bacteria, complex with amylase and proteinase</td>
<td>68920-42-3</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Cellulase (ID# 3.2.1.4)</td>
<td>9012-54-8</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Subtilisin carlsburg</td>
<td>9014-01-1</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Triacylglycerol Lipase (EC# 3.1.1.3)</td>
<td>9001-62-1</td>
<td>10 - 20</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures

**Eye contact**
If in eyes, rinse eyes with water for fifteen minutes, if irritation persists, see a physician.

**Skin contact**
If on skin, wash the product off the skin with soap and water. If irritation develops, seek the care of a physician.

**Inhalation**
If inhaled, move to fresh air and avoid further contact with product. If breathing or skin problems develop, see the care of a physician.

**Ingestion**
If ingested, drink water to dilute and call a physician. Induce vomiting only if advised by a physician. Contains enzymes.

Notes to physician
Contains a bacterial complex with amylase, protease and subtilisin protease enzymes.

General advice
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

**Flammable properties**
Not flammable by OSHA criteria.

**Extinguishing media**
- **Suitable extinguishing media**
- **Unsuitable extinguishing media**
  Not available

**Protection of firefighters**
Not available

**Specific hazards arising from the chemical**
Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products**
May include and are not limited to: Oxides of carbon.

**Explosion data**
- **Sensitivity to mechanical impact**
  Not available
- **Sensitivity to static discharge**
  Not available

6. Accidental Release Measures

**Personal precautions**
Ensure adequate ventilation. Use personal protective equipment.

**Methods for containment**
Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**
Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

**Handling**
Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Minimize dust generation and accumulation.
Avoid contact with eyes, skin and clothing.

**Storage**
Keep out of reach of children.
Store in a closed container away from incompatible materials.
Do not store in direct sunlight.
Store away from heat.
Store in a cool dry place inaccessible to children and pets.
### 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Amylase (EC# 3.2.1.1)</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Bacteria, complex with amylase and proteinase</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Cellulase (ID# 3.2.1.4)</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Subtilisin carlsburg</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 0.0001 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Triacylglycerol Lipase (EC# 3.1.1.3)</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

#### Engineering controls

General ventilation normally adequate.

#### Personal protective equipment

**Eye / face protection**
- Avoid contact with eyes. Wear safety glasses with side shields.
- Emergency responders should wear full eye and face protection.

**Hand protection**
- Avoid contact with the skin. Wear impervious gloves where the potential for contact with the liquid is possible.
- Emergency responders should wear impermeable gloves.

**Skin and body protection**
- Long sleeved clothing
- Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
- Follow label directions carefully.

**Respiratory protection**
- None required where adequate ventilation conditions exist. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
- Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

**General hygiene considerations**
- Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Blue to Blue Green</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>soapy</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>6.3 - 8.8</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Pour point: Not available
Boiling point: Not available
Flash point: > 199.94 °F (> 93.3 °C)
Evaporation rate: Not available
Flammability limits in air, lower, % by volume: Not available
Flammability limits in air, upper, % by volume: Not available
Vapor pressure: Not available
Vapor density: Not available
Specific gravity: > 1
Octanol/water coefficient: Not available
Solubility (H2O): Complete
Auto-ignition temperature: Not available

10. Stability and Reactivity

Chemical stability: Stable under recommended storage conditions.
Conditions to avoid: Do not mix with other chemicals.
Hazardous decomposition products: May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions: Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50
Ingredient(s) | LC50
---|---
A-Amylase (EC# 3.2.1.1) | Not available
Bacteria, complex with amylase and proteinase | Not available
Cellulase (ID# 3.2.1.4) | Not available
Subtilisin carlsburg | Not available
Triacylglycerol Lipase (EC# 3.1.1.3) | Not available

Component analysis - Oral LD50
Ingredient(s) | LD50
---|---
A-Amylase (EC# 3.2.1.1) | 7500 mg/kg rat
Bacteria, complex with amylase and proteinase | Not available
Cellulase (ID# 3.2.1.4) | 30900 mg/kg mouse
Subtilisin carlsburg | Not available
Triacylglycerol Lipase (EC# 3.1.1.3) | 45500 mg/kg rat

Effects of acute exposure
- **Eye**: May cause eye irritation.
- **Skin**: May cause mild skin irritation after prolonged contact.
- **Inhalation**: Inhaling mist from this product could cause irritation to the lungs and mucous membranes.
- **Ingestion**: May be harmful if swallowed. Ingestion could cause irritation of the mouth and throat.
- **Sensitization**: May cause sensitization of susceptible persons.
- **Chronic effects**: The finished product is not expected to have chronic health effects.
- **Carcinogenicity**: The finished product is not expected to have chronic health effects.
- **Mutagenicity**: The finished product is not expected to have chronic health effects.
- **Reproductive effects**: The finished product is not expected to have chronic health effects.
- **Teratogenicity**: The finished product is not expected to have chronic health effects.
### 12. Ecological Information

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecotoxicity</td>
<td>Not available</td>
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<tr>
<td>Environmental effects</td>
<td>Not available</td>
</tr>
<tr>
<td>Aquatic toxicity</td>
<td>Not available</td>
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<tr>
<td>Persistence / degradability</td>
<td>Not available</td>
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<tr>
<td>Bioaccumulation / accumulation</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Mobility in environmental media</td>
<td>Not available</td>
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<tr>
<td>Chemical fate information</td>
<td>Not available</td>
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</tbody>
</table>

### 13. Disposal Considerations

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste codes</td>
<td>Not available</td>
</tr>
<tr>
<td>Disposal instructions</td>
<td>Small quantities of waste liquid may be discharged into a sanitary sewer. Discard any absorbed material in trash collection. Rinse empty container thoroughly and discard in trash or recycle. Large Quantities: Wearing appropriate personal protective equipment, collect and store in an appropriate container for disposal according to local, state, provincial and federal regulations. Avoid creating a mist during the clean-up operations. do not use a high pressure washer for clean-up of spilled or waste materials.</td>
</tr>
<tr>
<td>Waste from residues / unused products</td>
<td>Not available</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 14. Transport Information

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN/ID N.o.</td>
<td>Not applicable</td>
</tr>
<tr>
<td>U.S. Department of Transportation (DOT): Classification:</td>
<td>Not regulated</td>
</tr>
<tr>
<td>Proper shipping name</td>
<td>Not applicable</td>
</tr>
<tr>
<td>U.S. DOT Hazard Class</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
<tr>
<td>DOT RQ (lbs)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ERG NO</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Transportation of Dangerous Goods (TDG - Canada): Classification:</td>
<td>Not regulated</td>
</tr>
<tr>
<td>Proper shipping name</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Status</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
IMDG (Marine Transport): Classification: Not regulated
Proper shipping name  Not applicable
Class  Not applicable
Subsidiary Risk  Not applicable
Packing group  Not applicable
IMDG Page  Not applicable
Marine pollutant  Not applicable
EMS  Not applicable
MFAG  Not applicable
Maximum Quantity  Not applicable

IATA/ICAO (Air): Classification: Not regulated
Proper shipping name  Not applicable
Class  Not applicable
Subsidiary Risk:  Not applicable
Packing group  Not applicable
Maximum Quantity  Not applicable

15. Regulatory Information

US Federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

Product Registration:  Not registered

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical  Yes

CERCLA (Superfund) reportable quantity
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance  No
Section 311 hazardous chemical  Yes

Clean Air Act (CAA)  Not available
Clean Water Act (CWA)  Not available

State regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances
Subtilisin carlsburg  9014-01-1  Present
### Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

### 16. Other Information

**Disclaimer**

This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Further information**

19200-79281 - 64 oz. - 0242210; 19200-83007 - 48 oz. - 0242210;
19200-83383 - 24 oz. - 0242210; 19200-83384 - 32 oz. - 0242210

**Issue date**

10-June-2010

**Effective date**

01-Apr-2010

**Prepared by**

Reckitt Benckiser Regulatory Department  800-333-3899

**Other information**

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.