SAFETY DATA SHEET

RECTORSEAL® NO.5® SUB-ZERO
Low-temperature, low-odor pipe thread sealant

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name
   Rectorseal® No.5® Sub-Zero

Product Codes
   27731, 27651, 27541, 27460, 27371, 27111, 27222

Chemical Family
   Organic

Use
   Pipe thread sealant

Manufacturer’s Name
   The RectorSeal Corporation
   2601 Spenwick Drive
   Houston, Texas 77055 USA

Date of Validation
   January 23, 2015

Date of Preparation
   October 10, 2012

HMIS Codes
   Health 1
   Flammability 1
   Reactivity 0
   PPI B

Emergency Telephone No.
   Chemtrec 24 Hours
   (800)-424-9300 USA
   (703)-527-3887 International

Technical Service Telephone No.
   (800)-231-3345 or (713)-263-8001

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

OSHA Hazards
   Target Organ Effect, Teratogen, Reproductive hazard

Target Organs
   Liver, Kidney, Testes.

GHS CLASSIFICATION
   Eye irritation (Category 2B)
   Reproductive toxicity (Category 2)
**GHS Label elements, including precautionary statements**

GHS08: Health Hazard/ Target Organ Toxicity
Signal Word: **Warning**

**Hazard statement(s)**
- H320 - Causes eye irritation.
- H361 - Suspected of damaging fertility or the unborn child.

**Precautionary statement(s)**
- P281 - Use personal protective equipment as required.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Summary Of Acute Hazards**
Irritation to eyes, nose and throat; drowsiness, narcosis, tremors and other CNS effects at high concentration.

**Route Of Exposure, Signs And Symptoms**

**INHALATION**
- Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression and unconsciousness.

**EYE CONTACT**
- Watering, blurred vision, inflammation and irritation which can result in corneal injury.

**SKIN CONTACT**
- Irritation, dermatitis.

**INGESTION**
- Nausea, vomiting; CNS depression; irritation of gastrointestinal tract, liver and peritoneal wall; lung congestion.

**SUMMARY OF CHRONIC HAZARDS**
- Skin irritation and dermatitis. Possible liver and kidney damage.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**
- Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver or kidneys may have increased susceptibility to excessive exposures.

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**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Ingredient:</th>
<th>Diethylene Glycol Methyl Ether</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage By Weight:</td>
<td>16 Max</td>
</tr>
<tr>
<td>CAS Number:</td>
<td>111-77-3</td>
</tr>
<tr>
<td>EC#:</td>
<td>203-906-6</td>
</tr>
</tbody>
</table>
Section 4 – First Aid Measures

If inhaled: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

If on skin: Immediately flush with large amounts of water for at least 15 minutes. If irritation occurs, seek medical attention.

If in eyes: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

If swallowed: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 – Fire Fighting Measures

Extinguishing Media
Foam, dry chemical, carbon dioxide or water fog.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10).

Unusual Fire And Explosion Hazards: None known.

Section 6 – Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Use absorbent materials to prevent footing hazard and to contain. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Section 7 – Handling and Storage

Precautions To Be Taken In Handling And Storing: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames.

Other Precautions: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

KEEP OUT OF REACH OF CHILDREN.
Section 8 – Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol Methyl Ether</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV:</td>
<td>N/D</td>
</tr>
<tr>
<td>OSHA PEL:</td>
<td>N/D</td>
</tr>
</tbody>
</table>

**Respiratory Protection (Specify Type):** In confined poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air purifying or supplied air respirators.

**Ventilation – Local Exhaust:** Acceptable

**Special:** Explosion-proof equipment.

**Mechanical (General):** Preferable

**Other:** N/A

**Protective Gloves:** Wear rubber gloves.

**Eye Protection:** Chemical splash goggles (ANSI Z-87.1 or equivalent)

**Other Protective Clothing Or Equipment:** Coveralls recommended.

**Work/Hygienic Practices:** Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

Section 9 – Physical and Chemical Properties

- Boiling point: 374°F (190°C) @ 760 mmHg
- Specific gravity (H2O = 1): 1.40
- Vapor pressure (mmHg): 0.25 @ 77°F (20°C)
- Melting point: N/A
- Vapor Density (Air = 1): > 1
- Evaporation rate (Ethyl Acetate = 1): < 1
- Appearance/Odor: Gray paste/Mild odor
- Solubility in water: 16%
- Volatile Organic Compounds (VOC) Content (theoretical percentage by weight): 16% or (160 g/L)
- Flash point: 208°F (98°C) SETA CC
- Lower explosion limit: N/D
- Upper explosion limit: N/D
**Section 10 – Stability and Reactivity**

**Stability:** Stable

**Conditions To Avoid:** Heat, sparks, open flames, and strong oxidizing. Temperatures above 500°F (260°C).

**Incompatibility (Materials To Avoid):** Gaseous oxygen, strong oxidizing materials, molten alkali metals.

**Hazardous Decomposition Products:** CO, \( \text{CO}_2 \) and fragmented hydrocarbons.

**Hazardous Polymerization:** Will not occur.

**Section 11 – Toxicology Information**

**Chronic Health Hazards**
No ingredient in this product is an IARC, NTP or OSHA Lister carcinogen.

**Toxicology Data**

**Ingredient Name**

**Diethylene Glycol Methyl Ether**
- Oral-Rat LD50: 5500 mg/kg
- Inhalation-Rat LC50: N/D

**Section 12 – Ecological Information**

**Ecological Data**

<table>
<thead>
<tr>
<th>Ingredient Name</th>
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<tbody>
<tr>
<td><strong>Diethylene Glycol Methyl Ether</strong></td>
<td></td>
</tr>
<tr>
<td>Food Chain Concentration Potential</td>
<td>N/A</td>
</tr>
<tr>
<td>Waterfowl Toxicity</td>
<td>N/A</td>
</tr>
<tr>
<td>BOD</td>
<td>34%</td>
</tr>
<tr>
<td>Aquatic Toxicity</td>
<td>N/A</td>
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</tbody>
</table>

**Section 13 – Disposal Considerations**

**Waste Classification:** Non-regulated solid waste

**Disposal Method:** Approved landfill

Waste from this product is not considered hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.
SECTION 14 – TRANSPORTATION INFORMATION

DOT: Non-regulated
Ocean (IMDG): Non-regulated
Air (IATA): Non-regulated
WHMIS (Canada): Non-regulated

SECTION 15 – REGULATORY INFORMATION

Regulatory Data

Ingredient Name: Diethylene Glycol Methyl Ether
  SARA 313 Yes
  TSCA Inventory Yes
  CERCLA RQ N/A
  RCRA Code N/A

SECTION 16 – OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made.

Consult RectorSeal for further information: (713) 263-8001