**SAFETY DATA SHEET**

**RECTORSEAL® HI-TEMP™**

100% RTV Silicone Caulk

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### Section 1 – Product and Company Information

**Product Name**
RectorSeal® Hi-Temp™ 100% RTV Silicone Caulk

**Product Codes**
57500

**Chemical Family**
Organic/Inorganic

**Use**
RTV Silicone Sealant

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

**Date of Validation**
January 23, 2015

**Date of Preparation**
March 6, 2013

**HMIS Codes**
- Health: 2
- Flammability: 1
- Reactivity: 1
- 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

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### Section 2 – Hazards Identification

**EMERGENCY OVERVIEW**

**OSHA Hazards**
- Irritant

**GHS Classification**
- Acute toxicity, Oral (Category 5)
- Skin irritation (Category 2)
- Eye irritation (Category 2A)
- Specific target organ toxicity - single exposure (Category 3)
GHS Label elements, including precautionary statements

GHS07: Harmful/Irritant
Signal Word: **Warning**

Hazard statement(s)
- H303 - May be harmful if swallowed.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.

Precautionary statement(s)
- P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 - Wash hands thoroughly after handling.
- P280 - Wear protective gloves/ protective clothing.
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P307 + P311 - IF exposed: Call a POISON CENTER or doctor/ physician.

Summary Of Acute Hazards
Vapor evolved during product curing may be irritating to nose and throat. Eye contact may cause intense irritation and injury. May cause skin irritation.

Route Of Exposure, Signs And Symptoms

**INHALATION**
- Irritation to respiratory system from vapor evolved during product curing.

**EYE CONTACT**
- Contact may cause intense irritation and injury.

**SKIN CONTACT**
- May cause skin irritation.

**INGESTION**
- May cause gastrointestinal distress.

**SUMMARY OF CHRONIC HAZARDS**
- Repeated contact may cause dermatitis, eye irritation, or bronchitis.

**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 exposure.
Section 3 – Composition/Information on Ingredients

**Ingredient:** Methyltriacetoxysilane  
Percentage By Weight: 2  
CAS Number: 4253-34-3  
EC#: 224-221-9

**Ingredient:** Ethyltriacetoxysilane  
Percentage By Weight: 2  
CAS Number: 17689-77-9  
EC#: N/D

**Ingredient:** Silica  
Percentage By Weight: 10  
CAS Number: 7631-86-9  
EC: 262-373-8

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: Wash with soap and water. Remove contaminated clothing. If irritation occurs, seek medical attention.

If in eyes: Immediately flush with large amounts of water for at least 15 minutes. Get prompt 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.
SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Wipe up spills to prevent footing hazard. Avoid flushing into sewers, drains, waterways and soil. Wear protective clothing during clean up.

SECTION 7 – HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storing: Store in cool place. Keep container closed and upright when not in use.

Other Precautions: Provide adequate ventilation during use to keep ambient air acetic vapor concentration below TLV, or use respirator protection.

Comment: When heated to temperatures above 302°F (150°C) in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard; a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible exposure limit for formaldehyde. 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>
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<tbody>
<tr>
<td>Methyltriacetoxyisilane</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV:</td>
<td>10 ppm</td>
</tr>
<tr>
<td>OSHA PEL:</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Ethyltriacetoxyisilane</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV:</td>
<td>10 ppm</td>
</tr>
<tr>
<td>OSHA PEL:</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Silica</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV:</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>OSHA PEL:</td>
<td>6 mg/m3</td>
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</table>

COMMENT: TVL for acetoxyisilane based on acetic acid formed during curing on exposure to water, moisture, or humid air. Observe limits for acetic acid, formed during curing on exposure to water or humid air. OSHA PEL: TWA 10 ppm. ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Respiratory Protection (Specify Type): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators until vapors from cured product have dissipated.

Ventilation – Local Exhaust: Maintain air flow during application.

Special: N/A

Mechanical (General): Preferable

Other: N/A

Protective Gloves: Coveralls recommended.
RECTORSEAL® HI-TEMP™

Section 9 – Physical and Chemical Properties

- Boiling point: 212°F (100°C) @ 760 mmHg
- Specific gravity (H2O = 1): 1.04
- Vapor pressure (mmHg): < 5 mmHg
- Melting point: N/A
- Vapor Density (Air = 1): N/A
- Evaporation rate (Ethyl Acetate = 1): N/A
- Appearance/Odor: Paste/Acetic acid vinegar odor
- Solubility in water: Insoluble
- Volatile Organic Compounds (VOC) Content (theoretical percentage by weight): 32 g/L
- Flash point: None
- Lower explosion limit: N/D
- Upper explosion limit: N/D

Section 10 – Stability and Reactivity

Stability: Stable

Conditions To Avoid: Exposure to air or moisture until ready to use.

Incompatibility (Materials To Avoid): Oxidizing material can cause a reaction. Air or moisture causes curing and acetic acid vapor forms.

Hazardous Decomposition Products: Silicone dioxide, carbon dioxide, and traces on incompletely burned carbon products, including formaldehyde.

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

- Methyltriacetoxysilane
  - Oral-Rat LD50: 2060 mg/kg
  - Inhalation-Rat LC50: N/D

Eye Protection: Safety glasses (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 12 – Ecological Information

Ecological Data

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Food Chain Concentration Potential</th>
<th>Waterfowl Toxicity</th>
<th>BOD</th>
<th>Aquatic Toxicity</th>
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<tbody>
<tr>
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<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
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<tr>
<td>Ethyltriacetoxyisilane</td>
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<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
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<tr>
<td>Silica</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
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</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

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<tr>
<th>DOT:</th>
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<tbody>
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<td>Ocean (IMDG):</td>
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<tr>
<td>Air (IATA):</td>
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<tr>
<td>WHMIS (Canada):</td>
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</table>

### Section 15 – Regulatory Information

**Regulatory Data**

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<tr>
<th>Ingredient Name:</th>
<th>Methyltriacetoxyisilane</th>
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<tbody>
<tr>
<td>SARA 313</td>
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<tr>
<td>TSCA Inventory</td>
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</tr>
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<td>CERCLA RQ</td>
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<tr>
<td>RCRA Code</td>
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</table>

<table>
<thead>
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<th>Ingredient Name:</th>
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<td>SARA 313</td>
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<tr>
<td>TSCA Inventory</td>
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<tr>
<td>CERCLA RQ</td>
<td>1000 lbs.</td>
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<tr>
<td>RCRA Code</td>
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</table>

<table>
<thead>
<tr>
<th>Ingredient Name:</th>
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<td>Yes</td>
</tr>
<tr>
<td>TSCA Inventory</td>
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<tr>
<td>CERCLA RQ</td>
<td>100 lbs.</td>
</tr>
<tr>
<td>RCRA Code</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 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