SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name
Rectorseal® No.7

Product Codes
17432

Chemical Family
Organic

Use
Pipe thread sealant

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

Date of Validation
February 19, 2018

Date of Preparation
February 19, 2018

HMIS Codes
Health 2
Flammability 3
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
Flammable liquid, Target Organ Effect, Irritant

Target Organs
Liver, Kidney/Liver, Kidney

GHS CLASSIFICATION

Physical Hazards
Flammable Liquid, Category 3

Health Hazards
Acute Toxicity:
Oral: Category 4
Dermal: Category 5
Inhalation: Category 4
Skin Corrosion/Irritation: Category 3
Serious Eye Damage/Eye Irritation: Category 2A
Skin Sensitization: Not Classified
Respiratory Sensitization: Not Classified
Germ Cell Mutagenicity: Not Classified
Carcinogenicity: See Section 11
Reproductive Toxicology: Not Classified
Target Organ Systemic Toxicity - Single Exposure: Category 3
Target Organ Systemic Toxicity - Repeated Exposure: Not Classified
Aspiration Toxicity: Not Classified

GHS Label elements, including precautionary statements

GHS02: Flammable
GHS07: Exclamation Mark
Signal Word: Danger

Hazard Statements:
H226 - Flammable liquid and vapour.
H302 - Harmful if swallowed.
H313 - May be harmful in contact with skin.
H316 - Causes mild skin irritation.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation
H335 + H336 - May cause respiratory irritation, and drowsiness or dizziness.

Precautionary Statements:
P102 - Keep out of reach of children.
P210 - Keep away from heat/sparks/open flames/hot surfaces - no smoking.
P240 - Ground/Bond container and receiving equipment.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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.
P362 - Take off contaminated clothing and wash before reuse.

EUH066 - Repeated exposure may cause skin dryness or cracking
Precautionary Statements - EU No. 1272/2008

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.

Section 3 – Composition/Information on Ingredients

**Ingredient:** Diacetone Alcohol
**Percentage By Weight:** 24.7
**CAS Number:** 123-42-2
**EC#:** 204-626-7

**Ingredient:** Ethyl Acetate
**Percentage By Weight:** 3.76
**CAS Number:** 141-78-6
**EC#:** 205-500-4

**Ingredient:** Methyl Isobutyl Ketone
**Percentage By Weight:** 0.1
**CAS Number:** 108-10-1
**EC#:** 203-550-1

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. Get prompt 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: Flammable - ambient flash point. Vapors heavier than air and may travel along the ground or to low spots at considerable distances to a source of ignition resulting in potential flashback. Burning liquid may float on water. Heat may build up pressure and rupture containers.

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>
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<tbody>
<tr>
<td>Diacetone Alcohol</td>
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<tr>
<td>ACGIH TLV:</td>
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<td>OSHA PEL:</td>
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<td>ACGIH TLV:</td>
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<tr>
<td>OSHA PEL:</td>
<td>100 ppm</td>
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</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.

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

- **Boiling point:** 322°F (161°C) @ 760 mmHg
- **Specific gravity (H2O = 1):** 1.46
- **Vapor pressure (mmHg):** 0.3 @ 68°F (20°C)
- **Melting point:** N/A
- **Vapor Density (Air = 1):** 1.1
- **Evaporation rate (Ethyl Acetate = 1):** 0.14
- **Appearance/Odor:** Black paste/Mild odor
- **Solubility in water:** Insoluble

**Volatile Organic Compounds (VOC) Content (theoretical percentage by weight):** 28% or (408 g/L)

- **Flash point:** 77°F (25°C) SETA CC
- **Lower explosion limit:** N/D
- **Upper explosion limit:** N/D

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**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, CO₂ 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

Diacetone Alcohol
- Oral-Rat LD50: 4000 mg/kg
- Inhalation-Human TCLo: 100 ppm

Ethyl Acetate
- Oral-Rat LD50: 5620 mg/kg
- Inhalation-Rat LC50: 100 ppm
- Skin Rabbit LD50: > 20 ml/kg

Methyl Isobutyl Ketone
- Oral-Rat LD50: 2080 mg/kg
- Skin Rabbit > 20 ml/kg: Irritation eye rabbit

Section 12 – Ecological Information

Ecological Data

Ingredient Name: Diacetone Alcohol
- Food Chain Concentration Potential: N/A
- Waterfowl Toxicity: N/A
- BOD: N/A
- Aquatic Toxicity: N/A

Ingredient Name: Ethyl Acetate
- Food Chain Concentration Potential: N/A
- Waterfowl Toxicity: LC50/96-Hr values for fish are > 100 mg/L
- BOD: N/A
- Aquatic Toxicity: N/A

Ingredient Name: Methyl Isobutyl Ketone
- Food Chain Concentration Potential: N/A
- Waterfowl Toxicity: N/A
- BOD: N/A
- Aquatic Toxicity: N/A
SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Classification: RCRA Hazardous Waste, DOO1
Disposal Method: Approved incineration
Waste from this product is 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: UN1993, Flammable liquid n.o.s. (contains diacetone alcohol & ethyl acetate), Class 3, PG III, ERG#128
Quarts and less: UN1993, Flammable liquid n.o.s. (contains diacetone alcohol & ethyl acetate), Class 3, PG III, Limited Quantities or Ltd. Qty.

Ocean (IMDG): UN1993, Flammable liquid n.o.s. (contains diacetone alcohol & ethyl acetate), Class 3, PG III, MFAG#3-07
Quarts and less: UN1993, Flammable liquid n.o.s. (contains diacetone alcohol & ethyl acetate), Class 3, PG III, Limited Quantities or Ltd. Qty.

Air (IATA): UN1993, Flammable liquid n.o.s. (contains diacetone alcohol & ethyl acetate), Class 3, PG III, ERG#128

SECTION 15 – REGULATORY INFORMATION

Regulatory Data

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<td>TSCA Inventory</td>
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<td>CERCLA RQ</td>
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<td>RCRA Code</td>
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California Proposition 65

WARNING: This product can expose you to chemicals including Methyl Isobutyl Ketone, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

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