

MATERIAL SAFETY DATA SHEET

MSDS 0004

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME		HMIS CODES	
RectorSeal No. 7		Health	2
		Flammability	3
		Reactivity	0
PRODUCT CODES		PPI	B
17432			
CHEMICAL FAMILY			
Organic			
USE			
Pipe Thread Sealant			
MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.	
The RectorSeal Corporation		Chemtrec 24 Hours	
2601 Spenwick Drive		(800)424-9300 USA	
Houston, Texas 77055 USA		001-527-3887 International	
DATE OF VALIDATION		TECHNICAL SERVICE TELEPHONE NO.	
September 3, 2011		(800)231-3345 or (713)263-8001	
DATE OF PREPARATION			
September 3, 2011			

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

Pictogram: Flammable, Harmful / Irritant

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

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Classification according to EU Directives 67/548/EEC or 1999/45/EC  
For the full text of the R phrases mentioned in this Section, see Section 16  
Symbol(s) Xi - Irritant  
F - Highly flammable  
R -phrase(s)  
R11 - Highly flammable  
R36 - Irritating to eyes  
R66 - Repeated exposure may cause skin dryness or cracking  
R67 - Vapors may cause drowsiness and dizziness  
R-code(s) F;R11 - Xi;R36 - R66 - R67  
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#### 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  
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INGREDIENT: Diacetone Alcohol

PERCENTAGE BY WEIGHT: --

CAS NUMBER: 123-42-2

EC# : 204-626-7  
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INGREDIENT: Ethyl Acetate

PERCENTAGE BY WEIGHT: --

CAS NUMBER: 141-78-6

EC# : 205-500-4

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INGREDIENT: Methyl Isobutyl Ketone  
PERCENTAGE BY WEIGHT: --  
CAS NUMBER: 108-10-1  
EC# : 203-550-1  
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Section 4 -- FIRST AID MEASURES

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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.  
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Section 5 -- FIRE FIGHTING MEASURES

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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.  
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Section 6 -- ACCIDENTAL RELEASE MEASURES

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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.  
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Section 7 -- HANDLING AND STORAGE

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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.  
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Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

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INGREDIENT                      UNITS  
Diacetone Alcohol  
    ACGIH TLV            50 ppm  
    OSHA PEL             50 ppm  
Ethyl Acetate  
    ACGIH TLV            400 ppm  
    OSHA PEL             400 ppm  
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Methyl Isobutyl Ketone  
ACGIH TLV 50 ppm  
OSHA PEL 100 ppm

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  
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BOILING POINT: 322 F (161 C) @ 760mm Hg  
SPECIFIC GRAVITY (H2O = 1): 1.46  
VAPOR PRESSURE (mm Hg): 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 (280 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  
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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.

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Section 11 -- TOXICOLOGY INFORMATION  
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CHRONIC HEALTH HAZARDS

No ingredients in this product is an IARC, NTP or OSHA Lister carcinogen.

TOXICOLOGY DATA

Ingredient Name

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Diacetone Alcohol

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

Ethyl Acetate

Oral rat LD50: 5620 mg/kg  
Inhalation rat LC50: 200 gm/m3  
Skin rabbit LD50: > 20 ml/kg

Methyl Isobutyl Ketone

Oral rat LD50: 2080 mg/kg  
Skin rabbit > 20 mL/kg; irritation eye rabbit

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Section 12 -- Ecological Information  
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ECOLOGICAL DATA

Ingredient Name  
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Diacetone Alcohol

Food Chain Concentration Potential	N/A
WATERFOWL TOXICITY	N/A
BOD	N/A
AQUATIC TOXICITY	N/A

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

Methyl Isobutyl Ketone

Food Chain Concentration Potential	N/A
WATERFOWL TOXICITY	N/A
BOD	N/A
AQUATIC TOXICITY	N/A

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Section 13 -- DISPOSAL CONSIDERATIONS  
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Waste Classification: RCRA Hazardous Waste, D001

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.

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Section 14 -- TRANSPORTATION INFORMATION  
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DOT: UN1993, Flammable liquid n.o.s. (contains diacetone alcohol & ethyl acetate ), Class 3, PG III, ERG#128

Quarts and less: Consumer Commodity, ORM-D

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

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Section 15 -- REGULATORY INFORMATION  
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REGULATORY DATA

Ingredient Name  
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Diacetone Alcohol

SARA 313	N/A
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Ethyl Acetate

SARA 313	N/A
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	U112

Methyl Isobutyl Ketone

SARA 313	N/A
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	U161

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Section 16 -- OTHER INFORMATION  
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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