

## MATERIAL SAFETY DATA SHEET

MSDS 0546

## Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

## HMIS CODES

PRODUCT NAME	Health	1
RectorSeal Hi-Temp 100% RTV Silicone Sealant	Flammability	1
	Reactivity	1

PRODUCT CODES	PPI	B
57500		

## CHEMICAL FAMILY:

Organic/Inorganic

## USE

RTV Silicone Sealant

## MANUFACTURER'S NAME

The RectorSeal Corporation  
2601 Spenwick Drive  
Houston, Texas 77055 USA

## EMERGENCY TELEPHONE NO.

Chemtrec 24 Hours  
(800) 424-9300

## DATE OF PREPARATION

November 20, 2002

## TECHNICAL SERVICE TELEPHONE NO.

(800) 231-3345

## Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
2	4253-34-3	Methyltriacetoxysilane	
		ACGIH TLV	10 ppm
		OSHA PEL	10 ppm
2	17689-77-9	Ethyltriacetoxysilane	
		ACGIH TLV	10 ppm
		OSHA PEL	10 ppm
10	7631-86-9	Silica	
		ACGIH TLV	10 mg/m <sup>3</sup>
		OSHA PEL	6 mg/m <sup>3</sup>

COMMENT: TVL for acetoxysilane 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.

## Section 3 -- HAZARDS IDENTIFICATION

## 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.

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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**: 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.

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#### Section 5 -- FIRE FIGHTING MEASURES

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FLASH POINT	LEL	UEL
None	N/D	N/D

##### 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

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## Section 6 -- ACCIDENTAL RELEASE MEASURES

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Scrape up spills  
To prevent footing hazard. Avoid flushing into sewers, drains, waterways and  
soil. Wear protective clothing during clean up.

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## Section 7 -- HANDLING AND STORAGE

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**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 302F(150C) 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.**

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## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

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**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):** Acceptable.

**OTHER:** N/A

**PROTECTIVE GLOVES:** Coveralls recommended.

**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.

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## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

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**BOILING POINT:** 212 F (100 C) @ 760mm Hg

**SPECIFIC GRAVITY (H2O = 1):** 1.04

**VAPOR PRESSURE (mm Hg):** < 5mm Hg

**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

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Section 10 -- STABILITY AND REACTIVITY

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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.

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Section 11 -- TOXICOLOGY INFORMATION

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CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

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TOXICOLOGY DATA

Ingredient Name

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Methyltriacetoxysilane

Oral-Rat LD50:2060 mg/kg

Inhalation-Rat LC50:N/D

Ethyltriacetoxysilane

Oral-Rat LD50:N/D

Inhalation-Rat LC50:N/D

Silica

Oral-Rat LD50:N/D

Inhalation-Rat LC50:N/D

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Section 12 -- Ecological Information

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ECOLOGICAL DATA

Ingredient Name

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Methyltriacetoxysilane

FOOD CHAIN CONCENTRATION POTENTIAL N/D

WATERFOWL TOXICITY N/D

BOD N/D

AQUATIC TOXICITY N/D

Ethyltriacetoxysilane

FOOD CHAIN CONCENTRATION POTENTIAL N/D  
 WATERFOWL TOXICITY N/D  
 BOD N/D  
 AQUATIC TOXICITY N/D

Silica

FOOD CHAIN CONCENTRATION POTENTIAL N/D  
 WATERFOWL TOXICITY N/D  
 BOD N/D  
 AQUATIC TOXICITY N/D

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 Section 13 -- DISPOSAL CONSIDERATIONS  
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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.

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 Section 14 -- TRANSPORTATION INFORMATION  
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DOT: Non-Regulated

OCEAN (IMDG): Non-Regulated

AIR (IATA): Non-Regulated

WHMIS (CANADA): Non-Regulated

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 Section 15 -- REGULATORY INFORMATION  
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REGULATORY DATA

Ingredient Name

Methyltriacetoxysilane

SARA 313 No  
 TSCA Inventory Yes  
 CERCLA RQ N/A  
 RCRA Code N/A

Ethyltriacetoxysilane

SARA 313 Yes  
 TSCA Inventory Yes  
 CERCLA RQ 1000 lbs.  
 RCRA Code N/A

Silica

SARA 313 Yes  
 TSCA Inventory Yes  
 CERCLA RQ 100 lbs.

RCRA Code      N/A

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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