

MATERIAL SAFETY DATA SHEET

MSDS 0546

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	RectorSeal Hi-Temp 100% RTV Silicone Sealant	HMIS CODES	
		Health	1
		Flammability	1
		Reactivity	1
PRODUCT CODES	57500	PPI	B
CHEMICAL FAMILY:	Organic/Inorganic		
USE	RTV Silicone Sealant		
MANUFACTURER'S NAME	The RectorSeal Corporation	EMERGENCY TELEPHONE NO.	
	2601 Spenwick Drive	Chemtrec 24 Hours	
	Houston, Texas 77055 USA	(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/m3
		OSHA PEL	6 mg/m3

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.

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

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

Section 6 -- ACCIDENTAL RELEASE MEASURES

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.

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 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.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

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

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 listed carcinogen.

TOXICOLOGY DATA

Ingredient Name

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

Section 12 -- Ecological Information

ECOLOGICAL DATA

Ingredient Name

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

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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,  
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information: (713) 263-8001