

SILICONES UNLIMITED, INC.
MATERIAL SAFETY DATA SHEET

SILICONES UNLIMITED 5005 HIGH TEMPERATURE RED SILICONE SEALANT

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's name: Silicones Unlimited, Inc.
336-764-5232

Prepared by: J. E. Thompson Date: 6/18/02

Generic Description: Silicone Elastomer

Physical Form: Paste

Odor: Acetic acid odor

NFPA Profile: Health 1 Flammability 1 Reactivity 0

Note: NFPA = National Fire Protection Association

SECTION 2 - OSHA HAZARDOUS COMPONENTS

CAS NO.	INGREDIENT	WT %	EXPOSURE LIMITS					
			TWA		STEL		Ceiling	
			ppm	Mg/m ³	ppm	Mg/m ³	ppm	Mg/m ³
4253-34-3	Methyltriacetoxysilane	2	See acetic acid comment below					
17689-77-9	Ethyltriacetoxysilane	2	See acetic acid comment below					
7631-86-9	Silica, amorphous	10	OSHA	20 b	80 c	-	-	-
			NIOSH	-	6	-	-	-
			ACGIH	-	-	-	-	-
			CANADA	-	2, 5 a	-	-	-

Comments: a. CANADA – Respirable mass; Total mass respectively. b. OSHA – PEL table Z-3: Millions of particles per cubic foot of air. c. OSHA – PEL Table Z-3: 80 mg/m³. Under normal conditions of use no respirable silica particles should be released from this product. Acetic acid is formed on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

SECTION 3 - EFFECTS OF OVEREXPOSURE

Acute Effects

Eye: Direct contact irritates moderately with redness and swelling.

Skin: A single short exposure (less than 24 hours) may irritate. Repeated prolonged contact (24 to 48 hours) may irritate moderately.

Inhalation: Vapor overexposure may irritate eyes, nose and throat.

Oral: Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may cause digestive discomfort.

Repeated Exposure Effects

Skin: None Known.

Inhalation: None Known.

Oral: None Known

Special Hazards

This material contains the following components with the special hazards listed below.

Carcinogens None Known

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<u>Teratogens</u>	None Known
<u>Mutagens</u>	None Known
<u>Reproductive Toxins</u>	None Known
<u>Sensitizers</u>	None Known

Comments: When heated to temperatures above 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.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product.

SECTION 4 - FIRST AID MEASURES

Eyes: Immediately flush with water for 15 minutes. Get medical attention.

Skin: Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

Inhalation: Remove to fresh air.

Oral: No first aid should be needed.

Comments: Treat according to person's condition and specifics of exposure.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point (Closed Cup): Not Applicable - Solid

Autoignition Temperature: Not Determined

Flammability Limits in Air: Not Determined

Extinguishing Media: Carbon Dioxide (CO₂). Water. Water fog (or spray). Dry chemical. Foam.

Unsuitable Extinguishing Media: None

Fire Fighting Procedures: Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. If large amount is involved, evacuate area.

Unusual Fire Hazards: None

Hazardous Decomposition Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silicon dioxide, Carbon Oxides, and traces of incompletely burned carbon compounds, Formaldehyde.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Containment/Clean-up: Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Scrape up and contain for salvage or disposal. Observe all personal protective equipment recommendations described in Sections 5 and 8. Local, state, and federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

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SECTION 7 - HANDLING AND STORAGE

Handling:	No special precautions.
Storage:	Keep container closed and store away from water or moisture.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Local Exhaust: Recommended
General Ventilation: Recommended

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection, safety glasses as a minimum.
Skin: Washing at mealtimes and end of shift is adequate.
Suitable Gloves: No special precautions needed.
Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.
Suitable Respirator: Organic Vapor / Dust / Mist Type.

Personal Protective Equipment for Spills

Eyes: Use proper protection, safety glasses as a minimum.
Skin: Washing at mealtimes and end of shift is adequate.
Inhalation / Suitable Respirator: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.
Precautionary Measures: Avoid eye contact. Avoid breathing vapor. Keep container closed. Use reasonable care.

Comments: Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines (see Section 2) or use respiratory protection.

Note: These precautions are for room temperature handling. Use at elevated temperature, or aerosol / spray applications may require added precautions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Paste
Color: Depends on product color
Odor: Acetic Acid
Specific Gravity (at 77°F/25°C): 1.03
Viscosity: Not Applicable
Freezing / Melting Point: Not Determined
Boiling Point (at 760 mm Hg): Not Applicable
Vapor Pressure (at 77°F/25°C): Not Applicable
Vapor Density: Not Applicable
Solubility in Water (%): None
pH: Not Applicable
Volatile Content: Not Applicable

Note: The above information is not intended for use in preparing product specifications.

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SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable.
Hazardous Polymerization: Hazardous polymerization will not occur.
Conditions to Avoid: None.
Materials to Avoid: Oxidizing material can cause a reaction.
Comments: Water, moisture, or humid air can cause hazardous vapors to form as described in Section 2.

SECTION 11 - TOXICOLOGICAL INFORMATION

Complete information not yet available.

SECTION 12 - ECOLOGICAL INFORMATION

Complete information not yet available.

SECTION 13 - DISPOSAL INFORMATION

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No.
Federal Hazardous Waste Code: Not Applicable.
Characteristic Waste: Ignitable: Not Applicable.
Corrosive: Not Applicable.
Reactive: Not Applicable.
TCLP: Not Applicable.
State or local laws may impose additional regulatory requirements regarding disposal.

SECTION 14 - TRANSPORT INFORMATION

DOT Information (49CFR 172.101)
Proper Shipping Name: Not Applicable.
Hazard Technical Name: Not Applicable
Hazard Class: Not Applicable.
UN / NA Number: Not Applicable.
Packing Group: Not Applicable.

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SECTION 15 - REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances: None.

Section 304 CERCLA Hazardous Substances: None.

Section 312 Hazard Class:

Acute: Yes

Chronic: No

Fire: No

Pressure: No

Reactive: No

Section 313 Toxic Chemicals: None present or none present in regulated quantities.

Supplemental State Compliance Information:

California:

Warning: This product contains the following chemicals listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer: None Known.

Warning: This product contains the following chemicals listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause birth defects or other reproductive harm: None Known.

Massachusetts:

7631-86-9	10%	Silica, amorphous
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New Jersey:

7631-86-9	10%	Silica, amorphous, fumed, #1655
70131-67-8	84%	Polydimethylsiloxane, hydroxy terminated
4253-34-3	2%	Methyltriacetoxysilane
17689-77-9	2%	Ethyltriacetoxysilane

Pennsylvania:

7631-86-9	10%	Silica, amorphous
70131-67-8	84%	Polydimethylsiloxane, hydroxy terminated

SECTION 16 - OTHER INFORMATION

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.