

**SILICONES UNLIMITED, INC.  
MATERIAL SAFETY DATA SHEET**

**SILICONES UNLIMITED 5007 SILICONE SEALANT, COLORS**

SECTION 1 - GENERAL INFORMATION

Manufacturer's name: Silicones Unlimited, Inc.  
 Phone: (336)764-5232  
 Prepared by: J. E. Thompson Date: 6/18/02  
 Generic Description: Silicone Elastomer  
 Physical Form: Paste  
 Odor: Mild  
 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 <sup>3</sup>	ppm	Mg/m <sup>3</sup>	ppm	Mg/m <sup>3</sup>	
22984-54-9	Methyl tris (methylethylketoxime) silane	3-5	See methylethylketoxime comments						
2224-33-1	Vinyl tris (methylethylketoxime) silane	0-1	See methylethylketoxime comments						
7631-86-9	Silica, amorphous	10	OSHA	20 b	80 c	-	-	-	-
			NIOSH	-	6	-	-	-	-
			ACGIH	-	-	-	-	-	-
			CANADA	-	2, 5 a	-	-	-	-
1317-65-3	Calcium Carbonate (Limestone)	35-50	OSHA	-	15, 5 a	-	-	-	-
			NIOSH	-	10,5 a	-	-	-	-
			ACGIH	-	10 d	-	-	-	-
			CANADA	-	10,5 a	-	-	-	-

Comments: a. OSHA, NIOSH, 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/m<sup>3</sup>. d. ACGIH – Inhalable (total) particulate matter containing no asbestos and < 1% crystalline silica. Under normal conditions of use no respirable silica particles should be released from this product. As a by-product of cure up to 4% methylethylketoxime (MEKO, CAS No. 96-29-7) is formed on contact with water or humid air. Provide adequate ventilation to control exposures within the following guidelines: Vendor guideline TWA: 3ppm, STEL: 10 ppm; AIHA WEEL TWA: 10 ppm.

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SECTION 3 - EFFECTS OF OVEREXPOSURE  
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Acute Effects:

Eye: Direct contact irritates slightly 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. Product contains oximes which are possible skin sensitizers.  
Inhalation: Vapor overexposure may cause drowsiness, injure blood, liver and 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 injure slightly.

Repeated Exposure Effects:

Skin: Product contains oximes which are possible skin sensitizers.  
Inhalation: Vapor overexposure may cause drowsiness, injure blood, liver and 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 injure slightly.

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

Carcinogens: None Known                      Teratogens: None Known  
Mutagens: None Known                        Reproductive toxins: None Known  
Sensitizers:

CAS NO.	INGREDIENT	WT %	
22984-54-9	Methyl tris (methylethylketoxime) silane	3-5	Possible skin sensitizer.
2224-33-1	Vinyl tris (methylethylketoxime) silane	0-1	Possible skin sensitizer.

Comments: Methylethylketoxime (MEKO, CAS No. 96-29-7) is formed upon contact with water or humid air. Male rodents exposed to MEKO vapor throughout their lifetime developed liver cancer. Additional testing is planned by the MEKO supplier to determine any relevance to humans. Until more data is known, exposure levels should be maintained as low as achievable.

This product contains polydimethylsiloxane (silicone) and when heated to temperatures above 150°C in the presence of air, silicones 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 on similar compositions, component data and/or expert review of the product. Overexposure to any chemical may result in enhancement of preexisting adverse medical conditions and allergic reactions.

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SECTION 4 - FIRST AID MEASURES  
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Eyes: Immediately flush with water for 15 minutes. Get medical attention.  
Skin: Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation develops or ill effects persist.  
Inhalation: Remove to fresh air. If ill effects persist get medical attention.  
Oral: Get medical attention.  
Comments: Treat according to person's condition and specifics of exposure.

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SECTION 5 - FIRE FIGHTING MEASURES  
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Flash Point (method used): Not Applicable – Solid  
Autoignition Temperature: Not Determined  
Flammability Limits in Air (%): Not Determined  
Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.  
Fire Fighting Procedures: Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.  
Unusual Fire Hazards: None  
Hazardous Decomposition Products:  
Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: metal oxides, silicone dioxide, carbon oxides and traces of incompletely burned carbon compounds, nitrogen oxides, formaldehyde.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES  
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Containment / Cleanup: Observe all personal protective equipment recommendations described in sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents, or detergents. Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Local, state and federal reporting requirements may apply to spills or releases of this material into the environment.

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SECTION 7 - HANDLING AND STORAGE.  
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Handling: Use with adequate ventilation. Product evolves methylethylketoxime (MEKO) when exposed to water or humid air. Provide adequate ventilation to control MEKO within exposure guidelines (see Section 2) or use respiratory protection.  
Storage: Keep container closed and store away from water or moisture.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION.  
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Engineering Controls

Local Exhaust: Recommended

General Ventilation: Recommended

Personal Protective Equipment for Routine Handling.

Eyes: Use proper protection, safety glasses as a minimum.

Skin: Wash at mealtimes and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush effected areas with cool water. Chemical protective gloves are recommended.

Suitable Gloves: Silver Shield ® . 4h®. Butyl rubber. Natural rubber. Neoprene rubber. Nitrile rubber.

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: Self-contained breathing apparatus (SCBA) or other supplied-air respirator.

Personal Protective Equipment for Spills.

Eyes: Use full face respirator.

Skin: Wash at mealtimes and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush effected areas with cool water. Chemical protective gloves are recommended.

Inhalation/

Suitable Respirator: Self-contained breathing apparatus (SCBA) or other supplied-air respirator.

Precautionary measures: Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally.

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

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

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES.  
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Physical State: Solid (Paste)  
Boiling point (at 760 mm Hg): Not Applicable  
Specific Gravity (at 77°F/25°C): 1.42  
Melting Point: Not Determined  
Solubility in Water (%): Less than 0.1  
% Volatile by Volume: Less than 5  
Evaporation Rate: Not Applicable  
pH: Not Applicable  
Vapor Pressure (at 77°F/25°C): Not Applicable  
Vapor Density (air=1 at 77°F/25°C): Not Applicable  
Odor: Oxime

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

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SECTION 10 - STABILITY AND REACTIVITY

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Chemical Stability: Stable  
Hazardous Polymerization: Will not occur  
Conditions to Avoid: None  
Materials to Avoid): Oxidizing material can cause a reaction. Water, moisture, or humid air causes curing and the liberation of methylethylketoxime vapors as described in Section 2.

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SECTION 11 - TOXICOLOGICAL INFORMATION

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Complete information not yet available.

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SECTION 12 - ECOLOGICAL INFORMATION

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Complete information not yet available.

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SECTION 13 - DISPOSAL INFORMATION

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RCRA Hazard Class (40cfr 261)

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: NO. Corrosive: NO. Reactive: NO.

TCLP: Not Applicable

State or local laws may impose additional regulatory requirements regarding disposal.

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SECTION 14 - TRANSPORT INFORMATION

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DOT information (49cfr 172.101)

Proper Shipping Name: Not Applicable

Hazard Technical Name: Not Applicable

Hazard Class: Not Applicable

UN/NA Number: None

Packing Group: Not Applicable

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SECTION 15 - REGULATORY INFORMATION

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Contents of this MSDS comply with 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: Yes

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 chemical(s) 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 chemical(s) 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.

Pennsylvania:	7631-86-9	Silica, amorphous
	70131-67-8	Polydimethylsiloxane, hydroxy terminated
	22984-54-9	Methyl tris (methylethylketoxime) silane
Massachusetts:	7631-86-9	Silica, amorphous
	70131-67-8	Polydimethylsiloxane, hydroxy terminated
New Jersey:	63148-62-9	Polydimethylsiloxane
	22984-54-9	Methyl tris (methylethylketoxime) silane
	1317-65-3	Calcium Carbonate

This information is 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.