

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME : SEALANT - SILICONE LIQUID GASKET**

### 1. Product and Company Identification

Product name: Silicone Liquid Gasket Sealant  
Synonyms: None  
Item Numbers: 085-040-816

#### European Contact Details

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Chemtrec: 1-800-424-9300

### 2. Hazards Identification

#### EMERGENCY OVERVIEW

White paste that reacts with moisture in air, slowly generates acetic acid. Avoid inhalation and contact with eyes, skin and clothing.

For short and long term exposure effects, refer to Section 11 Toxicological data.

Eye Effects: Uncured product or its vapors may cause irritation.

Skin Effects: Prolonged or repeated contact with uncured product may cause skin irritation.

Ingestion/Oral Effects: Unlikely under normal conditions of usage. May cause gastric irritation.

Inhalation Effects: Uncured product or its vapors cause may cause minor irritation. When heated to temperatures exceeding 150 °C in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limits. Refer to Section 8.

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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May aggravate pre-existing eye, skin and respiratory conditions.

NFPA Hazard codes		HMIS Hazard codes		Rating System
Health	1	Health	2	0 = No Hazard
Flammability	1	Flammability	1	1 = Slight Hazard
Instability	1	Reactivity	1	2 = Moderate Hazard
				3 = Serious Hazard
				4 = Severe Hazard

### 3. Composition/Information on Ingredients

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Silicone Resin Proprietary	60-100	Not applicable	Not applicable	Not applicable
Silica, amorphous (fumed)	5-10	7631-86-9	Not applicable	Not applicable
Distillates (petroleum) hydrotreated middle	5-10	64742-46-7	Not applicable	Not applicable
Ethyltriacetoxysilane	1-5	17689-77-9	Not applicable	Not applicable
Methyltriacetoxysilane	1-5	4253-34-3	Not applicable	Not applicable
Titanium dioxide	1-5	13463-67-7	Not applicable	Not applicable

\*Hazard class & Risk phrase. These columns are only completed for ingredients which are classified as hazardous under EU Directive No 1272/2008 (as amended) and are present in sufficient concentration to make the overall substance hazardous. In all other situations, the column will be completed as "Not applicable".

### 4. First Aid Measures

- Eyes:** Flush eye for 15 minutes with copious amounts of water, retracting the eyelids often. Seek medical attention if irritation persists.
- Skin:** Remove contaminated clothing. Wipe off paste with paper towel or cloth. Cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.
- Ingestion/Oral:** If swallowed do not induce vomiting. Small amounts in the mouth may be washed out with water. Seek medical attention.
- Inhalation:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.
- Other Information:** None.

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### 5. Firefighting Measures

Extinguishing Media:	Dry chemical, carbon dioxide or foam.
Fire and Explosion Hazard:	None.
Special Protective Equipment for Firefighters:	Firefighters should wear NIOSH approved self contained breathing apparatus if there is the potential to exceed exposure limits.
Hazardous Decomposition	Silicon and Carbon Oxides may be produced when exposed to water or moisture. May begin to evolve formaldehyde at temperatures of 150 °C.

For Flammability Properties - refer to Section 9.

### 6. Accidental Release Measures

Remove all sources of ignition. Wear appropriate protective equipment (See Section 8).

Scrape up as much material as possible. Spilled product will solidify. Store in a closed container until ready for disposal. Do not allow spilled product to enter drains or open waters.

### 7. Handling and Storage

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling and before meals and breaks. Do not eat, drink, smoke, apply cosmetics or store personal items in work and storage areas.

Storage: Store below 32 °C in a dry, well ventilated area in tightly closed containers.

### 8. Exposure Controls/Personal Protection

#### Exposure Limits:

Ingredient	ACGIH - TLV	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Silica, amorphous (fumed)	6 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA	Not applicable
Titanium dioxide	10 mg/m <sup>3</sup> TWA	15 mg/m <sup>3</sup> TWA total dust	Not applicable

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### Personal Protection:

- Engineering Measures: Ensure adequate ventilation, especially in confined areas.
- Respiratory Protection: Firefighters should wear NIOSH approved self contained breathing apparatus if there is the potential to exceed exposure limits.
- Hand/Skin Protection: Wear impervious gloves and avoid prolonged skin contact. Long sleeved shirts and long pants are recommended.
- Eye/Face Protection: Approved safety glasses with side shields or chemical splash goggles.
- Hygiene Measures: Wash hands after use and before handling food or applying cosmetics. Do not smoke in the immediate area.
- Other/General Protection: Use only in a well ventilated area. Avoid breathing vapours.

### 9. Physical and Chemical Properties

Appearance and Odour	White Paste	Boiling Point	No data available	°C/°F
pH (as supplied)	No data available	Freezing Point	No data available	°C/°F
Solubility in Water	Not soluble	Auto Ignition	No data available	°C/°F
Volatile Content by Volume	3.08% or 32 grams/litre	Flash Point	> 93 / 200	°C/°F
Specific Gravity	1.01 @ 20 °C			
Vapour Pressure (mbar)	0.13 x 10 <sup>-2</sup> @ 20 °C	Vapour Pressure (Torr)	0.1 x 10 <sup>-2</sup> @ 20 °C	

### 10. Stability and Reactivity

- Stability: Product is stable under normal storage and handling conditions.
- Material/Conditions to Avoid: Avoid exposure to moisture or temperatures above 150 °C.
- Hazardous Decomposition: Acetic acid, Silicon Oxide and Carbon Oxide are slowly released upon contact with moisture. May emit formaldehyde when exposed to temperatures above 150 °C.
- Hazardous Polymerisation: Will not occur

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### 11. Toxicological Information

For a comprehensive description for the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation refer to Section 2 Hazards Identification.

#### Animal data:

LD50 value: No data available. See Additional Toxicological Information.

LC50 value: No data available. See Additional Toxicological Information.

#### Carcinogenicity:

Titanium dioxide is listed as carcinogenic to humans (Group 2B) by IARC. Titanium dioxide is listed as "known to be carcinogenic" by OSHA.

#### Additional Toxicological Information

Hazardous components	Health Effects / Target Organs
Silicone Resin Proprietary	No target organs
Silica, amorphous (fumed)	Nuisance dust
Distillates (petroleum) hydrotreated middle	Irritant
Ethyltriacetoxysilane	No target organs
Methyltriacetoxysilane	Allergen, irritant
Titanium dioxide	irritant, Respiratory

### 12. Ecological Information

No specific studies have been conducted on the ecotoxicity or environmental fate of this material. However, commonly available data indicates that uncontrolled releases to soil, groundwater, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases.

Releases of volatile components to the atmosphere are not believed to result in significant ecological consequences provided such releases are within the exposure levels specified in this document.

### 13. Disposal Considerations

If this product becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Dispose in accordance with EPA and local government regulations. Cured rubber can be landfilled following EPA and local government regulations.

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### 14. Transport Information

This product is not classified as dangerous under transport regulations.

PARAMETER	EUROPEAN	CANADIAN TDG	UNITED STATES DOT
Proper Shipping Name	Not applicable	Not applicable	Not applicable
Hazard Class	Not applicable	Not applicable	Not applicable
Identification Number	Not applicable	Not applicable	Not applicable
Shipping Label	Not applicable	Not applicable	Not applicable

### 15. Regulatory Information

#### European Regulatory Information

This product has been classified in accordance with EU Regulation No 1272/2008 (as amended) on the Classification, Labelling and Packaging of Substances and Mixtures.

Classified as dangerous to supply: No.

Risk Phrases: Not applicable.

Safety Phrases: Not applicable.

Symbols: Not applicable.

#### United States Regulatory Information

All materials contained in this product are on the US Toxic Substances Control Act (TSCA).

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 and 40 CFR Part 372.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

#### Canadian Regulatory Information

WHMIS Classification: D2A, D2B.

All ingredients in this product are included in the Canadian DSL.

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### 16. Other Information

This MSDS is compiled in accordance with ANSI Z400.1 and Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Sources of information for this data sheet:

Loctite Material Safety Data Sheet for Superflex(R) White RTV Silicone Adhesive Sealant. Issue date: May, 2007.

### Glossary:

ACGIH - American Conference of Governmental Industrial Hygienists; ANSI - American National Standards Institute; Canadian TDG - Canadian Transportation of Dangerous Goods; CAS - Chemical Abstracts Service; Chemtrec - Chemical Transportation Emergency Center (US); DSL - Domestic Substances List; EEC - European Economic Community; EH40 (UK) - HSE Guidance Note EH40 Occupational Exposure Limits; EPA - Environmental Protection Agency; EPCRA - Emergency Planning and Community Right-to-Know Act; EU - European Union; HMIS - Hazardous Material Information Service; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OSHA - Occupational Safety and Health Administration, US Department of Labour; PEL - Permissible Exposure Limit; RCRA - Resource Conservation and Recovery Act; SARA (Title III) - Superfund Amendments and Reauthorization Act; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self-Contained Breathing Apparatus; SPI - Society of Plastics Industry, Inc.; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-Weighted Average; US DOT - US Department of Transportation; WHMIS - Workplace Hazardous Materials Information System.

### Revisions:

Feb. 2009 - Data Sheet updated to reflect the latest supplier safety information.

June 2010 - Data Sheet updated to reflect current regulatory information.

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