

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product Name: SILICONE SEALANT

Chemical Name: N/A

Chemical Formula: Silicone Sealant

Supplier name and address:

G.F. THOMPSON CO. LTD.
620 Steven Court, Unit #11
Newmarket, Ontario
L3Y 6Z2
Tel.: 905-898-2557

Manufacturer name and address:

Refer to supplier

Emergency Tel. #: (905) 898-2557

WHMIS Classification: D21A, D2B

SECTION II – COMPOSITION / INFORMATION ON INGREDIENTS

<u>MATERIAL</u>	<u>CAS. NO.</u>	<u>%</u>	<u>LD50(oral-rat)</u>	<u>LC50(inhalation-rat)</u>
Amorphous Silica	7631-86-9	10.0 - 30.0	3,160 mg/kg	>0.139 mg/L (4 hr)
Methyl Triacetoxysilane	4253-34-3	1.0 - 5.0	2,060 mg/kg	not available
Ethyl Triacetoxysilane	17689-77-9	1.0 - 5.0	1,460 mg/kg	not available
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1.0	1,540 mg/kg	not available
Black Sealant: Carbon Black	1333-86-4	0.1 - 1.0	not available	not available

TSCA Inventory Status:

Chemical components listed on TSCA inventory except as exempted.

NFPA Profile:

Health 2, Flammability 1, Reactivity 0

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.

State Substance List:

This product contains a listed substance(s) that appears on one or more of the Substance Lists for Pennsylvania, Massachusetts and New Jersey: amorphous silica (CAS# 7631-86-9); methyl triacetoxysilane (CAS# 4253-34-3); ethyl triacetoxysilane (CAS# 17689-77-9); dimethylsiloxane, hydroxy terminated (CAS# 70131-67-8); and carbon black (CAS# 1333-86-4).

California Proposition 65 List:

None known.

Volatile Organic Content:

32 grams per litre (0.27 lb/gallon), 3.11% by weight (meets California Air Resources Board VOC standard for sealants and caulking compounds 12/31/2002)

WHMIS Classification:

D2A, D2B

Domestic Substance List:

Chemical components listed on DSL except as exempted.

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SECTION III - PHYSICAL DATA

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Physical State:	Paste
Odour and Appearance:	Acetic acid / thixotropic sealant
Odour Threshold:	Not available
Specific Gravity:	1.03
Vapour Pressure:	Not available
Vapour Density:	Not available
Evaporation Rate:	Not available
Boiling Point:	Not available
Freezing Point:	Not available
pH:	Not available
Coeff. Oil/Water Distribution:	Not available
Volatile Organic Compound (VOC):	32g/l, (0.27lb/gallon), 3.17% by weight

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SECTION IV - FIRE AND EXPLOSION DATA

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Flammable Conditions:	Avoid direct sources of heat or ignition in uncured state.
Extinguishing Media:	Carbon dioxide, dry chemical, water fog or foam. Water can be used to cool fire exposed containers.
Fire Fighter Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan.
Flash Point:	Not applicable
Flammability Limits:	Lower Explosion Limit – not available Upper Explosion Limit – not available
Autoignition Temperature:	Not available
Hazardous Decomposition Products:	Carbon oxides, silicone dioxide, metal oxides, formaldehyde, and traces of incompletely burned carbon products.
Sensitivity:	Impact: None Static: None

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SECTION V - HEALTH HAZARDS AND TOXICOLOGICAL DATA

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ROUTES OF ENTRY INTO THE BODY (ACUTE EFFECTS):

Eyes:	Direct contact may cause moderate irritation
Skin:	May cause moderate irritation
Inhalation:	Irritates respiratory passages very slightly
Ingestion:	Low ingestion hazard in normal use

WHMIS HAZARD SYMBOL(S):



Effects Of Overexposure:	Acetic acid vapours may irritate eyes, nose and throat. Direct contact with eyes and skin will irritate.
Sensitization:	Not known.
Carcinogenicity:	No ingredients considered by IARC, NTP or OSHA to be carcinogens except in the Black Sealant: Carbon Black (CAS# 1333-86-4): IARC Group 2B – possibly carcinogenic to humans.
Reproductive Toxicity:	Evidence of reproductive effects in laboratory animals when exposed to Octamethylcyclotetrasiloxane (CAS# 556-67-2) by

	inhalation at concentrations of 500 ppm or higher for 70 days prior to mating.
Teratogenicity:	Not known.
Mutagenicity:	Not known.
Synergistic Products:	Not known.

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SECTION VI FIRST AID

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Eyes:	Flush with copious quantities of lukewarm water. Do not attempt to physically remove the solids or gums from the eyes. Seek medical attention immediately.
Skin:	Remove contaminated clothing. Wash thoroughly with warm water and non-abrasive soap. Seek medical attention if you feel ill or a reaction develops.
Inhalation:	Remove to fresh air and provide water. Seek medical attention if you feel ill or a reaction develops.
Ingestion:	No first aid should be needed.

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SECTION VII - REACTIVITY DATA

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Chemical Stability:	Stable.
Incompatible Materials:	Strong oxidizing agents or electrophiles (e.g. ferric chloride). Concentrated acids or bases can degrade the silicone polymer.
Reactive Conditions:	Moisture and incompatible materials.
Hazardous Polymerization:	Will not occur.

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SECTION VIII - PREVENTIVE MEASURES

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Component Exposure Limits:	<p><u>Amorphous Silica (CAS# 7631-86-9)</u>: Although the silica is coated with the silicone sealant observe the particulate limits. OSHA PEL: TWA 15 mg/m³ total dust, 5 mg/m³ respirable fraction. ACGIH TLV: TWA 10 mg/m³ inhalable particulate, 3 mg/m³ respirable particulate.</p> <p><u>Methyl Triacetoxysilane (CAS# 4253-34-3)</u>: Forms acetic acid upon contact with atmospheric moisture. Provide adequate ventilation to control exposures within the following exposure guidelines: ACGIH TLV: TWA 10 ppm, STEL 15 ppm; OSHA PEL: TWA 10 ppm.</p> <p><u>Ethyl Triacetoxysilane (CAS# 17689-77-9)</u>: Forms acetic acid upon contact with atmospheric moisture. Provide adequate ventilation to control exposures within the following exposure guidelines: ACGIH TLV: TWA 10 ppm, STEL 15 ppm; OSHA PEL: TWA 10 ppm.</p> <p><u>Octamethylcyclotetrasiloxane (CAS# 556-67-2)</u>: Provide adequate ventilation to control exposures within the following exposure guidelines: ACGIH TLV: TWA 10 ppm, STEL 15 ppm; OSHA PEL: TWA 10 ppm.</p> <p><u>Black Sealant: Carbon Black (CAS# 1333-86-4)</u>: Although the carbon black is coated with the silicone sealant observe the particulate limits. OSHA PEL and ACGIH TLV: TWA 3.5 mg/m³.</p>
Respiratory:	No respiratory protection should be needed.
Ventilation:	In indoor applications, passive ventilation (opening of doors and

windows) is recommended. Local exhaust as necessary to keep exposure levels within guidelines.

Personal Protective Equipment: Safety glasses with side-protection, impermeable gloves (e.g., neoprene, nitrile, silver shield (R)), coveralls or apron are important in preventing contamination of eyes, skin and clothing. Wash thoroughly after handling.

Containment/Clean Up: Restrict access to the area of the spill. Provide ventilation and protective clothing. Scrape up sealant and place in container for disposal. Clean area as appropriate since silicone materials can represent a slip hazard. Cleaning may require steam or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state, provincial, federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup.

Handling and Storage: Store in an adequately ventilated area under dry conditions between 50°F (10°C) to 77°F (25°C) and keep container tightly sealed when not in use.

Ecological Information

Air: Complete information is not yet available.

Water: Complete information is not yet available.

Soil: Complete information is not yet available.

Waste Disposal: Dispose in accordance with Federal, State / Provincial and local regulations.

Shipping Information: Not subject to DOT, TDG, IMDG Code or IATA Regulations.

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SECTION IX - ADDITIONAL INFORMATION

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The information herein is given in good faith, but no warranty, express or implied, is made. Product users should make independent judgements of the suitability of this information to ensure proper use and to protect the health and safety of employees.

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SECTION X - PREPARATION INFORMATION

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Date Issued: December 01, 2009
Prepared by: G. F. THOMPSON CO. LTD.

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