# **MATERIAL SAFETY DATA SHEET**

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#### **SECTION I - PRODUCT IDENTIFICATION**

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**Product Name:** MASTERS SILICONE SEALANT Silicone Sealant and Adhesive

Supplier name and address:

Manufacturer name and address:

G.F. THOMPSON CO. LTD.

620 Steven Court Newmarket, Ontario

L3Y 6Z2

**Emergency Tel. #:** 

Mon – Fri, 7:30 am to 5:00 pm EST

905-898-2557

800-499-3673 (toll free) **24 hr Emergency Tel:** 

905-252-4793

WHMIS Classification: D2A, D2B

Refer to supplier

### SECTION II - COMPOSITION/ INFORMATION ON INGREDIENTS

<u>Ingredients</u>	CAS. NO.	<u>%</u>	LD50(oral-rat)	LC50(inhalation-rat)
Amorphous Silica	7631-86-9 4253-34-3	7.0 – 13.0 1.0 - 5.0	3,160 mg/kg	>0.139 mg/L (4 hr)
Methyl Triacetoxysilane Ethyl Triacetoxysilane	4233-34-3 17689-77-9	1.0 - 5.0	1600 mg/kg 1,460 mg/kg	not available
Octamethylcyclotetrasiloxane Pigmented sealants may contain:	556-67-2	0.1 - 1.0	1,540 mg/kg	not available
Carbon Black	1333-86-4	0.1 - 1.0	14,400 mg/kg	not available
Titanium Dioxide	13463-67-7	0.1 - 1.0	24,000 mg/kg	not available
Pigment Blue 15	147-14-8	0.1 - 5.0	>10,000 mg/kg	not available
Iron Oxide	1309-37-1	0.1 - 5.0	not available	not available

The ingredients listed above are controlled products as defined in CPR, am. SOR/88-555 or 29 CFR 1910.1200

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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: 1.01

Vapour Pressure:

Vapour Density:

Evaporation Rate:

Boiling Point:

Not available

Not available

Not available

Not available

Not available

Not available

pH (ASTN D1293): 3.2

Acid Reserve, g NaOH/100 g

(CCCR 2001, Sections 43 and 44): 0.17

Coeff. Oil/Water Distribution: Not available

VOC: 30 g/l, <3% by weight

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#### **SECTION IV - FIRE FIGHTING MEASURES**

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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

Auto ignition 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 – HAZARDS IDENTIFICATION

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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. If material is heated or vapour

generated, care should be taken to prevent inhalation. If high vapour

concentrations are attained then central nervous system depression may occur, characterized by drowsiness, dizziness, confusion or loss of coordination.

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. <u>Pigmented Sealants:</u> Although the carbon black (CAS #1333-86-4) is encapsulated by the silicone sealant, prolonged overexposure to carbon black dust causes lung fibrosis. Although the titanium dioxide (CAS # 13463-67-7) is encapsulated by the silicone sealant, prolonged overexposure to titanium dioxide dust causes tightness pain in the chest, coughing and difficulty breathing.

Sensitization: No known applicable information.

Carcinogenicity: No ingredients considered by IARC, NTP or OSHA to be carcinogens

except in the pigmented sealants which may contain: Carbon Black (CAS# 1333-86-4): IARC Group 2B – possibly carcinogenic to humans. Titanium Dioxide (CAS # 13463-67-7); 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. No effects observed in laboratory animals when exposed to

Teratogenicity: No effects observed in laboratory animals when exposed to

Octamethylcyclotetrasiloxane (CAS# 556-67-2) by inhalation at

concentrations up to 700 ppm.

Mutagenicity: No known applicable information. Synergistic Products: No known applicable information.

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# SECTION VI - FIRST AID MEASURES

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: Get medical attention.

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### **SECTION VII – STABILITY AND 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.

# SECTION VIII – EXPOSURE CONTROL / PERSONAL PROTECTION

Component Exposure Limits:

Amorphous Silica (CAS# 7631-86-9): Although the silica is coated with the silicone sealant observe the particulate limits. OSHA PEL: TWA 80 mg/m³ / SiO<sub>2</sub> NIOSH REL: TWA 6 mg/m³.

Methyl Triacetoxysilane (CAS# 4253-34-3): 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. Ethyl Triacetoxysilane (CAS# 17689-77-9): 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. Octamethylcyclotetrasiloxane (CAS# 556-67-2): Provide adequate ventilation to control exposures within the following exposure guidelines: ACGIH TLV: TWA 10 ppm, STEL 15 ppm; OSHA PEL: TWA 10 ppm.

<u>Pigmented Sealants: 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. <u>Titanium Dioxide (CAS# 13463-67-7):</u> Although the titanium dioxide is coated with the silicone sealant observe the particulate limits. OSHA PEL: TWA 15 mg/m³. ACGIH TLV: TWA 10 mg/m³.

<u>Iron Oxide: (CAS # 1309-37-1):</u> Although the iron oxide is coated with the silicone sealant observe the particulate limits. OSHA PEL: TWA 10 mg/m³, ACHIH TLV: TWA 5 mg/m³ respirable fraction. <u>Pigment Blue 15 (CAS# 147-14-8):</u> Although the pigment blue 15 is coated with the silicone sealant observe copper dust limits. OSHA PEL: TWA1 mg/m³; ACGIH TLV: TWA 1mg/m³.

Respiratory: Use respiratory protection unless local exhaust ventilation is provided

or exposures are within guidelines.

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

NIOSH/MHSA approved respirator 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, solvents or detergents. Dispose of saturated absorbant 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**

Prepared by: G. F. THOMPSON CO. LTD.

Date Issued: December 1, 2012

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### **SECTION XI - REGULATORY CLASSIFICATION**

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 (40 CFR 355):

<u>None</u>

Section 304 CERCLA Hazardous Substances (40 CFR 302:

None

Section 311 / 312 Hazard Class (40 CFR 370): Acute: Yes;

Chronic: No; Fire: No; Pressure: No; Reactive: No.

Section 313 Toxic Chemicals (40 CFR 372): 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); isoparaffinic hydrocarbon (CAS# 64742-46-7): and may contain carbon black (CAS# 1333-86-4); titanium dioxide (CAS# 13463-67-7); pigment blue 15 (CAS# 147-14-8), and iron

oxide (CAS# 1309-37-1)

California Proposition 65 List: No know applicable information.

Volatile Organic Content: 30 grams per litre, < 3% by weight (Chemically Curing Sealants

and Caulks - CARB Method 310: VOC less water, less exempt

compounds and LVP- VOC's).

Domestic Substance List: Chemical components listed on DSL except as exempted.