

## MATERIAL SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

**Product name:** MASTERS NON-METALLIC COMPOUND

**Product use:** Pipe thread and gasket sealant.

**Chemical family:** Mixture of hydrocarbons, alcohol and silicates.

**Supplier name and address:**

G.F. THOMPSON CO. LTD.

620 Steven Court

Newmarket, Ontario

L3Y 6Z2

**Manufacturer name and address:**

Refer to supplier.

**Emergency Tel.#:** 905-898-2557

**WHMIS CLASS:** B3, D2A, D2B

**HMIS Rating:**

\* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: \*2 Flammability: 2 Reactivity: 0

### SECTION II - INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>wt. %</u>	<u>LC<sub>50</sub> / 4 Hrs (Rat, ihl.)</u>	<u>LD<sub>50</sub> mg/kg</u>	
				<u>(Rat, oral)</u>	<u>(Rabbit, dermal)</u>
Polymerized castor oil	68187-84-8	10 - 30	N/Av	N/Av	N/Av
Castor oil	8001-79-4	10 - 30	N/Av	N/Av	N/Av
n-Butyl alcohol	71-36-3	5 - 10	>8000 ppm	2510 (adult) 790 (young, male)	4200
Silica, quartz	14808-60-7	0.1 - 1.0	N/Av	N/Av	N/Av

### SECTION III - PHYSICAL DATA

**Physical state, odour and appearance:** Light brown paste. Odour of alcohol.

**Freezing / melting point:** 66 - 160°C / 150 - 320°F (emulsion range)

**Evaporation rate (n-Butyl acetate = 1):** N/Av

**Volatile, % by volume:** <50

**Solubility in water:** Insoluble

**pH:** N/Av.

**Vapour pressure (mmHg):** N/Av

**Coefficient of water/oil distribution:** N/Av

**VOC:** 46.9 g/l, 3.4%

**Odour threshold:** N/Av

**Specific gravity:** 1.6

**Boiling point:** N/Av

**Vapour density (Air = 1):** N/Av

**Viscosity:** N/Av

### SECTION IV - FIRE AND EXPLOSION DATA

**Conditions of flammability:** Combustible. Product may be ignited by heat, sparks and flame.

**Flash point (Method):** 47°C / 116.6°F (Closed Cup)

**Auto-ignition temperature:** N/Av

**Upper flammable limit %:** N/Av

**Lower flammable limit %:** N/Av

**Means of extinction:** Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

**Sensitivity to mechanical impact/static discharge:** N/Av.

**Special fire fighting procedures:** Firefighters should wear proper full protective equipment and self-contained breathing apparatus. Move containers from fire area if it can be done without risk. Water spray may only be useful in cooling equipment and containers exposed to heat and flame.

**Unusual fire and explosion hazards:** Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

**Hazardous combustion products:** Carbon oxides, unburned alcohol and other irritating fumes and smoke.

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### SECTION V - REACTIVITY DATA

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**Stability:** Stable under the recommended storage and handling conditions prescribed. Hazardous polymerization will not occur.

**Incompatible materials:** Strong oxidizers (e.g. Chlorine, Peroxides, etc.), acids.

**Conditions of reactivity:** Stable under ambient pressure and temperature. Avoid heat, sparks and flames.

**Hazardous decomposition products:** None known. Refer to Section IV for 'Hazardous combustion products'.

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### SECTION VI - TOXICOLOGICAL PROPERTIES

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**\*\*\*Routes of exposure and acute effects\*\*\***

**Exposure limit:** ACGIH-TLV: n-Butyl alcohol – 20 ppm; Silica, quartz – 0.05 mg/m<sup>3</sup>.

OSHA-PEL: n-Butyl alcohol – 100 ppm; Silica, quartz Total Dust – 30 mg/m<sup>3</sup> / (%SiO<sub>2</sub> +2);  
Respirable Silica, quartz – 10 mg/m<sup>3</sup> / (%SiO<sub>2</sub> +2).

**Routes of exposure:** Skin contact, eye contact, inhalation and ingestion.

**Irritancy of product:** Mild skin irritant, severe eye irritant.

**Inhalation:** Harmful if inhaled. Inhalation may cause nose, throat and respiratory tract irritation. Symptoms may include headache, nausea, vomiting, dizziness and other central nervous system effects.

**Skin:** May cause mild irritation.

**Eyes:** May cause severe irritation.

**Ingestion:** Harmful if ingested. May cause irritation to the mouth, throat and stomach. Symptoms may include headache, nausea, vomiting, dizziness and other central nervous system effects.

**Chronic effects:** Prolonged or repeated skin contact may cause severe drying and cracking of the skin (dermatitis). Chronic inhalation of silica dusts can cause scarring of the lungs, a disease called silicosis. However, due to the physical state and intended use of the product, silicosis is not expected under normal conditions of use.

**Carcinogenicity:** Contains Silica, quartz. Silica, quartz is classified as carcinogenic by IARC (Group 1) and ACGIH (Group A2).

**Reproductive effects, Teratogenicity, Mutagenicity:** None known.

**Sensitization to material:** None known.

**Synergistic materials:** N/Av.

**Conditions aggravated by exposure:** Pre-existing skin, eye and respiratory disorders.

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### SECTION VII - FIRST AID

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**Inhalation:** Remove victim to fresh air. Obtain medical attention.

**Skin contact:** Wash skin with soap and plenty of water, while removing contaminated clothing. Obtain medical attention if irritation persists.

**Eye contact:** Immediately flush eyes thoroughly with water for at least fifteen minutes. Do not rub eyes. Obtain medical attention.

**Ingestion:** Do not induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious or convulsing person.

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### SECTION VIII - PREVENTIVE MEASURES

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**Spill, leak or release:** Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate chemically resistant equipment. Eliminate all sources of heat and flame. Ventilate area of release. Stop leak if you can do so without risk. Absorb or wipe up with non-combustible, inert absorbent material. Place contaminated absorbent material into suitable containers for later disposal (see below). Clean spill area. Keep out of waterways. Notify the appropriate authorities as required.

**Waste disposal:** Handle according to recommendations listed below. Dispose in accordance with all applicable government regulations.

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## SECTION VIII - PREVENTIVE MEASURES Continued

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### \*\*\*PROTECTIVE EQUIPMENT\*\*\*

**Respiratory protection:** None required under normal use. For prolonged exposure or if the TLV is exceeded, wear NIOSH-approved respirators.

**Ventilation:** Use in well ventilated area. General ventilation should be sufficient under normal use. Local exhaust ventilation may be necessary for prolonged exposures or if the product is being heated.

**Protective gloves:** Gloves impervious to the material, must be worn. Advice should be sought from glove suppliers.

**Eye protection:** Safety goggles, to prevent product from entering the eyes.

**Other protective equipment:** An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required according to workplace standards.

### \*\*\* STORAGE & HANDLING \*\*\*

#### Storage and handling conditions:

**Handling:** Wear appropriate chemically protective equipment. Use in a well ventilated area. Avoid inhaling vapours or fumes. Avoid contact with skin, eyes, and clothing. Avoid and control operations that create dusty atmospheres. Keep away from heat, sparks and flame. Keep away from acids and incompatible materials. Keep container tightly closed when not in use. Wash thoroughly after handling.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatibles (refer to Section V), heat and flame. No smoking in the area. Inspect periodically for damage or leaks.

#### Special Shipping Information - Transportation of Dangerous Goods Regulations (TDGR):

Shipping Name: BUTANOLS

UN No.: UN1120

Primary Class(es): 3

Subsidiary Class(es): None

Packing Group: III

**Other Shipping Information:** For shipments by ground within Canada only, the Flammable Liquids General Exemption may apply. Under the TDGR, refer to Section 1.33 for additional exemption information, if shipping under this exemption. For other shipments by ground for Canada, the Limited Quantity / Consumer Commodity Exemption may apply for containers which hold 5 litres or less of the material. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.

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## SECTION IX - PREPARATION INFORMATION

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

**Telephone No.:** 905-898-2557

**Preparation date:** December 1, 2009

#### Additional notes or references:

Legend: ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

N/Ap: Not Applicable

N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RTECs: Registry of Toxic Effects of Chemical Substances

TLV: Threshold Limit Values

WHMIS: Workplace Hazardous Materials Information System

- References:
1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2005.
  2. International Agency for Research on Cancer Monographs, searched 2006.
  3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2006 (Chempendium and RTECs).
  4. Material Safety Data Sheet from manufacturer.