



Glycol Ether DPM (Comsol DPM)

SDS Preparation Date (mm/dd/yyyy): 04/24/2016

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **Glycol Ether DPM (Comsol DPM)**

**Product Code(s)** : None assigned.

**Recommended use of the chemical and restrictions on use**

: Solvent / Cleaner / Degreaser  
Use pattern: professional use  
Recommended restrictions None known.

**Chemical family** : Glycol ethers

**Name, address, and telephone number of the supplier:**

**Comet Chemical Company Ltd.**

3463 Thomas Street

Innisfill, ON, Canada  
L9S 3W4

Supplier's Telephone # : 705-436-5580

**24 Hr. Emergency Tel #** : TERRRAPURE ENVIRONMENTAL : 800-567-7455

**Name, address, and telephone number of the manufacturer:**

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Clear colourless liquid. Sweet ethereal odour.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable liquid - Category 4

**Label elements**

*Signal Word*

WARNING!

*Hazard statement(s)*

Combustible liquid.

*Precautionary statement(s)*

Keep away from flames and hot surfaces. - No smoking.

Wear protective gloves and eye/face protection.

In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards**

Other hazards which do not result in classification: Burning produces obnoxious and toxic fumes. May be mildly irritating to eyes and skin. Ingestion of large amounts may cause: Dizziness, headache, and nausea. Fumes from heated product or mists may irritate respiratory tract.

Ecological information:

Harmful to aquatic life with long lasting effects. Avoid release to the environment.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

| <u>Chemical name</u>                | <u>Common name and synonyms</u>             | <u>CAS #</u> | <u>Concentration (% by weight)</u> |
|-------------------------------------|---|--------------|------------------------------------|
| Dipropylene glycol monomethyl ether | 1,4-Dimethyl-3,6-dioxo-1-heptanol;<br>DPGME | 34590-94-8   | 100.00                             |

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Get medical advice/attention if you feel unwell.
- Inhalation* : If breathed in, move person into fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical advice/attention if you feel unwell.
- Skin contact* : Wash affected areas with soap and water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
- Eye contact* : Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

- : May cause mild skin and eye irritation. Exposure may cause temporary irritation, redness or discomfort.  
Ingestion of large amounts may be harmful. Ingestion of large amounts may cause: Dizziness, headache, and nausea.  
Fumes from heated product or mists may irritate respiratory tract. Symptoms may include coughing and sneezing.

#### Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam; Water fog.

##### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

- : Combustible liquid and vapor. Keep away from flames and hot surfaces. Burning produces obnoxious and toxic fumes. Vapors are heavier than air and may spread along floors. Material will float on water and can be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable liquid - Category 4

#### Hazardous combustion products

- : Carbon oxides and other irritating fumes and smoke.

#### Special protective equipment and precautions for firefighters

##### *Protective equipment for fire-fighters*

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



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*Special fire-fighting procedures*

- : Avoid breathing fumes, mists or vapors. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

- : Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Remove all sources of ignition. All persons dealing with the clean-up should wear the appropriate personal protective equipment. Refer to protective measures listed in sections 7 and 8.

- Environmental precautions** : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

**Methods and material for containment and cleaning up**

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.

**Special spill response procedures**

- : In case of transportation accident, contact TERRAPURE ENVIRONMENTAL at 1-800-567-7455. EPA/CERCLA Reportable quantity (RQ): None known.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**

- : Use in a well-ventilated area. Keep away from flames and hot surfaces. - No smoking. Wear appropriate protective equipment. Wear protective gloves and eye/face protection. Bond and ground transfer containers and equipment to avoid static accumulation. Avoid breathing fumes, mists or vapors. Avoid generating vapours or mists. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Wash with soap and water after handling. Keep away from incompatibles. Keep containers closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

- Conditions for safe storage** : Store in a well ventilated place. Keep cool. Keep away from heat and sources of ignition. Keep container tightly closed. Store away from incompatible materials. Do not store in direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking. Inspect periodically for damage or leaks. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

- Incompatible materials** : Strong oxidizing agents, Strong acids.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Exposure Limits:</u>             |                  |                |                 |             |
|-------------------------------------|------------------|----------------|-----------------|-------------|
| <u>Chemical Name</u>                | <u>ACGIH TLV</u> |                | <u>OSHA PEL</u> |             |
|                                     | <u>TWA</u>       | <u>STEL</u>    | <u>PEL</u>      | <u>STEL</u> |
| Dipropylene glycol monomethyl ether | 100 ppm (skin)   | 150 ppm (skin) | 100 ppm (skin)  | N/Av        |

**Exposure controls**

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### Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

### Respiratory protection

: If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. In misty conditions, wear NIOSH/MSHA approved mist respirator. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

### Skin protection

: No specific requirement. Recommended preventive skin protection. For prolonged or repeated contact use protective gloves. Advice should be sought from glove suppliers.

### Eye / face protection

: Chemical goggles are recommended when there is a potential for splashing. A full face shield may also be necessary.

### Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

### General hygiene considerations

: Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Clear, colourless liquid

**Odour** : Sweet ethereal odour.

**Odour threshold** : N/Av

**pH** : N/Av

**Melting/Freezing point** : -117.4°F / -83°C

**Initial boiling point and boiling range**

: 370.9-373°F / 188.3-189.6°C

**Flash point** : 165-167°F / 74-75°C

**Flashpoint (Method)** : closed cup

**Evaporation rate (BuAe = 1)** : 0.02 (butyl acetate = 1)

**Flammability (solid, gas)** : Not applicable.

**Lower flammable limit (% by vol.)**

: N/Av

**Upper flammable limit (% by vol.)**

: 3.0%

**Oxidizing properties** : None known.

**Explosive properties** : Not explosive

**Vapour pressure** : 0.4 - 0.55 mm Hg @ 25°C / 77°F

**Vapour density** : 5.1 (Air = 1)

**Relative density / Specific gravity**

: 0.95@25 °C / 77°F

**Solubility in water** : Soluble

**Other solubility(ies)** : Soluble in all proportions with diethyl ether, acetone, benzene, chloroform, methanol and some other organic solvents.

**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**

: 0.0061

**Auto-ignition temperature** : 404-518°F / 207-270°C

**Decomposition temperature** : N/Av

**Viscosity** : 4.55mm<sup>2</sup>/s@ 20°C / 68°F

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**Volatiles (% by weight)** : N/Av  
**Volatile organic Compounds (VOC's)**  
: N/Av  
**Absolute pressure of container**  
: N/Av  
**Flame projection length** : N/Av  
**Other physical/chemical comments**  
: Molecular Weight: 148.2 g/mol

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.  
**Chemical stability** : Stable under normal conditions. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. It is expected to be low and is not expected to present any hazard.  
**Possibility of hazardous reactions**  
: No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.  
**Conditions to avoid** : Temperatures above 74°C / 166°F. Keep away from flames and hot surfaces. Keep away from direct sunlight. Avoid prolonged exposure to air. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.  
**Incompatible materials** : Strong oxidizing agents, Strong acids.  
**Hazardous decomposition products**  
: Carbon oxides and other irritating fumes and smoke.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

**Routes of entry inhalation** : YES  
**Routes of entry skin & eye** : YES  
**Routes of entry Ingestion** : YES  
**Routes of exposure skin absorption**  
: YES

#### Potential Health Effects:

##### Signs and symptoms of short-term (acute) exposure

###### *Sign and symptoms Inhalation*

: Fumes from heated product or mists may irritate respiratory tract. Symptoms may include coughing and sneezing.

###### *Sign and symptoms ingestion*

: Ingestion of large amounts may be harmful. Ingestion of large amounts may cause: Dizziness, headache, and nausea.

###### *Sign and symptoms skin*

: May cause mild skin irritation. Exposure may cause temporary irritation, redness or discomfort.

###### *Sign and symptoms eyes*

: May cause mild eye irritation. Exposure may cause temporary irritation, redness or discomfort.

##### Potential Chronic Health Effects

: None reported by the manufacturer.  
**Mutagenicity** : Not expected to be mutagenic in humans.  
**Carcinogenicity** : No components present at greater than 0.1% are considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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### Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

**Sensitization to material** : Not expected to be a skin or respiratory sensitizer.

**Specific target organ effects** : Not classified as a specific target organ toxicity-single exposure.  
Not classified as specific target organ toxicity-repeated exposure.

### Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

**Synergistic materials** : No information available.

**Toxicological data** : Not classified for acute toxicity based on available data.

See below for toxicological data on the substance.

| <u>Chemical name</u>                | <u>LC<sub>50</sub>(4hr)</u><br><u>inh, rat</u> | <u>LD<sub>50</sub></u> |                         |
|-------------------------------------|--|------------------------|-------------------------|
|                                     |  | <u>(Oral, rat)</u>     | <u>(Rabbit, dermal)</u> |
| Dipropylene glycol monomethyl ether | >3 mg/L (mist)                                 | 5120 mg/kg             | 9480 mg/kg              |

### Other important toxicological hazards

: None reported by the manufacturer.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Harmful to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for the substance's ecotoxicity data.

### Ecotoxicity data:

| <u>Ingredients</u>                  | <u>CAS No</u> | <u>Toxicity to Fish</u>        |                      |                 |
|-------------------------------------|---------------|--------------------------------|----------------------|-----------------|
|                                     |               | <u>LC50 / 96h</u>              | <u>NOEC / 21 day</u> | <u>M Factor</u> |
| Dipropylene glycol monomethyl ether | 34590-94-8    | > 10 000 mg/L (Fathead minnow) | N/Av                 | None.           |

| <u>Ingredients</u>                  | <u>CAS No</u> | <u>Toxicity to Daphnia</u> |                      |                 |
|-------------------------------------|---------------|----------------------------|----------------------|-----------------|
|                                     |               | <u>EC50 / 48h</u>          | <u>NOEC / 21 day</u> | <u>M Factor</u> |
| Dipropylene glycol monomethyl ether | 34590-94-8    | 1919 mg/L (Daphnia magna)  | ≥0.5 mg/L (22 days)  | None.           |

| <u>Ingredients</u>                  | <u>CAS No</u> | <u>Toxicity to Algae</u>      |                          |                 |
|-------------------------------------|---------------|-------------------------------|--------------------------|-----------------|
|                                     |               | <u>EC50 / 96h or 72h</u>      | <u>NOEC / 96h or 72h</u> | <u>M Factor</u> |
| Dipropylene glycol monomethyl ether | 34590-94-8    | > 969 mg/L/72hr (Green algae) | 969 mg/L/72hr            | None.           |

### Persistence and degradability

: Expected to be readily biodegradable.

**Bioaccumulation potential** : See the following data for ingredient information.

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| <u>Components</u>                                    | <u>Partition coefficient n-octanol/water (log Kow)</u> | <u>Bioconcentration factor (BCF)</u> |
|--|--|--------------------------------------|
| Dipropylene glycol monomethyl ether (CAS 34590-94-8) | 0.0061 @ 25°C  | <1                                   |

**Mobility in soil** : There is no data available for this product.

**Other Adverse Environmental effects**

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.





### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Refer to protective measures listed in sections 7 and 8.

**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

### SECTION 14. TRANSPORTATION INFORMATION

| Regulatory Information                  | UN Number   | UN proper shipping name  | Transport hazard class(es) | Packing Group | Label   |
|---|---|--|----------------------------|---------------|---|
| 49CFR/DOT                               | NA1993  | Combustible liquid, n.o.s. (Dipropylene glycol monomethyl ether) | Combustible.               | III           |  |
| <b>49CFR/DOT Additional information</b> | The 'label' appearing here is the placard to be used for bulk shipments. Not regulated for road or rail shipment if packaged in non-bulk containers (450 Litres or less each). Refer to 49 CFR Section 173.150. |  |                            |               |   |
| TDG                                     | None.   | Not regulated.   | not regulated              | none          |  |
| <b>TDG Additional information</b>       | None.   |  |                            |               |   |
| ICAO/IATA                               | None.   | Not regulated.   | not regulated              | none          |  |
| <b>ICAO/IATA Additional information</b> | None.   |  |                            |               |   |
| IMDG                                    | None.   | Not regulated.   | not regulated              | none          |  |
| <b>IMDG Additional information</b>      | None.   |  |                            |               |   |

**Special precautions for user** : Keep away from extreme heat and flame. Appropriate advice on safety must accompany the package.





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**Environmental hazards** : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
: This information is not available.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

| Ingredients                         | CAS #      | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical |                          |
|-------------------------------------|------------|----------------|--|--|---|--------------------------|
|                                     |            |                |  |  | Toxic Chemical  | de minimus Concentration |
| Dipropylene glycol monomethyl ether | 34590-94-8 | Yes            | N/Ap   | N/Ap   | No  | N/Ap                     |

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

| Ingredients                         | CAS #      | California Proposition 65 |                  | State "Right to Know" Lists |     |     |     |     |    |
|-------------------------------------|------------|---------------------------|------------------|-----------------------------|-----|-----|-----|-----|----|
|                                     |            | Listed                    | Type of Toxicity | CA                          | MA  | MN  | NJ  | PA  | RI |
| Dipropylene glycol monomethyl ether | 34590-94-8 | No                        | Not listed       | Yes                         | Yes | Yes | Yes | Yes | No |

**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**International Information:**

Components listed below are present on the following International Inventory list:

| Ingredients                         | CAS #      | European EINECs | Australia AICS | Philippines PICCS | Japan ENCS      | Korea KECI/KECL | China IECSC | NewZealand IOC |
|-------------------------------------|------------|-----------------|----------------|-------------------|-----------------|-----------------|-------------|----------------|
| Dipropylene glycol monomethyl ether | 34590-94-8 | 252-104-2       | Present        | Present           | (7)-97; (2)-426 | KE-12230        | Present     | HSR001402      |

### SECTION 16. OTHER INFORMATION

**Legend** : ACGIH: American Conference of Governmental Industrial Hygienists  
AICS: Australian Inventory of Chemical Substances  
CA: California



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CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
EC50: Effective Concentration 50%.  
EINECS: European Inventory of Existing Commercial chemical Substances  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
IBC: Intermediate Bulk Container  
ICAO: International Civil Aviation Organisation  
IECSC: Inventory of Existing Chemical Substances  
Inh: Inhalation  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet / Material Safety Data Sheet  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016.
  2. International Agency for Research on Cancer Monographs, searched 2016.
  3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016 (Chempendium, HSDB and RTECs).
  4. Material Safety Data Sheets from manufacturer.
  5. US EPA Title III List of Lists - 2016 version.
  6. California Proposition 65 List

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### Other special considerations for handling

: Provide adequate information, instruction and training for operators.

|   |  |
|---|--|
| <p><b>Prepared for:</b><br/>Comet Chemical Company Ltd.<br/>3463 Thomas Street<br/>Innisfill, ON L9S 3W4<br/>Information (M-F 8:00-5:00): 705-436-5580<br/><a href="http://www.cometchemical.com">www.cometchemical.com</a></p> |  |
| <p><b>Prepared by:</b><br/>ICC The Compliance Center Inc.<br/>Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)<br/><a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>             |  |

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