

Carbitol Solvent

SDS Revision Date (mm/dd/yyyy): 10/13/2023

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Carbitol Solvent**

Other means of identification : None reported.

Recommended use of the chemical and restrictions on use

: Industrial solvent.  
Use pattern: Professional use only  
Restriction on use: None known

Chemical family

: aliphatic glycol ether

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 #**

: GFL Environmental - 1-888-772-2543

Name, address, and telephone number of  
the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear colourless liquid. Fruity 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

Eye irritation - Category 2A

Label elements

Hazard pictogram(s)



Signal Word

WARNING!

Hazard statement(s)

Combustible liquid.

Causes serious eye irritation.

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**SAFETY DATA SHEET***Precautionary statement(s)*

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking  
Wash hands and face thoroughly after handling.  
Wear protective gloves and eye/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use water fog, dry chemical, CO<sub>2</sub> or 'alcohol' foam to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local regulation.

**Other hazards**

Other hazards which do not result in classification :

Ingestion may cause irritation of the mouth, throat and stomach. May cause mild skin irritation.

**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>
Diethylene glycol monoethyl ether	Diglycol monoethyl ether; DEGEE	111-90-0	100.00

**SECTION 4. FIRST-AID MEASURES****Description of first aid measures**

- Ingestion* : Do not induce vomiting. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : Wash affected areas with soap and water. Take off contaminated clothing and wash before re-use. Get medical attention if irritation develops and persists.
- Eye contact* : Flush with large amounts of water for 15 minutes. Remove contact lenses, if present and easy to do. If irritation or symptoms develop, seek medical attention.

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

- : Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct skin contact may cause temporary redness.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

- : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing media***Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

*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 vapour. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

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### Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquid - Category 4

### Hazardous combustion products

: Carbon dioxide and carbon monoxide.

### 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. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

#### *Special fire-fighting procedures*

: Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

: All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

### Methods and material for containment and cleaning up

: Ventilate the area. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. 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 Canada: For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC).  
US CERCLA Reportable quantity (RQ): None.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

: Wear protective gloves and eye/face protection. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat and flame. Take precautionary measures against static discharge. Ground all equipment during handling. Use non-sparking tools. Label containers appropriately. Wash thoroughly after handling. Avoid contact during pregnancy/while nursing. Keep containers closed when not in use.

**Conditions for safe storage** : Store in a cool, dry, well-ventilated area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

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

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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>			
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u> <u>STEL</u>
Diethylene glycol monoethyl ether	N/Av	N/Av	N/Av      N/Av

#### Exposure controls

##### Ventilation and engineering measures

- : Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Use explosion-proof electrical and ventilating equipment.

**Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists.

**Skin protection** : Wear protective gloves. Advice should be sought from glove suppliers.

**Eye / face protection** : Wear eye/face protection. Safety glasses with side-shields or chemical splash goggles.

**Other protective equipment** : Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks. Wear protective gloves. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

##### General hygiene considerations

- : Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** : Liquid.  
**Colour** : Clear, colorless.  
**Odour** : Fruity odour.  
**Odour threshold** : ~1 ppm  
**pH** : No information available.  
**Melting Point/Freezing point** : -44°C

##### Initial boiling point and boiling range

: 201°C

**Flash point** : 91-102°C

**Flashpoint (Method)** : closed cup

**Evaporation rate (BuAe = 1)** : Not available.

**Flammability** : Not applicable.

**Lower explosion or flammability limit (% by vol.)**

: 1.2%

**Upper explosion or flammability limit (% by vol.)**

: 9%

**Oxidizing properties** : None known.

**Explosive properties** : Not explosive

**Vapour pressure** : 0.07 mmHg

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Relative vapour density : 4.6(Air = 1)  
Relative density / Specific gravity : 0.991  
Solubility in water : Soluble  
Other solubility(ies) : Soluble in most organic solvents.  
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : -0.69  
Auto-ignition temperature : 204°C  
Decomposition temperature : No information available.  
Viscosity : Not available.  
Particle characteristics : Not applicable.  
Volatiles (% by weight) : No information available.  
Volatile organic Compounds (VOC's) : No information available.  
Absolute pressure of container : N/Ap  
Flame projection length : N/Ap  
Other physical/chemical comments : None known or reported by the manufacturer.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.  
Chemical stability : Stable under normal conditions. Material is hygroscopic and may absorb moisture from air.  
Possibility of hazardous reactions : Hazardous polymerization does not occur.  
Conditions to avoid : Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Exposure to moisture.  
Incompatible materials : Incompatible materials (see Section 7).  
Hazardous decomposition products : None known, refer to hazardous combustion products in Section 5.

### 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 : NO

#### Potential Health Effects:

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

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

: Inhalation of high concentrations of vapors, may cause respiratory irritation, with throat discomfort, coughing or difficulty breathing.

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

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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*Sign and symptoms skin* : May cause mild skin irritation.  
*Sign and symptoms eyes* : Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

**Potential Chronic Health Effects**

: Prolonged or repeated exposure may cause blood system effects.

**Mutagenicity**

: Not expected to be mutagenic in humans.

**Carcinogenicity**

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects & Teratogenicity**

: This product is 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 a specific target organ toxicity - repeated exposure.

**Medical conditions aggravated by overexposure**

: None known or reported by the manufacturer.

**Synergistic materials**

: No information available.

**Toxicological data**

: See below for toxicological data on the substance.

<u>Chemical name</u>	<b>LC<sub>50</sub>(4hr)</b> <u>inh, rat</u>	<b>LD<sub>50</sub></b>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Diethylene glycol monoethyl ether	>5240 mg/m <sup>3</sup> 4 h (no deaths)	5485 mg/kg	3670mg/kg

**Other important toxicological hazards**

: See Section 3 for additional information.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. 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 individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<b>CAS #</b>	<b>Toxicity to Fish</b>		
		<b>LC50 / 96h</b>	<b>NOEC / 21 day</b>	<b>M Factor</b>
Diethylene glycol monoethyl ether	111-90-0	13,417mg/L (Rainbow trout)	N/Av	None.

<u>Ingredients</u>	<b>CAS #</b>	<b>Toxicity to Daphnia</b>		
		<b>EC50 / 48h</b>	<b>NOEC / 21 day</b>	<b>M Factor</b>
Diethylene glycol monoethyl ether	111-90-0	N/Av	N/Av	None.

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Ingredients	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Diethylene glycol monoethyl ether	111-90-0	N/Av	N/Av	None.

**Persistence and degradability**

: Readily biodegradable.

**Bioaccumulation potential**

: No data is available on the product itself.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Diethylene glycol monoethyl ether (CAS 111-90-0)	-0.69	3

**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**

: No data is available on the product itself.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal**

: Handle waste according to recommendations in Section 7. Empty containers may contain hazardous residues.




**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.

### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	NA1993	Combustible liquid, n.o.s. (Diethylene glycol monomethyl ether)	Combustible.	III	
49CFR/DOT Additional information	Not regulated for road or rail shipment if packaged in non-bulk containers (450 Litres or less each).				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				

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**Special precautions for user** : Keep away from flames and hot surfaces. - No smoking.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

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

<u>Ingredients</u>	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 Minimis Concentration
Diethylene glycol monoethyl ether	111-90-0	Yes	N/Ap	N/Av	No	No

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Chronic Health Hazard Fire Hazard

#### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Diethylene glycol monoethyl ether	111-90-0	No	N/Ap	No	No	Yes	No	No	No

#### Canadian Information:

All ingredients are present on the DSL.

#### International Information:

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

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Diethylene glycol monoethyl ether	111-90-0	203-919-7	Present	Present	(7)-97; (2)-422	KE-10467	Present	HSR003154

### SECTION 16. OTHER INFORMATION

#### **Legend**

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CNS: Central Nervous System
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- EINECS: European Inventory of Existing Commercial chemical Substances
- IARC: International Agency for Research on Cancer



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IBC: Intermediate Bulk Container  
IMDG: International Maritime Dangerous Goods  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
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
2. ECHA - European Chemical Agency
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

**Preparation Date (mm/dd/yyyy)**

: 10/11/2016

**Reviewed Date SDS (dd/mm/yyyy)**

: 13/10/2023

**Revision No.**

: 2

**Revision Information**

: Updated SDS to the comply with new 2023 WHMIS format

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

**Prepared for:**

Comet Chemical Company Ltd.  
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Innisfill, ON L9S 3W4  
Information (M-F 8:00-5:00): 705-436-5580  
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**Prepared by:**

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## **SAFETY DATA SHEET**

other process.

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