

Butyl Carbitol

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: Butyl Carbitol

Other means of identification: Not available.

Recommended use of the chemical and restrictions on use

: Antifreeze; Plasticiser; Solvent Use pattern: Professional Use Only Restriction on use: None known

Chemical family : Aliphatic ether alcohol

Name, address, and telephone number

Comet Chemical Company Ltd.

of the supplier:

Name, address, and telephone number of

the manufacturer:

Refer to supplier

3463 Thomas Street Innisfill, ON, Canada

L9S 3W4

Supplier's Telephone # : (705) 436-5580

24 Hr. Emergency Tel #: GFL Environmental - 1-888-772-2543

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear colourless liquid. Ether like 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:

Eye irritation - Category 2A

Label elements

Hazard pictogram(s)



Signal Word

Warning!

Hazard statement(s)

Causes serious eye irritation.

Precautionary statement(s)

Wash hands 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.



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Other hazards

Other hazards which do not result in classification:

May cause skin and respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Ethanol, 2-Butoxyethoxy	Diethylene glycol monobutyl ether; DEGBE	112-34-5	100.00

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

: Induce vomiting ONLY under the direct supervision of qualified medical personnel or a Ingestion

poison control centre. Never give anything by mouth to an unconscious person. Call a

POISON CENTRE or doctor/physician if you feel unwell.

: Immediately remove person to fresh air. If breathing has stopped, give artificial Inhalation

respiration. Get medical attention if symptoms persist.

Skin contact : Immediately flush with plenty of water, while removing contaminated clothing. If

irritation persists, seek prompt medical attention. Launder clothing before reuse.

Eye contact Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact

lenses if worn, and continue flushing for at least 5 to 10 minutes. If irritation persists,

seek prompt 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 slight or mild, transient irritation. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.

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

: Burning produces obnoxious and toxic fumes.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

: Carbon oxides, formaldehyde and other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters



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: 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: 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 protective equipment including self-contained breathing apparatus. 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. 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. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools. 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).

Special spill response procedures

In Canada: For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC).
 US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Wear protective gloves and eye/face protection. Keep away from heat and open flames. - No smoking. Use with adequate ventilation. Do not breathe mist or vapor. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from acids and other incompatibles. Keep containers tightly closed when not in use.Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Conditions for safe storage

Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials

: Strong oxidizing agents; Acids; Bases; calcium hypochlorite; Perchloric acid



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:					
Chemical Name	ACGIH TLV		OSHA PEL		
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>	
Ethanol, 2-Butoxyethoxy	100 mg/m³ (inhalable) (vapor)	N/Av	N/Av	N/Av	

Exposure controls

Ventilation and engineering measures

: Use sufficient mechanical ventilation to maintain exposures below the TLV. Use local

exhaust if mist or spray is generated.

Respiratory protection: Respiratory protection is required if the concentrations exceed the TLV.

NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists. 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.

Skin protection: Wear appropriate chemical resistant gloves. Advice should be sought from glove

suppliers.

Eye / face protection: Chemical goggles are recommended when there is a potential for splashing.

Other protective equipment: Emergency showers and eyewash facilities should be nearby. Wear a chemically

resistant apron and long sleeves when dispensing, to prevent skin contact.

General hygiene considerations

: Avoid breathing mist or vapours. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. 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, colourless
Odour : Ether like odour.
Odour threshold : Not available.
pH : Not applicable.

Melting Point/Freezing point : -68°C Initial boiling point and boiling range

: 230°C

Flash point : 99°C Flashpoint (Method) : closed cup Evaporation rate (BuAe = 1) : 0.004

Flammability : Not applicable.

Lower explosion or flammability limit (% by vol.)

0.85%

Upper explosion or flammability limit (% by vol.)

24.6%

Oxidizing properties : None.

Explosive properties : Not explosive

Vapour pressure : 0.03 mmHg

Relative vapour density : 5.58



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Relative density / Specific gravity

: 0.951

Solubility in water : Complete

Other solubility(ies) : Soluble in most organic solvents.

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

: 1

Auto-ignition temperature : 228°C

Decomposition temperature : Not available.

Viscosity : 4.9 cP

Particle characteristics : Not applicable.

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: Not applicable.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

: Molecular formula: C8-H18-O3 Molecular Weight: 162.23 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : Avoid excessive heat, sparks and open flame. Do not use in areas without adequate

ventilation. Avoid contact with incompatible materials.

Incompatible materials : Strong oxidizing agents; Acids; Bases ; calcium hypochlorite; Perchloric acid

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

: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

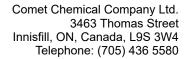
Sign and symptoms Inhalation

If mists are inhaled, may cause tearing, general anesthesia, headache, coughing, respiratory stimulation, nausea, vomiting, pulmonary, kidney and liver damage.

Sign and symptoms ingestion

: Ingestion can cause gastrointestinal irritation, nausea, and diarrhea.

Sign and symptoms skin : Direct skin contact may cause temporary redness.





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Sign and symptoms eyes : Causes serious eye irritation. Symptoms may include redness, pain, tearing and

conjunctivitis.

Potential Chronic Health Effects

: Prolonged or repeated ingestion may cause bladder or kidney stones.

Mutagenicity : Not expected to be mutagenic.

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

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 - repeated exposure. Not classified as a specific target organ toxicity - single exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye or nervous system disorders.

Synergistic materials : Not available.

Toxicological data : See below for toxicological data on the substance.

	LCso(4hr)	LD50		
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)	
Ethanol, 2-Butoxyethoxy	0.136 mg/L (No mortality)	6560 mg/kg	2764 mg/kg	

Other important toxicological hazards

: CNS depression may result from extreme exposures.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be harmful to aquatic organisms. See the following tables for

individual ingredient ecotoxicity data. Do not allow material to contaminate ground

water system.

Ecotoxicity data:

<u>Ingredients</u>	CAS #	Toxicity to Fish				
	CAS#	LC50 / 96h	NOEC / 21 day	M Factor		
Ethanol, 2-Butoxyethoxy	112-34-5	1300 mg/L (Bluegill sunfish)	N/Av	None.		

<u>Ingredients</u>	CAS#	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Ethanol, 2-Butoxyethoxy	112-34-5	> 100 mg/L (Daphnia magna)	N/Av	None.		

Ingredients	CAS#	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Ethanol, 2-Butoxyethoxy	112-34-5	> 100 mg/L/96hr (Green algae)	>100 mg/L (Green algae)	None.		



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Persistence and degradability

: Readily biodegradable.

Bioaccumulation potential

: No data is available on the product itself. See the following data for ingredient

information.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Ethanol, 2-Butoxyethoxy (CAS 112-34-5)	1	1.4

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 Methods of Disposal

- : Handle waste according to recommendations in Section 7.
- : 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.



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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None	Not regulated.	not regulated	none	\otimes
49CFR/DOT Additional information	None.	!	-		
ICAO/IATA	None.	Not regulated.	not regulated	none	\otimes
ICAO/IATA Additional information	None.	!			
IMDG	None.	Not regulated.	not regulated	none	\otimes
IMDG Additional information	None.	!			
TDG	None.	Not regulated.	not regulated	none	\otimes
TDG Additional information	None.	!	!		

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

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

	TSCA		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS#	S # Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de Minimis Concentration	
Ethanol, 2-Butoxyethoxy	112-34-5	Yes	N/Ap	N/Av	No	No	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Eye irritation

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:



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<u>Ingredients</u> CAS#	CAS#	California Proposition 65		State "Right to Know" Lists					
	37.0	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ethanol, 2-Butoxyethoxy	112-34-5	No	N/Ap	No	No	No	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:

Ingredients	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Ethanol, 2-Butoxyethoxy	112-34-5	203-961-6	Present	Present	(7)-97; (2)-422	KE-10466	Present	HSR001075

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 COC: Cleveland Open Cup

CSA: Canadian Standards Association DOT: Department of Transportation EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

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 TLV: Threshold Limit Values TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

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

References



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Revision Information : (M)SDS sections updated: 2. HAZARDS IDENTIFICATION; 5. FIRE-FIGHTING

MEASURES: 9. PHYSICAL AND CHEMICAL PROPERTIES: 15. REGULATORY

INFORMATION

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

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Information (M-F 8:00-5:00): 705-436-5580

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