

# Glycol Ether DB (Butyl Carbitol)

# **SECTION 1. IDENTIFICATION**

Product Identifier	Glycol Ether DB (Butyl Carbitol)
Other Means of Identification	DEGBE, Diethylene glycol n-butyl ether
Product Code(s)	GL5110
Product Family	Organic solution
Recommended Use	Solvent.
<b>Restrictions on Use</b>	None known.
Supplier Identifier	Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995
Emergency Phone No.	CANUTEC CANADA, 613-996-6666, 24 Hours
SDS No.	0412
Date of Preparation	March 04, 2016

# **SECTION 2. HAZARD IDENTIFICATION**

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

#### Classification

Eye irritation - Category 2A Label Elements



Signal Word: Warning

Hazard Statement(s): Causes serious eye irritation.

Precautionary Statement(s): Prevention: Wash thoroughly after handling. Wear eye protection/face protection. Response: 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 or attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. **Other Hazards** 

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance:

Chemical Name	CAS No.	%	Other Identifiers
Diethylene glycol monobutyl ether	112-34-5		DEGBE, Diethylene glycol n-butyl ether

# **SECTION 4. FIRST-AID MEASURES**

### **First-aid Measures**

### Inhalation

Remove source of exposure or move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

# Skin Contact

Rinse with lukewarm, gently flowing water for 5 minutes. If skin irritation occurs, get medical advice or attention.

### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

### Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

### **First-aid Comments**

All first aid procedures should be periodically reviewed by a doctor familiar with the material and its condition of use in the workplace.

### Most Important Symptoms and Effects, Acute and Delayed

None known.

# Immediate Medical Attention and Special Treatment

### Special Instructions

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

# **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

### **Unsuitable Extinguishing Media**

Do not use a solid (straight) water stream as it may scatter and spread fire.

# **Specific Hazards Arising from the Product**

Closed containers may rupture violently when heated releasing contents. Heating increases the release of toxic vapour.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide.

# **Special Protective Equipment and Precautions for Fire-fighters**

Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases. Use water spray to dilute spills to non-flammable mixtures. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Dike and recover contaminated water for appropriate disposal. Before entry, especially into confined areas, use an appropriate monitor to check for: flammable or explosive atmosphere, flammable or explosive atmosphere, sufficient oxygen.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Emergency responders: evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources if safe to do so. Remove or isolate incompatible materials as well as other hazardous materials.

### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

Large spills or leaks: dike spilled product to prevent runoff. Remove or recover liquid using pumps or vacuum equipment. Store recovered product in suitable containers that are: tightly-covered. Flush spill area.

# **SECTION 7. HANDLING AND STORAGE**

### Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Wear personal protective equipment to avoid direct contact with this chemical. Avoid generating vapours or mists. Only use where there is adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent accidental contact with incompatible chemicals. Keep containers tightly closed when not in use or empty. Never return unused or contaminated product to its original container.

### **Conditions for Safe Storage**

Store in an area that is: cool, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources, separate from incompatible materials (see Section 10: Stability and Reactivity). Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Clear of combustible and flammable materials (e.g. old rags, cardboard). Keep amount in storage to a minimum. Store in a closed container.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Diethylene glycol monobutyl ether	10 ppm		Not established			

### Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

### Individual Protection Measures

### **Eye/Face Protection**

Wear chemical safety goggles and face shield when contact is possible.

### **Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots. Suitable materials are: butyl rubber, polyvinyl alcohol, Viton®, Viton®/butyl rubber.

The following materials should NOT be used: natural rubber.

### **Respiratory Protection**

No specific guidelines are available. Contact chemical manufacturer/supplier for advice. Since this chemical is not very volatile, respiratory protection should not be necessary unless the material is heated or a mist is created.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

# Basic Physical and Chemical Properties

Appearance Clear colourless liquid.

Odour	Ethereal
Odour Threshold	Not available
рН	Not available
Melting Point/Freezing Point	-68 °C (-90 °F) (melting); -68 °C (-90 °F) (freezing)
Initial Boiling Point/Range	231 °C (448 °F)
Flash Point	114 °C (237 °F)
Evaporation Rate	0.004 (n-butyl acetate = 1)
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	24.6% (upper); 0.85% (lower)
Vapour Pressure	0.003 kPa (0.023 mm Hg)
Vapour Density (air = 1)	5.59 (calculated)
Relative Density (water = 1)	0.95 at 20 °C
Solubility	Soluble in all proportions in water; Soluble in all proportions in ketones (e.g. acetone).
Partition Coefficient, n-Octanol/Water (Log Kow)	0.56
Auto-ignition Temperature	204 - 225 °C (399 - 437 °F)
Decomposition Temperature	Not available
Viscosity	6.12 - 6.13 mm2/s at 20 °C (kinematic); 5.85 mPa.s at 20 °C (dynamic)
Other Information	
Physical State	Liquid

# SECTION 10. STABILITY AND REACTIVITY

# Reactivity

Not reactive under normal conditions of use.

### **Chemical Stability**

Normally stable.

# **Possibility of Hazardous Reactions**

None known.

# **Conditions to Avoid**

High temperatures. Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 78.0 °C (172.4 °F)

# **Incompatible Materials**

Strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid).

### Hazardous Decomposition Products

Very toxic, flammable aldehydes. ketones organic acids.

# SECTION 11. TOXICOLOGICAL INFORMATION

# Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

# Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Diethylene glycol monobutyl ether	Not available	6560 mg/kg (rat)	2764 mg/kg (male rabbit)

### Skin Corrosion/Irritation

Animal tests show very mild irritation.

Product Identifier:	Glycol Ether DB (Butyl Carbitol)
Date of Preparation:	March 04, 2016

# Serious Eye Damage/Irritation

Animal tests show serious eye irritation.

#### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May be harmful.

# Ingestion

If large amounts are swallowed may cause depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

### **Aspiration Hazard**

No information was located.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause dermatitis. Symptoms may include dry, red, cracked skin (dermatitis).

#### Respiratory and/or Skin Sensitization

No information was located for respiratory sensitization. Not known to be a skin sensitizer.

#### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Diethylene glycol monobutyl ether	Not evaluated	Not Listed	Not Listed	

### **Reproductive Toxicity**

**Development of Offspring** Not known to harm the unborn child.

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

#### Effects on or via Lactation

No information was located.

### Germ Cell Mutagenicity

Not known to be a mutagen.

#### **Interactive Effects**

No information was located.

# **SECTION 12. ECOLOGICAL INFORMATION**

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

# SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal Methods**

Bury in a licensed landfill or burn in an approved incinerator according to federal, provincial/state, and local regulations.

# **SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Special Precautions Not applicable

# Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15. REGULATORY INFORMATION**

### Safety, Health and Environmental Regulations

Product Identifier:Glycol Ether DB (Butyl Carbitol)Date of Preparation:March 04, 2016

# Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

# USA

Toxic Substances Control Act (TSCA) Section 8(b)

Listed on the TSCA Inventory.

# **SECTION 16. OTHER INFORMATION**

NFPA Rating	Health - 1 Flammability - 2 Instabil	ity - 1
SDS Prepared By	Alphachem Limited	
Phone No.	(905)-821-2995	
Date of Preparation	March 04, 2016	
Date of Last Revision	June 22, 2016	
References	CHEMINFO database. Canadian Centre for	Occupational Health and Safety (CCOHS).
Disclaimer	been prepared from the best information cur all-inclusive and the conditions of use may in Alphachem Limited cannot anticipate or con	he safe handling of the above product, and has rently available. It is not intended to be avolve other additional considerations. Since arol the conditions under which the product may be ages or losses which may result from the use or