

## Section 1: Product & Company Information

**Product Identifier:** Glycol Ether DB

**Other Means of Identification**

Product Number: 152250

**Recommended Use and Restrictions on Use**

Recommended Use: No data available.

Restrictions on Use: No data available.

**Manufacturer / Importer / Supplier / Distributor Information**

**Company Name:** CORECHEM Inc.

**Address:** 4320 Greenway Drive  
Knoxville, TN 37918 USA

**Information Telephone Number:** 1-865-524-4239

**Fax Number:** 1-865-524-3375

**Website:** www.corecheminc.com

**Contact Person:** Regulatory Manager

**E-mail:** regulatory@corecheminc.com

**Emergency Phone Number:** Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

## Section 2: Hazards Identification

**GHS Hazard Classification(s)**

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

**Physical Hazard(s)**

**Health Hazard(s)**

(Corrosion) Damage/Irritation, Eye -  
2A

**Environmental Hazard(s)**

Not classified.

**Label Elements**

**Signal Word**

**WARNING**

**Hazard Symbol(s)**



**Hazard Statement(s)**

H227: Combustible liquid.

H319: Causes serious eye Irritation.

H373: May cause damage to organs.

**Precautionary Statements**

**General**

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

**Prevention**

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

## Response

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## Storage

P403 + P235: Store in a well-ventilated place. Keep cool.

## Disposal

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC)**

None known.

## Section 3: Composition/Information on Ingredients

### Substance

| Chemical Identity <sup>2</sup>    | Common Name/Synonym(s) | CAS # <sup>3</sup> | Weight %  | Impurity or Stabilizing Additive |
|-----------------------------------|------------------------|--------------------|-----------|----------------------------------|
| Diethylene Glycol Monobutyl Ether | Glycol Ether DB        | 112-34-5           | 80 – 100% | -                                |

- Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
- Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- “—”Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

## Section 4: First-Aid Measures

### General Information

Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

### Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### Skin Contact

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. Generally, the product does not irritate the skin.

### Eye Contact

Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

### Ingestion

Keep respiratory tract clear. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

#### Symptoms

No data available.

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

#### Hazards

No data available.

#### Treatment

Treat symptomatically. Symptoms may be delayed.

## Section 5: Fire-Fighting Measures

### General Fire Hazards

In case of fire and/or explosion do not breathe fumes. Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk. Water may be ineffective in fighting the fire. Fight fire from a protected location.

## Suitable (and Unsuitable) Extinguishing Media

### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>), Dry chemical, and Foam.

### Unsuitable Extinguishing Media

High volume water jet

## Specific Hazards Arising from the Chemical

Do not allow run-off from fire fighting to enter drains or water courses.

## Special Protective Equipment and Precautions for Firefighters

### Special Fire-Fighting Equipment Procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

### Special Protective Equipment for Fire-Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

## Section 6: Accidental Release Measures

### Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Keep unauthorized personnel away. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

### Methods and Materials for Containment and Clean-Up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### Notification Procedures

Notify authorities if any exposure to the general public or environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained.

### Environmental Precautions

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

## Section 7: Handling and Storage

### Precautions for Safe Handling

Do not breathe vapors/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

### Conditions for Safe Storage, including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

## Section 8: Exposure Controls/Personal Protection

### Control Parameters

#### Occupational Exposure Limits

| Chemical Identity                 | Type | Value  | Source |
|-----------------------------------|------|--------|--------|
| Diethylene Glycol Monobutyl Ether | TWA  | 10 ppm | ACGIH  |

#### Biological Limit Values

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

### Appropriate Engineering Controls

No data available.

### Individual protection measures, such as personal protective equipment (PPE)

#### General Information

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

## Eye/Face Protection

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

## Skin Protection

### Hand Protection

Wear appropriate chemical resistant gloves.

### Other

Wear appropriate chemical resistant clothing.

## Respiratory Protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are un-known, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

## Hygiene Measures

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

## Section 9: Physical and Chemical Properties

### Appearance:

Physical State: Liquid  
Color: Colorless

### Odor:

Faint

### Odor Threshold:

No data available.

### pH:

6 - 7.5 @ 20 - 25 °C (68 - 77 °F)

### Melting Point/Freezing Point:

-68 °C (-90 °F)

### Initial Boiling Point and Boiling

225 - 234 °C (437 - 453 °F)

### Range:

### Flash Point:

105 - 114 °C (221 - 237 °F)

### Evaporation Rate (butyl acetate=1):

0.01

### Flammability (solid, gas):

No data available.

### Upper/Lower Limit on Flammability or Explosive Limits

Flammability Limit - Upper: No data available.

Flammability Limit - Lower: No data available.

Explosive Limit - Upper: 24.6 %(V)

Explosive Limit - Lower: 0.7 %(V)

### Vapor Pressure:

0.02 - 0.022 mmHg @ 20 - 25 °C (68 - 77 °F)

### Vapor Density (air =1):

5.6 @ 20 - 25 °C (68 - 77 °F)

### Relative Density (water=1):

0.95 @ 20 °C (68 °F)

### Solubility(ies):

Solubility in water: Miscible

Solubility (other): No data available.

### Partition coefficient

log Pow: 1

### (n-octanol/water):

### Auto-Ignition Temperature:

210 - 225 °C

### Decomposition Temperature:

No data available.

### Viscosity:

Dynamic: 6 - 6.5 mPa.s @ 20 °C (68 °F)

Kinematic: 5.2 - 6.28 mm<sup>2</sup>/s @ 20 °C (68 °F)

### Other Information:

Molecular Weight: No data available.

Formula: No data available.

## Section 10: Stability and Reactivity

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical Stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

Stable, however, forms peroxides of unknown stability.

**Conditions to Avoid**

Keep away from heat, flame, sparks and other ignition sources.

**Incompatible Materials**

Strong acids, Strong bases, Strong oxidizing agents, and Aluminum.

**Hazardous Decomposition**

**Products**

Carbon oxides, Aldehydes, Ketones, and Organic acids.

**Section 11: Toxicological Information**

**Information on routes of exposure**

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye Contact:** Irritating effect.

**Information on Toxicological Effects**

**Acute Toxicity (List all possible routes of exposure)**

**Oral**

Diethylene Glycol Monobutyl Ether: LD50 (Rat) 5660 mg/kg

**Dermal**

Diethylene Glycol Monobutyl Ether: LD50 (Rabbit) 4000 mg/kg

**Inhalation**

No data available.

**Repeated Dose Toxicity**

No data available.

**Skin Corrosion/Irritation**

No irritant effect.

**Serious Eye Damage/Eye Irritation**

Irritating effect.

**Respiratory/Skin Sensitization**

No sensitizing effects known.

**Carcinogenicity**

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**US. National Toxicology Program (NTP) Report on Carcinogens**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Germ Cell Mutagenicity**

**In Vitro**

No mutagenic components identified.

**In Vivo**

No mutagenic components identified.

**Reproductive Toxicity**

None known.

**Specific Target Organ Toxicity - Single Exposure**

None known.

**Specific Target Organ Toxicity - Repeated Exposure**

None known.

**Aspiration Hazard**

Not classified.

**Other Effects**

None known.

**Section 12: Ecological Information**

**Ecotoxicity**

**Acute Hazards to the Aquatic Environment**

**Fish**

No data available.

**Aquatic Invertebrates**

No data available.

**Toxicity to Aquatic Plants**

No data available.

**Chronic Hazards to the Aquatic Environment**

**Fish**

No data available.

**Aquatic Invertebrates**

No data available.

**Toxicity to Aquatic Plants**

No data available.

**Persistence and Degradability**

**Biodegradation**

There are no data on the degradability of this product.

**BOD/COD Ratio**

No data available.

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)**

No data available on bioaccumulation.

**Partition Coefficient n-octanol / water (log Kow)**

No data available.

**Mobility in Soil**

Not expected to adsorb on soil.

**Other Adverse Effects**

Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Section 13: Disposal Considerations**

**Disposal Instructions**

Collect and reclaim or dispose of sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemicals or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Contaminated Packaging**

Handle contaminated packages in the same way as the substance itself. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.

**Section 14: Transportation Information**

**US Department of Transportation (DOT)**

This material is not regulated as a hazardous material for transport by the U.S. Department of Transportation in accordance with 49 CFR 172.101.

**Section 15: Regulatory Information**

**US Federal Regulations**

**Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)**

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)**

No chemical(s) in this material are subject to the reporting requirements of CERCLA.

**Clean Air Act (CAA), Section 112(r)**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Diethylene glycol monobutyl ether

**Emergency Planning and Community Right-To-Know Act (EPCRA)****EPCRA 302 Extremely Hazardous Substance**

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

**EPCRA 304 Emergency Response Notification**

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

**EPCRA 311/312 Emergency and Hazardous Materials Reporting**

Fire Hazard: Yes

Sudden Release of Pressure: No

Reactive: No

Acute (Immediate) Health: Yes

Hazard:

Chronic (Delayed) Health: No

Hazard:

**EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting**

This material does contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313 including:

Diethylene glycol mono-butyl ether, 2-Butoxy ethanol

**US State Regulations****California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

*Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.*

**Section 16: Other Information****Hazardous Materials Identification System (HMIS®) Classification**

Health Hazard: 2

Chronic Health Hazard: /

Flammability: 1

Physical Hazard: 0

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

**National Fire Protection Association (NFPA 704) Rating**

Health Hazard: 2

Fire Hazard: 1

Reactivity Hazard: 0

Special: N/A

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

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**Key to Abbreviations and****Acronyms**

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

EC50 - Effective concentration, 50%

IDHL - Immediately Dangerous to Life and Health

Kg - Kilogram

l - Liter

lb - Pound

ACGIH - American Conference of Industrial Hygienists

AIHA - American Industrial Hygiene Association

BEI - Biological Exposure Indices

CAS - Chemical Abstracts Service

DOT - US Department of Transportation

EPA - US Environmental Protection Agency

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

mg - milligram

ml - milliliter

N/A - Not Applicable

N/D - Not Determined

PEL - Permissible Exposure Limit

REL - Recommended Exposure Limit

STEL - Short-term Exposure Limit

TWA - Time weighted average

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - US Occupational Health and Safety Administration

SARA - US EPA Superfund Amendments and Reauthorization Act

TSCA - US EPA Toxic Substances Control Act

UN - United Nations

## References

HSDB® - Hazardous Substances Data Bank

## Disclaimer

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