



GLYCOL ETHER HB

Safety Data Sheet

In accordance with the Republic of the Philippines Department of Labor and Employment Department Order No. 136-14 Series of 2014, and Rules and Procedures for the Safety Data Sheet (SDS), Labeling Requirements and Hazards Classification under DENR Administrative Order No. 29, Series of 1992 of Republic Act 6969 for the Adoption and Implementation of the Globally Harmonized System (GHS)
Revision Date: 04/28/2016 Date of Issue: 04/28/2016 Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Substance

Product Name: GLYCOL ETHER HB

CAS No: 161907-77-3

Synonyms: Glycol Ether Butyl Heavies

Intended Use of the Product

Hydraulic fluids

Name, Address, and Telephone of the Responsible Party

Company

Third Coast Chemicals

P.O. Box 239

Pearland, TX 77588

T 281-412-0275

www.thirdcoastchemicals.com

Emergency Telephone Number

Emergency number : +1-800-424-9300

CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-PH)

Acute Tox. 5 (Dermal) H313

Eye Dam. 1 H318

Label Elements

GHS-PH Labeling

Hazard Pictograms (GHS-PH) :



GHS05

Signal Word (GHS-PH) :

Danger

Hazard Statements (GHS-PH) :

H313 - May be harmful in contact with skin

H318 - Causes serious eye damage

Precautionary Statements (GHS-PH) :

P280 - Wear protective gloves, protective clothing, and eye protection.

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

P310 - Immediately call a POISON CENTER or doctor.

P312 - Call a POISON CENTER or doctor if you feel unwell.

Other Hazards

Other Hazards: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-PH) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Name : GLYCOL ETHER HB

CAS No : 161907-77-3

Name	Concentration (%)	CAS No
Ethanol, 2-butoxy-, manufacture of, by-products from	100	(CAS No) 161907-77-3
Composition of the above		

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3,6,9,12-Tetraoxahexadecan-1-ol	10 - 70	(CAS No) 1559-34-8
Triethylene glycol monobutyl ether	50 - 65	(CAS No) 143-22-6
Diethylene glycol monobutyl ether	3 - 10	(CAS No) 112-34-5

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Get immediate medical advice/attention.

Personal Protection in First Aid and Measures: Not available

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye damage. May be harmful in contact with skin.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: May be harmful in contact with skin. Prolonged exposure may cause skin irritation.

Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not allow run-off from firefighting to enter drains or water sources. Do not breathe fumes or vapors from fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

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Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: strong acids. Strong bases. Strong oxidizers.

Specific End Use(s)

Hydraulic fluids

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Diethylene glycol monobutyl ether (112-34-5)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm (inhalable fraction and vapor)

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Environmental Exposure Controls: Avoid release to the environment.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Light tan
Odor	: Mild
Odor Threshold	: Not available

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pH	: 7 - 10 (in water)
Melting Point	: Not available
Freezing Point	: -20 °C (-4 °F)
Boiling Point	: 250 °C (482 °F)
Flash Point	: > 140 °C (> 284 °F) (PMCC)
Auto-ignition Temperature	: > 200 °C (> 392 °F)
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: < 0.01 mm Hg
Relative Vapor Density at 20 °C	: 6.5
Relative Density	: 0.99 (at 20 °C)
Specific Gravity	: Not available
Solubility	: Soluble in water.
Partition Coefficient: N-Octanol/Water	: 0.44
Viscosity	: 9.2 mPa.s (at 25 °C)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Mineral acids.

Hazardous Decomposition Products: Thermal decomposition generates: Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: May be harmful in contact with skin.

LD50 and LC50 Data:

GLYCOL ETHER HB (161907-77-3)	
ATE UN (dermal)	4,467.90 mg/kg bodyweight

Skin Corrosion/Irritation: Not classified

pH: 7 - 10 (in water)

Serious Eye Damage/Irritation: Causes serious eye damage

pH: 7 - 10 (in water)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: May be harmful in contact with skin. Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

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LD50 and LC50 Data:

Ethanol, 2-butoxy-, manufacture of, by-products from (161907-77-3)	
LD50 Oral Rat	> 2000 mg/kg
Triethylene glycol monobutyl ether (143-22-6)	
LD50 Oral Rat	5300 mg/kg
LD50 Dermal Rabbit	3480 mg/kg
3,6,9,12-Tetraoxahexadecan-1-ol (1559-34-8)	
LD50 Oral Rat	5175 mg/kg
LD50 Dermal Rat	> 4000 mg/kg
Diethylene glycol monobutyl ether (112-34-5)	
LD50 Oral Rat	5660 mg/kg
LD50 Dermal Rabbit	2700 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Not classified.

Ethanol, 2-butoxy-, manufacture of, by-products from (161907-77-3)	
EC50 Daphnia 1	> 3200 mg/l (Exposure Time: 48 h - Species: Daphnia magna[semi-static])
NOEC chronic crustacea	1800 mg/l (Exposure Time: 48 h - Species: Daphnia magna[semi-static])
Triethylene glycol monobutyl ether (143-22-6)	
LC50 Fish 1	2400 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	2400 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
3,6,9,12-Tetraoxahexadecan-1-ol (1559-34-8)	
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Diethylene glycol monobutyl ether (112-34-5)	
LC50 Fish 1	1300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence and Degradability

GLYCOL ETHER HB (161907-77-3)	
Persistence and Degradability	Not established.

Bioaccumulative Potential

GLYCOL ETHER HB (161907-77-3)	
Bioaccumulative Potential	Not established.
Triethylene glycol monobutyl ether (143-22-6)	
BCF Fish 1	(no significant bioaccumulation)
Log Pow	0.51 (at 25 °C)
3,6,9,12-Tetraoxahexadecan-1-ol (1559-34-8)	
BCF Fish 1	(no significant bioaccumulation)
Diethylene glycol monobutyl ether (112-34-5)	
BCF Fish 1	(no bioconcentration expected)

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not empty into drains. Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations

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Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In Accordance with UNRTDG Not regulated as hazardous material for transport

In Accordance with IMDG Not regulated as hazardous material for transport

In Accordance with IATA Not regulated as hazardous material for transport

Special Precautions for User Avoid release to the environment.

Transport in Bulk (According to Annex II of Marpol 73/78 and IBC code) Not available

SECTION 15: REGULATORY INFORMATION

National Regulations

Ethanol, 2-butoxy-, manufacture of, by-products from (161907-77-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Triethylene glycol monobutyl ether (143-22-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on Turkish inventory of chemical

3,6,9,12-Tetraoxahexadecan-1-ol (1559-34-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on Turkish inventory of chemical

Diethylene glycol monobutyl ether (112-34-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Ingredient Disclosure List :

Disclosure at 1 % according to The Ingredient Disclosure List

International Agreements

No additional information available

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Philippines Regulations

No additional Information available

SECTION 16: OTHER INFORMATION

Revision date : 04/28/2016

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Phillipines GHS SDS