

Date of Revision: April 1, 2025

Section 1 - Chemical Product and Company Identification

Product Name EGMBE

Synonyms Ethylene glycol monobutyl ether; 2-Butoxyethanol; Glycol ether EB; Butyl

cellosolve; Butyl glycol

Product Use Solvent, cleaner, degreaser

Restriction on UseNone identified **Manufacturer/Supplier**CFR Chemicals

38451 Range Road 22

County of Red Deer T4E 2N6

General Assistance 1 (877) 269-3419

Emergency Telephone Not Dangerous Goods – Call General Assistance

Date of Preparation of SDS April 1, 2017

Section 2 – Hazard Identification

Signal Word GHS Pictogram(s)

Warning



Target Organs Blood, Kidney, Liver, Central nervous system, Testes.

WHMIS Classification

B3 Combustible Liquid

D2B Toxic Material Causing Other Toxic Effects

Hazard Statement:

H227 Combustible Liquid.

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statement

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources.

No smoking

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Response

P321 Specific Treatment: See this Label

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse Mouth

P302 + P352 IF ON SKIN: Wash with plenty of water.

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



Date of Revision: April 1, 2025

P362 + P364 Take off contaminated clothing and wash it before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 if eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.

Storage

P403 +P235 Store in well-ventilated place. Keep Cool

Disposal

P501 Dispose of contents/container to an approved waste disposal unit.

GHS Classification Flammable liquids (Category 4)

> Acute toxicity, Oral (Category 4) Acute toxicity, Inhalation (Category 4) Acute toxicity, Dermal (Category 4) Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2A)

HMIS Classification

2 **Health Hazard Chronic Health Hazard Flammability Physical Hazards** 0

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin. Causes skin irritation.

Eye Causes eye irritation.

May be harmful if swallowed. Ingestion

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT Hazardous Ingredient, Synonyms PERCENT CAS NUMBER Ethylene Glycol Monobutyl Ether ≤100% 111-76-2

EGMBE; 2-Butoxyethanol; Glycol ether EB; Butyl

cellosolve; Butyl glycol

* = Various ** = Mixture *** = Proprietary

Chemical Formula C₆H₁₄O₂

Section 4 - First Aid Measures

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a **Eye Contact**

physician.

Skin Contact Wash off with plenty of water. Consult a physician.



Date of Revision: April 1, 2025

Ingestion DO NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Consult a physician.

Most Important Symptoms/Effects

Acute Human exposure above 200 ppm can be expected to cause narcosis, damage to

the kidney and liver and present an abnormal blood picture showing

erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings.,

Central nervous system depression, Headache, narcosis

Delayed No data available
Note to Physician Not Applicable

Section 5 – Fire-Fighting Measures

Flash Point (°C) 67°C
Flash Point Method PMCC
Auto Ignition Temperature 245°C

Conditions of Flammability Flammable in the presence of a source of ignition when the temperature is above

the flash point. Keep away from heat/sparks/open flame/ hot surface. No

smoking.

Extinguishing MediaUse water spray, alcohol-resistant foam, dry chemical or carbon dioxide fog.

Unsuitable Extinguising Media None.

Unusual Fire/

Explosion Hazard No data available.

Hazardous Combustion

Products Carbon oxides

Special Protective Equipment and

Precautions for Firefighters Wear full firefighting gear and self-contained breathing apparatus (SCBA) for

protection against possible exposure if necessary.

Section 6 – Accidental Release Measures

Personal precautionsUse personal protective equipment. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe $% \left(1\right) =\left(1\right) \left(1\right)$

areas. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter

drains. Discharge into the environment must be avoided.

Methods and materials for

containment and cleaning up Contain free liquid if possible. Pick up by covering with an activated carbon

absorbent or other suitable inert absorbent material (e.g. sand, sawdust, generalpurpose binder). Take up & place in closed containers. Ventilate area & wash spill site after material pickup is complete. Contain and dispose of wash water in

accordance with local regulations.



Date of Revision: April 1, 2025

Section 7 – Handling and Storage

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away

from sources of ignition - No smoking. Take measures to prevent the build-up of

electrostatic charge.

Conditions for safe storage Keep container tightly closed in a dry and well-ventilated place.

Incompatible ConditionsHeat, flames and sparks.Incompatible MaterialsStrong oxidizing agents.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name Exposure Limits

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

Ethylene Glycol Monobutyl Ether

TWA: 20ppm

ACGIH TLV TWA: 20ppm

Personal protective equipment

Eye/face protection Chemical safety glasses with side shields to prevent eye contact. As a general rule

do not wear contact lenses when handling chemicals.

Skin protection Wear chemical resistant gloves, impermeable protective clothing and safety

shoes.

Respiratory protection

General hygiene

Use NIOSH approved respirators and components.

Considerations Handle in accordance with good industrial hygiene and safety.

shower, eye wash, and fire extinguisher should be present.

Section 9 - Physical and Chemical Properties

Physical State	Liquid	Water Solubility	Soluble
Appearance & Odour	Clear, colourless, sweet alcohol-like smell	Boiling Point	Not applicable
Vapour Pressure	0.2 mmHg @ 20.0°C	Boiling Range	169 – 172°C
Odour Threshold	Not available.	Melting Point	-75°C
Evaporation Rate	Not available.	Freezing Point	-75°C
Vapour Density	4.8	Lower Explosive Limit (LEL)	1.1 %
Specific Gravity	0.902	Upper Explosive Limit (UEL)	12.7 %
рН	Not available.	Partition coefficient (n- octonal/water)	2.9
Flammability (Solid, Gas)	Not applicable.		
Decomposition Temperature	Not available.	Viscosity	3.642mm2/s @ 20°C



Date of Revision: April 1, 2025

Section 10 – Stability and Reactivity

Reactivity Containers may rupture or explode if exposed to heat. **Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid Heat, flames and sparks. **Materials to avoid** Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon

oxides. Other decomposition products - No data available

Section 11- Toxicological Information

Information on Likely Routes of Exposure

Inhalation Causes respiratory tract irritation.

Skin contactCauses skin irritation.Eye contactCauses eye irritation.

Ingestion May be harmful if swallowed.

Acute and Chronic Toxicity No data available

Acute toxicity

Product/IngredientResultSpeciesDoseExposureNameEthylene GlycolLD50 OralRat880mg/kg-Monobutyl EtherLD50 DermalRabbit1060mg/kg-

Skin corrosion/irritation Skin - Rabbit - Skin irritation - 24 h - OECD Test Guideline 404

Serious eye damage/eye irritation

Eyes - Rabbit - Moderate eye irritation - 24 h

Respiratory or skin sensitization

No data available No data available

Carcinogenicity

Germ cell Mutagenicity

IARC: Group 3: Not classifiable as to its carcinogenicity in humans (2-Butoxyethanol)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

Reproductive toxicityNo data available. **Teratogenicity**No data available.

Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard No data available

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

Short Term Exposure

Potential immediate Health Effects

No data available.

Potential Delayed Health Effects

No data available.

Long Term Exposure



Date of Revision: April 1, 2025

Potential immediate Health EffectsNo data available.Potential Delayed Health EffectsNo data available.Potential Chronic EffectsNo data available.

Synergistic effects No data available

Section 12 - Ecological Information

Toxicity

Product / Ingredient NameResultSpeciesExposure2-EthylhexanolAcute LC50 1474mg/LFish – Oncorhynchus mykiss96 HrAcute EC50 - 1550mg/LDaphnia – Daphnia magna48 Hr

Persistence and degradability

Biodegradability Aerobic

Result: 94% - Readily biodegradable Method: OECD Test Guideline 301C

Bioaccumulative potentialNo data availableMobility in soilNo data availablePBT and vPvB assessmentNo data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional

handling or disposal. Harmful to aquatic life.

Section 13 - Disposal Considerations

Product This combustible material may be burned in a chemical incinerator equipped with

an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service

to dispose of this material.

Contaminated packaging Dispose of as unused product.

Section 14 - Transportation Information

CANADA Transportation of Dangerous Goods (TDG)

Not Dangerous Goods

Section 15 - Regulatory Information

DSL (Canadian Domestic Substances List)

and CEPA (Canadian Environmental Protection Act)

All components of this product are in compliance with the chemical notification

requirements of the NSN Regulations under CEPA, 1999.

TSCA Inventory All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.



Date of Revision: April 1, 2025

Section 16 – Other Information

REVISION SUMMARY:

Date of Preparation April 1, 2017
Date of Revision April 1, 2025

SDS Prepared by: CFR Lab Manager

CFR Chemicals Inc. provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. CFR Chemicals Inc. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, CFR CHEMICALS INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OR RELIANCE UPON THIS INFORMATION.