

Section 1: Product & Company Information

Product Identifier: Glycol Ether EEP

Other Means of Identification

Product Number: 152252

Recommended Use and Restrictions on Use

Recommended Use: Solvent

Restrictions on Use: None known.

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)

Flammable, Liquids - 3

Health Hazard(s)

Not classified.

Environmental Hazard(s)

Not classified.

Label Elements

Signal Word

WARNING

Hazard Symbol(s)



Hazard Statement(s)

H226: Flammable liquid and vapor.

Precautionary Statements

General

Not applicable.

Prevention

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

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

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)

Potential peroxide former.

Section 3: Composition/Information on Ingredients

Substance

Chemical Identity ²	Common Name/Synonym(s)	CAS # ³	Weight %	Impurity or Stabilizing Additive
Ethyl 3-Ethoxypropionate		763-69-9	99.5-100%	No

- 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

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

Inhalation

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

Skin Contact

Immediately wash with soap and water. Get medical attention promptly if irritation develops or persists. Remove contaminated shoes and clothing and clean before reuse.

Eye Contact

Remove contact lenses if worn. Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

Ingestion

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Call a poison center/doctor/physician if you feel unwell.

Most important symptoms/effects, acute and delayed Symptoms

No known chronic or acute health risks.

Indication of immediate medical attention and special treatment needed

Hazards

None known.

Treatment

Treat symptomatically.

Section 5: Fire-Fighting Measures

General Fire Hazards

Flammable liquid and vapor. USE WATER WITH CAUTION. Material will float and may ignite on surface of water.

Suitable (and Unsuitable) Extinguishing Media**Suitable Extinguishing Media**

Water spray, carbon dioxide, dry chemical, foam

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Chemical

Vapors can travel to a source of ignition and flash back. Empty containers retain product residue. (Liquid and or vapor and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

Special Protective Equipment and Precautions for Firefighters**Special Fire-Fighting Equipment Procedures**

As in any fire, wear self-contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent.) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Use water with caution. Material will float and may ignite o the surface of the water. Water may be ineffective in fighting the fire. Water spray to cool containers or protect personnel. Use with caution. Avoid use of solid water streams.

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. See Section 8 of the SDS for 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). Evacuate area.

Methods and Materials for Containment and Clean-Up

Absorb spill with inert material. (e.g. dry sand or earth.) combustible material for cleanup. Use clean, non-sparking tools to collect absorbed materials. Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Stay upwind of spill. Ventilate spill area. Collect spilled materials for disposal. Flush spill area with water spray. Wear appropriate personal protective equipment (See exposure controls/ personal protection section.)

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions

Avoid release to the environment.

Section 7: Handling and Storage**Precautions for Safe Handling**

Ensure good ventilation of the workstation.

Keep away from naked flames/heat. At temperature > flashpoint: use spark --/explosion proof appliances. In finely divided state: use spark/explosion proof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately.

Clean contaminated clothing. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion proof equipment. Wear person al protective equipment.

Conditions for Safe Storage, including any Incompatibilities

Keep away from heat, sparks and flames. Keep container closed when not in use. Protect from direct sunlight. Store containers in a well-ventilated place. Do not allow to evaporate to near dryness.

Section 8: Exposure Controls/Personal Protection**Control Parameters****Occupational Exposure Limits**

The product does not contain any relevant quantities of hazardous materials with assigned occupational exposure limits.

Biological Limit Values

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

Appropriate Engineering Controls

Ensure good ventilation of the work-station. Use adequate ventilation to keep airborne concentrations low. An emergency eye wash / shower must be accessible to the work area.

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

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Hygiene Measures

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash hands before reuse. Avoid breathing vapors. Do not eat, drink, or smoke in areas where this material is used.

Section 9: Physical and Chemical Properties

Appearance:

Physical State: Liquid
Color: Colorless

Odor: Fruity odor, mild

Odor Threshold: 0.02 ppm

pH: No data available.

Melting Point/Freezing Point: No data available.

Initial Boiling Point and Boiling Range: 165 - 172 °C (1013 hPa)

Flash Point: 59 °C (Test data, 1013 hPa)

Evaporation Rate (butyl acetate=1): 0.1

Flammability (solid, gas): No applicable.

Upper/Lower Limit on Flammability or Explosive Limits

Flammability Limit – Upper: No data available.

Flammability Limit – Lower: No data available.

Explosive Limit – Upper: 9.8 % (V)

Explosive Limit – Lower: 1.05 % (V)

Vapor Pressure: 2.3 hPa (20 °C)

Vapor Density (air =1): Heavier than air

Relative Density (water=1): 949 kg/m³

Solubility(ies):

Solubility in water: Moderately soluble in water.

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Pow: 22.4 log Pow: 1.35

Auto-Ignition Temperature: 377 °C (ASTM E659)

Decomposition Temperature: (HPDTA) No exotherm to 400°C

Viscosity: 1.20 mPa.s (25 °C)

Other Information:

Molecular Weight: No data available.

Formula: No data available.

Section 10: Stability and Reactivity

Reactivity

Flammable liquid and vapor.

Chemical Stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

No dangerous reactions known under normal conditions of use

Conditions to Avoid

Avoid excess heat and sources of ignition. No flames, no sparks. Minimize exposure to air.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition

Products

During combustion carbon monoxide may be formed. During combustion, carbon dioxide may be formed. May form peroxides of unknown stability.

Section 11: Toxicological Information

Information on routes of exposure

Ingestion: AFTER INGESTION OF HIGH QUANTITIES: Gastrointestinal complaints.

Inhalation: Negligible hazard at ambient temperatures. EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Irritation of the respiratory tract.

Irritation of the nasal mucous membranes. Nausea. Headache.

Skin Contact: Prolonged or repeated contact can result in defatting and drying of the skin. Which may result in skin irritation or dermatitis.

Eye Contact: Irritation of the eye tissue. Redness of the eye tissue.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

Ethyl 3-Ethoxypropionate: LD-50: (Rat): 5,000 mg/kg

Dermal

Ethyl 3-Ethoxypropionate: LD-50: (Rabbit): 4,076 mg/kg

Inhalation

Ethyl 3-Ethoxypropionate: LC50 (Rat): >20 mg/L

Repeated Dose Toxicity

Ethyl 3-Ethoxypropionate: NOAEL (Rat, by gavage, 28 d): 1,000 mg/kg

Ethyl 3-Ethoxypropionate: NOAEL (Rat, Inhalation study: 90 d): 500 ppm

Skin Corrosion/Irritation

Prolonged or repeated contact can result in defatting and drying of the skin, which may result in dermatitis or a rash.

Serious Eye Damage/Eye Irritation

No Significant health hazard is identified.

Respiratory/Skin Sensitization

Non-sensitizing.

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

Mutagenicity - Bacterial: negative

Chromosomal aberration: negative

Mutagenicity - Mammalian: negative

In Vivo

No mutagenic components identified.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity – Single Exposure

No data available.

Specific Target Organ Toxicity – Repeated Exposure

No data available.

Aspiration Hazard

No data available.

Other Effects

No data available.

Ecotoxicity

Acute Hazards to the Aquatic Environment

Fish

Ethyl 3-Ethoxypropionate: LC-50 (Fish, 96 h): 143.63 mg/l

Aquatic Invertebrates

Ethyl 3-Ethoxypropionate: EC-50 (daphnid, 48 h): 873 mg/l

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

Ethyl 3-Ethoxypropionate: EC-50 (Alga, 72 h): > 114.86 mg/l

Ethyl 3-Ethoxypropionate: NOEC: (Alga, 72 h): >= 114.86 mg/l

Persistence and Degradability

Biodegradation

100 % (28 d, Ready Biodegradability: CO2 Evolution Test) Readily biodegradable

BOD/COD Ratio

No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)

Log Pow: 1.25

Log Kow < 4

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

Section 13: Disposal Considerations

Disposal Instructions

Dispose of waste in accordance with all local, state and federal regulations. Absorb spill with inert material (e.g. dry sand or earth.) then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Use only noncombustible material for cleanup. Use clean, non-sparking tools to collect the absorbed material. Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Stay upwind of spill. Ventilate spill area. Collect spilled materials for disposal. Flush spill area with water spray. Wear appropriate personal protective equipment. (See exposure controls/personal protection section.)

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.

US Department of Transportation (DOT)

UN Number: UN3272
UN Proper Shipping Name: Combustible liquid, n.o.s. (ethyl 3 ethoxypropionate)-Combustible Liquid
Technical Name: -
Hazard Class: 3
Subsidiary Hazard Risk: -
Packing Group: III
DOT Label/Placard Exemptions: 49CFR 173.150(f) Combustible liquids.
(1) A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable.
(2) The requirements in this subchapter do not apply to a material classed as a combustible liquid in a non-bulk packaging unless the combustible liquid is a hazardous substance, a hazardous waste, or a marine pollutant.
Special Provisions: B1, IB3, T4, TP1, TP29
Packaging Exceptions: 49CFR 173.150
Packaging Non-Bulk: 49CFR 173.203
Packaging Bulk: 49CFR 173.242
Reportable Quantity (RQ): None
Marine Pollutant: No
Poison Inhalation Hazard: No
Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Emergency Response Guidebook (ERG) #: 127

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

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)

This product has been reviewed according to the EPA Hazard categories promulgated under sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA title III.) and is considered, under applicable definitions to meet the following categories:
Fire Hazard.

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

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

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 Hazard: No
Chronic (Delayed) Health Hazard: No

EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

This material does not contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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.

Hazardous Materials Identification System (HMIS®) Classification**Health Hazard: 1****Chronic Health Hazard: /****Flammability: 2****Physical Hazard: 0**

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

National Fire Protection Association (NFPA 704) Rating**Health Hazard: 0****Fire Hazard: 2****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

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

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

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

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