

Glycol Ether EPH

SDS Revision Date (mm/dd/yyyy): 02/22/2024

Page 1 of 9

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Glycol Ether EPH**

Other means of identification : Not available.

Recommended use of the chemical and restrictions on use

: Antifreeze; Plasticiser; Solvent
Use pattern: Professional Use Only
Restriction on use: None known

Chemical family

: Glycols.

**Name, address, and telephone number
of the supplier:**

Comet Chemical Company Ltd.

3463 Thomas Street
Innisfill, ON, Canada
L9S 3W4

Supplier's Telephone #

: (705) 436-5580

24 Hr. Emergency Tel #

: GFL Environmental - 1-888-772-2543

**Name, address, and telephone number of
the manufacturer:**

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear colourless liquid. Mild glycol odor

Most important hazards: Harmful if swallowed. Causes serious eye irritation.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Acute toxicity, oral - Category 4

Serious eye damage/eye irritation - Category 2A

Label elements

Hazard pictogram(s)



Signal Word

Warning!

Hazard statement(s)

Harmful if swallowed.
Causes serious eye irritation.

Glycol Ether EPH

SDS Revision Date (mm/dd/yyyy): 02/22/2024

Page 2 of 9

SAFETY DATA SHEET

Precautionary statement(s)

Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear eye/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
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/attention.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:
May cause skin and respiratory irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

| Chemical name | Common name and synonyms | CAS # | Concentration (% by weight) |
|------------------------------|--------------------------|----------|-----------------------------|
| Ethylene glycol phenyl ether | 2-phenyloxyethanol | 122-99-6 | >99.5 |

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Call a physician or poison control centre immediately. Induce vomiting ONLY under the direct supervision of qualified medical personnel or a poison control centre. Never give anything by mouth to an unconscious person.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Get medical attention if symptoms persist.
- Skin contact* : Immediately flush with plenty of water, while removing contaminated clothing. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
- Eye contact* : Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses if worn, and continue flushing for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.

Most important symptoms and effects, both acute and delayed

- : Harmful if swallowed. Causes serious eye irritation. Symptoms may include tearing, redness and discomfort.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Burning produces obnoxious and toxic fumes. May form explosive peroxides. Rate of peroxide formation is not known.

Glycol Ether EPH

SDS Revision Date (mm/dd/yyyy): 02/22/2024

Page 3 of 9

SAFETY DATA SHEET

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

: Carbon monoxide, carbon dioxide, aldehydes, ketones, and hydrocarbons.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

: Ventilate the area. Stop spill or leak at source if safely possible. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

Special spill response procedures

: In Canada: For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC).
US CERCLA Reportable quantity (RQ): None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Wear eye/face protection. Use with adequate ventilation. Avoid breathing mist or vapor. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from extreme heat and flame. Keep container tightly closed when not in use. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Protect from moisture.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. May form explosive peroxides. Rate of peroxide formation is not known.

Incompatible materials : Strong bases ; Strong oxidizing agents; Strong acids.

Glycol Ether EPH

SDS Revision Date (mm/dd/yyyy): 02/22/2024

Page 4 of 9

SAFETY DATA SHEET

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Exposure Limits:</u> | | | |
|--------------------------------|-------------------------|--------------------|--------------------------------------|
| <u>Chemical Name</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> |
| | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> <u>STEL</u> |
| Ethylene glycol phenyl ether | N/Av | N/Av | N/Av N/Av |

Exposure controls

Ventilation and engineering measures

: Use sufficient mechanical ventilation to maintain exposures below the TLV. Use local exhaust if mist or spray is generated.

Respiratory protection

: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection

: Wear protective gloves. Advice should be sought from glove suppliers.

Eye / face protection

: Wear eye/face protection. Chemical goggles are recommended when there is a potential for splashing.

Other protective equipment

: Emergency showers and eyewash facilities should be nearby. Wear a chemically resistant apron and long sleeves when dispensing, to prevent skin contact.

General hygiene considerations

: Avoid breathing mist or vapor. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------------------|
| Physical State | : Liquid |
| Colour | : Clear, colorless. |
| Odour | : Mild odour. |
| Odour threshold | : N/Av |
| pH | : 5-7 |
| Melting Point/Freezing point | : Not available. |
| Initial boiling point and boiling range | : 244°C (471.2°F) |
| Flash point | : 126°C (258.8°F) |
| Flashpoint (Method) | : closed cup |
| Evaporation rate (BuAe = 1) | : <0.01 |
| Flammability | : Not applicable. |
| Lower explosion or flammability limit (% by vol.) | : 0.95% |
| Upper explosion or flammability limit (% by vol.) | : Not available. |
| Oxidizing properties | : None known. |
| Explosive properties | : May form explosive peroxides. |
| Vapour pressure | : 0.01 hPa |
| Relative vapour density | : 4.77 |

Glycol Ether EPH

SDS Revision Date (mm/dd/yyyy): 02/22/2024

Page 5 of 9

SAFETY DATA SHEET

Relative density / Specific gravity

: 1.10

Solubility in water : Complete

Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: 1.16

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Particle characteristics : Not applicable.

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Av

Flame projection length : N/Av

Other physical/chemical comments

: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under normal conditions. Material is hygroscopic and may absorb moisture from air. May form explosive peroxides. Rate of peroxide formation is not known. Direct sunlight or heat may accelerate the release of peroxides.

Possibility of hazardous reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : Protect from moisture. Avoid excessive heat, sparks and open flame. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

Incompatible materials : Strong oxidizing agents; Strong acids; Strong alkalis

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption
: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath.

Sign and symptoms ingestion

Glycol Ether EPH

SDS Revision Date (mm/dd/yyyy): 02/22/2024

Page 6 of 9

SAFETY DATA SHEET

- : Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Sign and symptoms skin* : May cause mild skin irritation. Product may be absorbed and cause symptoms similar to those listed for ingestion.
- Sign and symptoms eyes* : Causes serious eye irritation. Symptoms may include tearing, redness and discomfort.
- Potential Chronic Health Effects**
- : Could cause cyanosis (bluish discoloration of the skin due to deficient oxygenation of the blood). Prolonged overexposure may cause liver and kidney effects.
- Mutagenicity** : Not expected to be mutagenic.
- Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects & Teratogenicity**
- : Not expected to cause reproductive effects.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Specific target organ effects** : This material is not classified as hazardous under U.S. OSHA regulations (29 CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
- Medical conditions aggravated by overexposure**
- : Pre-existing skin or eye disorders, and impaired liver or kidney functions.
- Synergistic materials** : Not available.
- Toxicological data** : See below for toxicological data on the substance.

| <u>Chemical name</u> | <u>LC₅₀(4hr)</u> | <u>LD₅₀</u> | |
|------------------------------|------------------------------------|------------------------|-------------------------|
| | <u>inh, rat</u> | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| Ethylene glycol phenyl ether | >1000mg/m ³ (no deaths) | 1260 mg/kg | 14422 mg/kg |

Other important toxicological hazards

- : None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

| <u>Ingredients</u> | <u>CAS #</u> | <u>Toxicity to Fish</u> | | |
|------------------------------|--------------|--------------------------|-------------------------|-----------------|
| | | <u>LC50 / 96h</u> | <u>NOEC / 21 day</u> | <u>M Factor</u> |
| Ethylene glycol phenyl ether | 122-99-6 | 344mg/L (Fathead minnow) | 23mg/L (Fathead minnow) | None. |

| <u>Ingredients</u> | <u>CAS #</u> | <u>Toxicity to Daphnia</u> | | |
|------------------------------|--------------|----------------------------|--------------------------|-----------------|
| | | <u>EC50 / 48h</u> | <u>NOEC / 21 day</u> | <u>M Factor</u> |
| Ethylene glycol phenyl ether | 122-99-6 | 488mg/L (Daphnia magna) | 9.43mg/L (Daphnia magna) | None. |



Comet Chemical Company Ltd.
3463 Thomas Street
Innisfill, ON, Canada, L9S 3W4
Telephone: (705) 436 5580

Glycol Ether EPH

SDS Revision Date (mm/dd/yyyy): 02/22/2024

Page 7 of 9

SAFETY DATA SHEET

| Ingredients | CAS # | Toxicity to Algae | | |
|------------------------------|----------|-----------------------|-------------------------|----------|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Ethylene glycol phenyl ether | 122-99-6 | 429mg/L (Green algae) | >500 mg/L (Green algae) | None. |

Persistence and degradability

: Readily biodegradable.

Bioaccumulation potential

: No data is available on the product itself.

| Components | Partition coefficient n-octanol/water (log Kow) | Bioconcentration factor (BCF) |
|--|---|-------------------------------|
| Ethylene glycol phenyl ether (CAS 122-99-6) | 1.16 at 25 °C | 0.3493 |

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle waste according to recommendations in Section 7.

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

| Regulatory Information | UN Number | UN proper shipping name | Transport hazard class(es) | Packing Group | Label |
|----------------------------------|---|-------------------------|----------------------------|---------------|-------|
| 49CFR/DOT | None | Not regulated. | Not regulated | none | |
| 49CFR/DOT Additional information | If the quantity of Ethylene glycol is greater than 5000 pounds per container, the following DOT shipping description applies: RQ UN3082, Environmentally hazardous substances, liquid, n.o.s. (Ethylene glycol), 9, III. | | | | |
| TDG | None | Not regulated. | Not regulated | none | |
| TDG Additional information | None. | | | | |

Special precautions for user : None known or reported by the manufacturer.

Environmental hazards

: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Glycol Ether EPH

SDS Revision Date (mm/dd/yyyy): 02/22/2024

Page 8 of 9

SAFETY DATA SHEET

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

| <u>Ingredients</u> | CAS # | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical | |
|------------------------------|----------|----------------|--|--|---|--------------------------|
| | | | | | Toxic Chemical | de Minimis Concentration |
| Ethylene glycol phenyl ether | 122-99-6 | Yes | N/Ap | N/Av | No | No |

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u> | CAS # | California Proposition 65 | | State "Right to Know" Lists | | | | | |
|------------------------------|----------|---------------------------|------------------|-----------------------------|----|----|----|----|----|
| | | Listed | Type of Toxicity | CA | MA | MN | NJ | PA | RI |
| Ethylene glycol phenyl ether | 122-99-6 | No | N/Ap | No | No | No | No | No | No |

Canadian Information:

All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

| <u>Ingredients</u> | CAS # | European EINECs | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|------------------------------|----------|-----------------|----------------|-------------------|---------------------------|-----------------|-------------|----------------|
| Ethylene glycol phenyl ether | 122-99-6 | 204-589-7 | Present | Present | (9)-1277; (7)-78; (3)-558 | KE-28257 | Present | HSR003045 |

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CNS: Central Nervous System
 COC: Cleveland Open Cup
 CSA: Canadian Standards Association
 DOT: Department of Transportation
 EPA: Environmental Protection Agency
 IARC: International Agency for Research on Cancer
 LC: Lethal Concentration
 LD: Lethal Dose
 N/Ap: Not Applicable
 N/Av: Not Available

Glycol Ether EPH

SDS Revision Date (mm/dd/yyyy): 02/22/2024

Page 9 of 9

SAFETY DATA SHEET

NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TLV: Threshold Limit Values
TWA: Time Weighted Average

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices2. ECHA - European Chemical Agency3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases4. Safety Data Sheets from manufacturer.5. US EPA Title III List of Lists 6. California Proposition 65 List 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

Preparation Date (mm/dd/yyyy)

: 06/15/2016

Reviewed Date SDS (dd/mm/yyyy)

: 22/02/2024

Revision No.

: 2

Revision Information

: 1. IDENTIFICATION 5. FIRE-FIGHTING MEASURES 9. PHYSICAL AND CHEMICAL PROPERTIES 15. REGULATORY INFORMATION

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

| | |
|--|---|
| <p><u>Prepared for:</u> Comet Chemical Company Ltd. 3463 Thomas Street Innisfill, ON L9S 3W4 Information (M-F 8:00-5:00): 705-436-5580 www.cometchemical.com</p> |  COMET CHEMICAL COMPANY LTD. |
| <p><u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p> |  ComplianceCenter |

DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by / obtained from Comet Chemical Company Ltd. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Comet Chemical Company Ltd. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Comet Chemical Company Ltd.

END OF DOCUMENT