



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Ethoxy Diglycol Reagent

30-3573

### Section 1: Identification

**Product Name** Ethoxy Diglycol Reagent  
**Commercial Name** 2-(2-ethoxyethoxy) ethanol  
**Product Use** Solvent  
**Restrictions On Use** Not available.

**Product Code** 30-3573

**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

### Section 2: Hazard(s) Identification

**OSHA Haz Com:** GHS classification in accordance with 29 CFR 1910.1200 Flammable liquids - Category 4 Specific target  
**CFR 1910.1200** organ toxicity - single exposure Category 3 (Central nervous system)

**Signal Word** WARNING

**Hazard Statement(s)** Combustible liquid. May cause drowsiness or dizziness. May cause respiratory irritation. Causes eye irritation. Causes skin irritation.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

|                   |  |
|-------------------|--|
| <b>Prevention</b> | Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection. |
| <b>Response</b>   | IF INHALED: Remove person to fresh air and keep comfortable for breathing. call a POISON CENTER/doctor if you feel unwell. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.           |
| <b>Storage</b>    | Store in a well-ventilated place. Keep container tightly closed. Keep cool.  |
| <b>Disposal</b>   | Dispose of contents/ container to an approved waste disposal plant.  |

### Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance  
**Components** Diethylene glycol monoethyl ether  
**% By Weight** 100  
**CAS#** 111-90-0  
**Molecular Weight** 134.17 g/mole  
**Chemical Formula** C<sub>6</sub>H<sub>14</sub>O<sub>3</sub>  
**Synonym(s)** Carbitol; Diethylene Glycol Monoethyl Ether; Glycol Ether De/Glycol Ether De Low Gravity

#### Mixtures

| Name                              | CAS#     | % by Weight | TLV/PEL | LC50/LD50 |
|-----------------------------------|----------|-------------|---------|-----------|
| Diethylene glycol monoethyl ether | 111-90-0 | 100         |         |           |

**Section 4: First-Aid Measures**

|                                    |   |
|------------------------------------|---|
| <b>Inhalation</b>                  | Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.   |
| <b>Skin Contact</b>                | If on skin, rinse well with water. If on clothes, remove clothes.   |
| <b>Eye Contact</b>                 | Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.   |
| <b>Ingestion</b>                   | Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice. |
| <b>Symptoms/Effects</b>            |   |
| <b>Acute</b>                       | Not available.  |
| <b>Delayed</b>                     | Not available.  |
| <b>Immediate Medical Attention</b> | Not available.  |

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, Dry chemical

**Unsuitable Extinguishing Media**

High volume water jet.

**Products of Combustion**

Carbon oxides

**Firefighters Special Equipment and Precautions**

Do not allow run-off from fire fighting to enter drains or water courses. Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

**Section 6: Accidental Release Measures**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations. Keep in suitable, closed containers for disposal.

**Section 7: Handling and Storage**

Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition. Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards. Storage period: 6-24 months. Suitable packaging material: Carbon steel, stainless steel. Unsuitable packaging material: aluminum, copper, iron.

**Section 8: Exposure Controls/Personal Protection**

|                             |   |
|-----------------------------|---|
| <b>Exposure Limits</b>      | TWA: 25 from AIHA TWA: 140 (mg/m <sup>3</sup> ) from AIHA |
| <b>Engineering Controls</b> | Not available   |

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**Personal Protection**

Respiratory protection: No personal respiratory equipment normally required. In the case of vapour formation use a respirator with an approved filter. Hand Protection: Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Eye protection: Eye wash bottle with pure water. Tightly fitting safety goggles Skin and Body protection: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Hygiene measures: Wash hands before breaks and at the end of workday.

**Section 9: Physical and Chemical Properties**

|   |   |  |                            |
|---|---|--|----------------------------|
| <b>Appearance</b>                                 | Colorless, clear liquid.  |  |                            |
| <b>Odor</b>                                       | Mild. Pleasant.   |  |                            |
| <b>Odor Threshold</b>                             | 1.1 ppm   |  |                            |
| <b>Melting Point</b>                              | -54 °C (-65 °F)   | <b>pH</b>                                | Not available.             |
| <b>Freezing Point</b>                             | -90 °C (-130 °F)  | <b>Vapor Pressure</b>                    | 0.95-0.127 mmHg @ 20-25 °C |
| <b>Boiling Point/Range</b>                        | 196-198 °C (385-388 °F)   | <b>Vapor Density</b>                     | Not available.             |
| <b>Decomposition temperature</b>                  | Not available.  | <b>Viscosity</b>                         | 4.5 mPa.s (20 °C)          |
| <b>Partition Coefficient:<br/>n-octanol/water</b> | -0.54 @20 °C (68 °F)  | <b>Evaporation Rate</b>                  | 0.01 Measured              |
| <b>Flash Point</b>                                | Closed Cup 90.85-91 °C (191 °F)                                 | <b>Autoignition temperature</b>          | 203-204 °C 760 mmHg        |
| <b>Flammability</b>                               | Not available.  | <b>Flammability or Explosive Limits:</b> |                            |
|   |   | <b>Lower</b>                             | 1.2 %(V) Literature        |
|   |   | <b>Upper</b>                             | 23.5 %(V) Literature       |
| <b>Solubility(ies)</b>                            | Completely miscible in water                                    |  |                            |
| <b>Other</b>                                      | Henry's Law Constant (H) 2.22E-08 atm*m3/mole; 25 °C Estimated. |  |                            |

**Section 10: Stability and Reactivity**

|   |   |
|---|---|
| <b>Reactivity</b>                       | No dangerous reaction known under conditions of normal use.                                   |
| <b>Chemical Stability</b>               | Stable under normal conditions.   |
| <b>Hazardous Polymerization</b>         | Can form potentially explosive peroxides upon long standing in air.                           |
| <b>Conditions to Avoid</b>              | Keep away from heat, flame, sparks and other ignition sources. Exposure to air.               |
| <b>Incompatible Materials</b>           | acid chlorides, acid anhydrides, bases, strong acids.   |
| <b>Hazardous Decomposition Products</b> | Decomposition products can include and are not limited to: Aldehydes. Ketones. Organic acids. |

**Section 11: Toxicological Information****RTECS** KK8750000**Acute Toxicity**

Not available.

**Skin Corrosion/Irritation**

Not available.

**Serious Eye Damage/Irritation**

Not available.

**Respiratory or Skin Sensitization**

Not available.

**Germ Cell Mutagenicity**

Not available.

**Carcinogenicity**

Not listed

**Reproductive Toxicity**

Not available.

**Routes of Entry**

Absorbed through skin. Eye contact.

**Symptoms Related to Exposure**

headache, dizziness, tiredness, nausea and vomiting

**Potential Health Effects**

Not available.

**Target Organ(s)**

Not available.

**Section 12: Ecological Information****Ecotoxicity**

No data available.

**Persistence and Degradability**

Not available

**Bioaccumulative Potential**

No data available

**Mobility in Soil**

Not expected to adsorb on soil.

**Other Adverse Effects**

Not available.

**Section 13: Disposal Considerations****Waste Disposal**

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

**Disposal of Container**

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on the empty drum.

**Other Considerations**

Not available.

**Section 14: Transport Information****DOT Classification**

Class combustible liquid, Packing group III for quantities of 450 liters (119 gallons) or more; not regulated for smaller quantities

Possible shipping description(s): Combustible liquid, n.o.s. (diethylene glycol monoethyl ether) combustible liquid NA 1993 III

**Section 15: Regulatory Information****Regulations**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS (Canada) Status: controlled WHMIS (Canada) Hazard Classification: B/3, D/2/B SARA 311-312 Hazard Classification(s) : immediate (acute) health hazard fire hazard SARA 313: none, unless listed below DIETHYLENE GLYCOL MONOETHYL ETHER (GLYCOL ETHERS CATEGORY) Carcinogenicity Classification (components present at 0.1% or more): none, unless listed below TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing. DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing. EINECS (European Inventory of Existing Commercial Chemical Substances): This product is listed on EINECS or otherwise complies with EINECS requirements. EINECS Number: 203-919-7 AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS. MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification. ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act. KE-10467 Philippines Inventory (PICCS) : All components of this product are listed on the Philippine inventory or otherwise comply with PICCS. Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

**Other**

Not available.

**Section 16: Other Information**

The Dow Chemical Company urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.