# Safety Data Sheet

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

## Section 1: Identification

**Product Name** Diethylene Glycol Monoethyl Ether NF
**Commercial Name** DIETHTYLENE GLYCOL MONOETHYL ETHER NF GRADE
**Product Use** Manufacture of substances
**Restrictions On Use** Not available.

**Product Code** 30-3680

**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: CFR 1910.1200** Not available.

**Signal Word** NON-HAZARDOUS

**Hazard Statement(s)** N/A

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

**Precautionary Statement(s):**

**Prevention** P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301 P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P330 Rinse mouth. P501 Dispose of contents/ container to an approved waste disposal plant.
**Response** Not available.
**Storage** Not available.
**Disposal** Not available.

## Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance
**Components** 2-(2-Ethoxyethoxy)ethanol
**% By Weight** 100
**CAS#** 111-90-0
**Molecular Weight** 134.17 g/mole
**Chemical Formula** Not available.
**Synonym(s)** 2-(2-Ethoxyethoxy)ethanol; Ethyldiglycol; Diethylene glycol ethyl ether

**Mixtures**

| Name | CAS# | % by Weight | TLV/PEL | LC50/LD50 |
|---|---|---|---|---|
| 2-(2-Ethoxyethoxy)ethanol | 111-90-0 | 100 | Not available. | Not available. |

## Section 4: First-Aid Measures

**Inhalation** Supply fresh air. Consult doctor in case of complaint. If not breathing, give artificial respiration. Consult a physician

**Skin Contact** Wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

**Eye Contact** Rinse opened eye for several minutes under running water for at least 15 minutes. If symptoms persist, consult a doctor.

**Ingestion** Rinse mouth with water. Consult a physician.

**Symptoms/Effects**

**Acute** Not available

**Delayed** Not available

**Immediate Medical Attention**

Not available.

## Section 5: Fire-Fighting Measures

**Suitable Extinguishing Media**

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Firefighters Special Equipment and Precautions**

Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear protective clothing. Particular danger of slipping on leaked/spilled product. Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid- binding material (sand, diatomite, acid binders, univeral binders, saw dust). Ensure adequate ventilation.

## Section 7: Handling and Storage

Handling:Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, moisture. Storage: HYGROSCOPIC. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 23°C (73.4°F).

## Section 8: Exposure Controls/Personal Protection

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection**

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purposecombination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If therespirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and componentstested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touchingglove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use inaccordance with applicable laws and good laboratory practices. Wash and dry hands. Eye protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved underappropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection Impervious clothing, The type of protective equipment must be selected according to the concentration and amountof the dangerous substance at the specific workplace. Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end ofworkday.

## Section 9: Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Colorless to pale yellow liquid. |
| **Odor** | Fruity. Characteristic. Pleasant. (Slight.) |
| **Odor Threshold** | Not available. |

| | | | |
|---|---|---|---|
| **Melting Point** | Not available. | **pH** | Not available. |
| **Freezing Point** | Not available. | **Vapor Pressure** | 0.009 mm Hg (@ 20°C) |
| **Boiling Point/Range** | 195°C | **Vapor Density** | Not determined |
| **Decomposition temperature** | Not available. | **Viscosity** | Not available. |
| **Partition Coefficient: n-octanol/water** | Not available. | **Evaporation Rate** | 0.02 |
| **Flash Point** | >200 °C | **Autoignition temperature** | Not available. |
| **Flammability** | Not available. | **Flammability or Explosive Limits:** | |
| | | **Lower** | 1.20% |
| | | **Upper** | 23.50% |

| | |
|---|---|
| **Solubility(ies)** | Soluble in water |
| **Other** | Density @ 25°C: 0.990 |

## Section 10: Stability and Reactivity

| | |
|---|---|
| **Reactivity** | No dangerous reactions |
| **Chemical Stability** | Stable under recommended storage conditions |
| **Hazardous Polymerization** | Hazardous polymerization will not occur. |
| **Conditions to Avoid** | no data available |
| **Incompatible Materials** | Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides |
| **Hazardous Decomposition Products** | Hazardous decomposition products formed under fire conditions. - Carbon oxides |

## Section 11: Toxicological Information

**RTECS** N/A

**Acute Toxicity**

Acute toxicity: Oral, LD50: >5001 mg/kg [Rat] Oral, LD50: 6031mg/kg [Mouse] Dermal, LD50: 6000 mg/kg [Rat] Dermal, LD50: 9143 mg/kg [Rabbit] Dermal, LD50: 5900 mg/kg [Guinea Pig] Oral, LD50(2): 6300 mg/kg [Rat] Inhalative LC0: (8H) 0.025 mg/l [Rat] Oral, SubChronicTox: (13W) 1000 mg/kg [Dog] Dermal, SubChronicTox: (28D) > 1000 mg/kg [Rabbit] MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys. May cause adverse reproductive effects (fertility) and birth defects(growth and developmental abnormalities) based on animal data. Acute Potential Health Effects: Skin: May cause mild skin irritation. Eyes: May cause moderate eye irritation. May cause corneal injury. Inhalation: May cause respiratory tract irritation. May affect the blood, and liver. There is a low hazard for usual industrial handling. Ingestion: May cause digestive (gastrointestinal) tract irritation with nausea, vomiting and diarrhea. May affect the brain, behavior (ataxia, coma, somnolence, altered sleep, excitement), nervous system, liver, blood, metabolism, urinary system , sense organs. Chronic Potential Health Effects: May cause kidney damage

**Skin Corrosion/Irritation**

No irritant

**Serious Eye Damage/Irritation**

No irritant

**Respiratory or Skin Sensitization**

No sensitization

**Germ Cell Mutagenicity**

Not available

**Carcinogenicity**
Not available

**Reproductive Toxicity**
Not available

**Routes of Entry**
Absorbed through skin. Eye contact.

**Symptoms Related to Exposure**
Not available

**Potential Health Effects**
Not available

**Target Organ(s)** Not available

## Section 12: Ecological Information

**Ecotoxicity**
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 9,650 mg/l - 96 h Toxicity to daphnia LC50 - Daphnia magna (Water flea) - 3,340 mg/l - 48 h and other aquatic invertebrates

**Persistance and Degradability**
no data available

**Bioaccumulative Potential**
no data available

**Mobility in Soil**
Not available

**Other Adverse Effects**
Not available

## Section 13: Disposal Considerations

**Waste Disposal**
Offer surplus and non-recyclable solutions to a licensed disposal company. Consult with local and regional (state) authorities (waste regulators). Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Disposal of Container**
Not available

**Other Considerations**
Recommendation about packaging :Disposal must be made according to official regulations.Packaging may be reused or recycled after cleaning

## Section 14: Transport Information

**DOT Classification**
Land transport ADR/RID (cross - border): Not regulated. Inland shipping ADN: Not regulated. Maritime transport IMDG: Not regulated. Air transport ICAO-TI and IATA-DGR: Not regulated.

## Section 15: Regulatory Information

**Regulations**
Labelling according to EU guidelines: The substance is not subject to classification according to the Directives 67/548/EEC and 88/379/EEC. All compounds of the substance are recorded into european inventory EINECS (European Inventory of Existing Chemical Substances)-Directives 79/831/EEC, sixth modification of directive 67/548/EEC. USA: All compounds of the substance are recorded in the US inventory : TSCA (Toxic Substance Control Act). National Regulations: Additional classification according to Decree on Hazardous Materials, Annex II: Not classified. Classification according to VbF: Class A III: Liquids with flashpoint (FP) between 55°C to 100°C. Classification WGK (Water hazard classes - Wassergefahrdungsklassen): Wassergefahrdungsklasse (WGK): Not classified.

**Other**
Not available.

## Section 16: Other Information

Not available.