



## Safety Data Sheet

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

Glycerin USP (Natural)

30-2865

### Section 1: Identification

**Product Name** Glycerin USP (Natural)  
**Commercial Name** Not available.  
**Product Use** Intermediate for making glycerol derivatives.  
**Restrictions On Use** Not available.  
**Product Code** 30-2865  
**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:** Flammable liquids: Category 4 Specific target organ toxicity - single exposure: Category 3 (Central nervous system)  
**CFR 1910.1200**  
**Signal Word** NON-HAZARDOUS  
**Hazard Statement(s)** N/A  
**Pictogram(s) or Symbol(s)**

#### Precautionary Statement(s):

**Prevention** P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection.  
**Response** P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Storage** P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up  
**Disposal** P501 Dispose of contents/ container to an approved waste disposal plant.

### Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance  
**Components** 1,2,3-propanetriol  
**% By Weight** 100  
**CAS#** 56-81-5  
**Molecular Weight** 92.09 g/mole  
**Chemical Formula** C<sub>3</sub>H<sub>5</sub>(OH)<sub>3</sub>  
**Synonym(s)** 1,2,3-Propanetriol; Glycerol, Glycol Ether DE Low Gravity

#### Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
1,2,3-propanetriol	56-81-5	99-100	N/A	N/A

**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**

Environmental precautions: 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. Methods and materials for containment and cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, ver-miculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

**Section 7: Handling and Storage**

Advice on protection against fire and explosion: Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition. Advice on safe handling: Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. For personal protection see section 8. 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. Conditions for safe storage: 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 Packaging material: Suitable material: Carbon steel Suitable material: Stainless steel Unsuitable material: Aluminium Unsuitable material: Copper Unsuitable material: Iron

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

<b>Exposure Limits</b>	TWA 25 ppm US WEEL
<b>Engineering Controls</b>	Not available.

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**Personal Protection**

Respiratory protection: No personal respiratory protective 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>	Clear colorless 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>	0.095 - 0.127 mmHg @ 20 - 25 °C
<b>Boiling Point/Range</b>	196 - 198 °C (385 - 388 °F)	<b>Vapor Density</b>	< 4.62 @ 20 - 25 °C (68 - 77 °F) (/
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Viscosity, dynamic : 4.4 - 4.5 mPa
<b>Partition Coefficient: n-octanol/water</b>	log Pow: -0.54 @ 20 °C (68 °	<b>Evaporation Rate</b>	0.01 (Butyl Acetate = 1)
<b>Flash Point</b>	90.85 - 91 °C (195.53 - 196 °	<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)
		<b>Upper</b>	23.5 %(V)
<b>Solubility(ies)</b>	completely miscible in water.		
<b>Other</b>	Relative density: 0.990 @ 20 °C (68 °F) Reference substance: (water = 1) Density: 0.989 g/cm <sup>3</sup> @ 20 °C (68 °F)		

**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, Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Aldehydes, Ketones, Organic acids

**Section 11: Toxicological Information****RTECS** MA8050000**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**  
Not available**Symptoms Related to Exposure**



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Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

### Potential Health Effects

Not available.

**Target Organ(s)** STOT - single exposure Assessment: The substance or mixture is classified as specific target organ toxicant, single

## Section 12: Ecological Information

### Ecotoxicity

Not available

### Persistence and Degradability

Not available.

### Bioaccumulative Potential

Not available.

### Mobility in Soil

Not expected to adsorb on soil.

### Other Adverse Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

## 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

DOT (Department of Transportation): NA1993, Combustible liquid, n.o.s., (ETHANOL, 2-(2-ETHOXYETHOXY)-), CBL, III

## Section 15: Regulatory Information

### Regulations

WHMIS Classification : B3: Combustible Liquid EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity Components CAS-No. Component RQ (lbs) Calculated product RQ (lbs) 2-ethoxyethanol 110-80-5 1000 \* Ethylene glycol 107-21-1 5000 \* \*: Calculated RQ exceeds reasonably attainable upper limit. SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ. SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids) Specific target organ toxicity (single or repeated exposure) SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313: 111-90-0 Glycol ether DE Clean Air Act The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61): 111-90-0 Glycol ether DE This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489): 111-90-0 Glycol ether DE Clean Water Act This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 Massachusetts Right To Know No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know 111-90-0 Glycol ether DE 107-21-1 Ethylene glycol 110-80-5 2-ethoxyethanol California Prop 65 WARNING: This product can expose you to chemicals including Ethylene glycol, 2-ethoxyethanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



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### Other

Not available.

### Section 16: Other Information

Not available.