



Safety Data Sheet

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

Glycerin USP

30-2865

Section 1: Identification

Product Name Glycerin USP
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 C₃H₅(OH)₃
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

Inhalation	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
Skin Contact	If on skin, rinse well with water. If on clothes, remove clothes.
Eye Contact	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.
Ingestion	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.
Symptoms/Effects	
Acute	Not available.
Delayed	Not available.
Immediate Medical Attention	Not available.

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

Carbon dioxide (CO₂) 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

Exposure Limits	TWA 25 ppm US WEEL
Engineering Controls	Not available.

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

Appearance	Clear colorless liquid.	pH	Not available.
Odor	mild, pleasant	Vapor Pressure	0.095 - 0.127 mmHg @ 20 - 25 °C
Odor Threshold	1.1 ppm	Vapor Density	< 4.62 @ 20 - 25 °C (68 - 77 °F) (/
Melting Point	-54 °C (-65 °F)	Viscosity	Viscosity, dynamic : 4.4 - 4.5 mPa
Freezing Point	-90 °C (-130 °F)	Evaporation Rate	0.01 (Butyl Acetate = 1)
Boiling Point/Range	196 - 198 °C (385 - 388 °F)	Autoignition temperature	203 - 204 °C 760 mmHg
Decomposition temperature	Not available.	Flammability or Explosive Limits:	
Partition Coefficient: n-octanol/water	log Pow: -0.54 @ 20 °C (68 °	Lower	1.2 %(V)
Flash Point	90.85 - 91 °C (195.53 - 196 °	Upper	23.5 %(V)
Flammability	Not available.		
Solubility(ies)	completely miscible in water.		
Other	Relative density: 0.990 @ 20 °C (68 °F) Reference substance: (water = 1) Density: 0.989 g/cm ³ @ 20 °C (68 °F)		

Section 10: Stability and Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical Stability	Stable under normal conditions.
Hazardous Polymerization	Can form potentially explosive peroxides upon long standing in air.
Conditions to Avoid	Keep away from heat, flame, sparks and other ignition sources. Exposure to air.
Incompatible Materials	acid chlorides, Acid anhydrides, Bases, Strong acids, Strong oxidizing agents
Hazardous Decomposition Products	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

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. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater 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.



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Other

Not available.

Section 16: Other Information

Not available.