

**Product and Company Identification**

**Product Name:** T7 DNA Polymerase  
**Product Use:** For Research Use Only. Not for use in diagnostic procedures  
**Company:** Molecular Cloning Laboratories(MCLAB)  
 320 Harbor Way  
 South San Francisco  
 CA 94080  
**Telephone:** 888-MCLAB-88  
 650-871-8771  
**Fax:** 650-871-8796

**Composition/Information on Ingredients****Hazardous/Non-hazardous Compounds**

CHEMICAL NAME	CAS #	Formula	SARA 313
Glycerol	56-81-5	HOCH <sub>2</sub> CHOHCH <sub>2</sub> OH	NO

Synonyms: glycerin, glycerol USP, glycerine, 1,2,3-propanetriol, propanetriol, 1,2,3-trihydroxypropane, bulbold, citifluor AF 2, cristal, emergy 916, glyrol, glycerol ophthalgan, glyciterol, glycol alcohol, osmoglyn, pricerine 9091

**Hazardous Ingredients Identification**

Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

**First Aid Measures****FIRST AID:**

**SKIN:** Wash exposed area with soap and water. If irritation persists, seek medical attention.

**EYES:** Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**INGESTION:** Give several glasses of milk or water. Vomiting may occur spontaneously, but it is not necessary to induce. Never give anything by mouth to an unconscious person.

**Fire Fighting Measures****Fire Extinguisher Type:**

Carbon Dioxide, dry chemical powder or appropriate foam

**Fire/Explosion Hazards:**

Slight Flammability. Material must be heated before ignition will occur.

**Fire Fighting Procedure:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

**Accidental Release Measures**

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

**Handling and Storage**

HANDLING	STORAGE	NOTES:
Avoid inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
Avoid prolonged or repeated exposure		

**Exposure Controls/Personal Protective Equipment****Engineering:**

Safety Shower and eye wash. Ensure adequate ventilation.

**Personal Protective Equipment:****Respiratory:**

NIOSH/MSHA-approved respirator

**Hand:**

Compatible chemical resistant gloves

**Eye:**

Compatible safety goggles

**Skin and Body:**

Lightweight protective clothing

**Hygiene Measures:**

Accordance with good industrial hygiene and safety practices

**Environmental Exposure Controls:**

Prevent product from entering drains

**Exposure Limits:**

CHEMICAL NAME	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable fraction	-	10 mg/m <sup>3</sup>	-

**Physical and Chemical Properties****General:**

**Physical Form:** Liquid

**Appearance:** Clear

**Odor:** Faint

**Physical Properties:**

**Melting Point:** 18°C

**Boiling Point:** 289°C

**Flash Point:** 193°C

**Autoignition Temp:** 400°C

**Explosion Limits in Air:**

**Lower:** 0.9%

**Specific Gravity:** 1.2610g/cm3

**Solubility:** Miscible in water

**Vapor Pressure:** 0.0025 mm Hg @ 5°C

**Vapor Density:** 3.17 g/L

**pH:** 5.5-8.0

**Stability and Reactivity****Stability:**

Stable

**Materials to Avoid:**

Strong oxidizing agents, strong bases

**Hazardous Decomposition products:**

Carbon Monoxide, Carbon Dioxide

**Hazardous Polymerization:**

Will not occur

**Toxicological Information**

**Conditions aggravated / target organs:** Single dose oral toxicity is low. Ingestion of larger amounts may cause injury. Signs and symptoms of excessive exposure may be central nervous system effects and increased blood sugar levels. Person with preexisting conditions may be more susceptible.

**DOT Classification:** Not Regulated

DOT regulations may change from time to time. Please consult the most recent version of the relevant regulations.

**Ecological Information**

Data not available.

**Disposal considerations**

Dispose of in accordance with local regulations.

**Transport Information**

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

**Regulatory Information****International Inventories:**

CHEMICAL NAME	TSCA	PICCS	ENCS	DSL	NDSL	AICS
Glycerol	Listed	Listed	Listed	Listed	-	Listed

**U.S. Federal Regulations:**

SARA 313: Not regulated

**U.S. State Regulations:**

CHEMICAL NAME	MA - RTK
Glycerol	Listed

**WHMIS Hazard Class:**

Product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**Other Information**

**Disclaimer:** This product intended for R&D and clinical diagnostic uses. Use of material must be supervised by technically qualified individual. This above information is believed to be correct but may not be all inclusive and shall be used as a reference guide only. Company shall not be held liable for any damage resulting from handling or contact with above product.

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End of MSDS