# SAFETY DATA SHEET



Order Number Customer Number

# 1. Identification of the substance/preparation and of the company/undertaking

Product name : Glycerol

Chemical formula : C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>

Supplier : Manufactured by EMD Biosciences, Inc. 10394 Pacific Center Court

: 356350

San Diego, CA 92121 (858)450-5558/(800)854-3417

FAX: (858)453-3552

Synonym : Glycerin

Emergency telephone :

number

Catalog #

Call Chemtrec® (800)424-9300 (within U.S.A.)

(703)527-3887 (outside U.S.A.)

# 2. Composition / information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
Glycerin	56-81-5	Not available.	-	-

### 3. Hazards identification

Physical/chemical hazards : Not applicable.

Human health hazards : No specific hazard.

### First-aid measures

#### First-Aid measures

Inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin Contact

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Eye Contact** 

: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Aggravating conditions

: Repeated or prolonged exposure is not known to aggravate medical condition.

# 5. Fire-fighting measures

Flammability of the Product

: May be combustible at high temperature.

Extinguishing Media

Suitable

: SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Hazardous thermal (de)composition products

: These products are carbon oxides (CO, CO2).

Special fire-fighting procedures

: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**Protection of fire-fighters** 

: Be sure to use an approved/certified respirator or equivalent.

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### 6. Accidental release measures

Personal precautions
Small Spill and Leak

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

. Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill and Leak

. Absorb with an inert material and put the spilled material in an appropriate waste disposal.

# Handling and storage

Handling

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, alkalis.

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: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 20°C (68°F).

Packaging materials

Recommended use

: Use original container.

## 8. Exposure controls/personal protection

**Engineering measures** 

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.

Hygiene measures

Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name Glycerol Occupational Exposure Limits

Not available.

Personal protective equipment

Skin and body : Lab coat.

Hands : Natural, Neoprene, Nitrile gloves (8 hour breakthrough)

Eyes : Safety glasses.

**Protective Clothing (Pictograms)** 



# **9.** Physical and chemical properties

Physical state : Liquid. (Viscous liquid.)

: Clear Colorless.

Molecular Weight

92.1 g/mole

1/20/00dailar // 0/giro

: Not available.

Flash point

**Solubility** 

Color

OPEN CUP: 177°C (350.6°F).

**Explosive properties** 

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

# 10. Stability and reactivity

Stability

: The product is stable.

Conditions to avoid

Incompatible with peroxides.

Materials to avoid

: Reactive with oxidizing agents, alkalis.

**Hazardous Decomposition Products** 

: These products are carbon oxides (CO, CO2).

# 11. Toxicological information

RTECS #

MA8050000

**Local effects** 

Skin irritation

Not available

Acute toxicity

: Acute oral toxicity (LD50): 12600 mg/kg [Rat].

Chronic toxicity

: Repeated or prolonged exposure is not known to aggravate medical condition.

Other Toxic Effects on Humans

Not available.

Not considered to be toxic for humans.

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Not available.

Not available.

Carcinogenic effects Not available. **Mutagenic effects** Not available. Reproduction toxicity Not available : Not available. Teratogenic effects

# **Ecological information**

Ecotoxicity

: Not available.

Toxicity of the Products of **Biodegradation** 

: The product itself and its products of degradation are not toxic.

## Disposal considerations

Methods of disposal; Waste of residues; : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated packaging

### Transport information

International transport regulations

Land - Road/Railway

**ADR/RID Class** : Not controlled under ADR (Europe).

**IMDG Class** : Not controlled under IMDG.

**IATA-DGR Class** 

: Not controlled under IATA.

**Special Provisions for** 

**Transport** 

Not applicable.

### 15. Regulatory information

**EU Regulations** 

**Risk Phrases** 

: This product is not classified according to the EU regulations.

U.S. Federal Regulations

TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.

**HCS Classification** Not controlled under the HCS (United States).

**State Regulations** 

: Not controlled under WHMIS (Canada).

No products were found.

### Other information

**Hazardous Material Information System** (U.S.A.)



**National Fire Protection Association** (U.S.A.)



#### Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. \*\*This product is intended for research use only.\*\*

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