

SAFETY DATA SHEET

Revised: May 3, 2016

1. Identification of the Substance

Product Name: Glycerin

Product Use: An ingredient in cosmetics, toiletries, body care products, drugs, and food products.

2. Hazard Identification

GHS-US Classification

Not classified

GHS-US Label Elements

Not applicable

Hazards not covered by GHS-US

Not classified

3. Composition/ Information on Ingredients

Synonyms: Glycerol; Glycerin; 1,2,3-Propanetriol; 1,2,3-Trihydroxypropane

CAS No: 56-81-5

Molecular Formula: HOCH₂CH(OH)CH₂OH

Molecular Weight: 92.09 g/ mol

Appearance: Clear Colorless

Assay: 99.7% Min

4. First-Aid Measures

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, occasionally lifting the upper and lower lids. Get medical attention if irritation occurs.

Skin Contact

Remove any contaminated clothing. Wipe off excess from skin. Wash skin with soap and

flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Inhalation

If inhaled, remove to fresh air immediately and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention for any breathing difficulty.

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.

5. Fire Fighting Measures**Special Hazards Arising from the Substance or Mixture**

Carbon oxides

Fire-Fighting Equipment/ Instructions

Evacuate personnel to a safe area. If necessary, firefighters should use self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media

In case of a fire, use water spray, dry chemical, carbon dioxide, or chemical foam.

6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Use proper personal protective equipment as indicated in Section 8. Keep unnecessary personnel away to safe areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Methods and materials for containment and cleaning up

Handle in accordance with industrial hygiene and safety practices. Absorb spill with inert material such as vermiculite, sand, and then place in suitable container. Keep in suitable, closed containers for disposal according to local and regional authority requirements.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

7. Handling and Storage**Precautions**

Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Do not swallow. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wash hands and other exposed areas with mild soap and water after handling. Handle in accordance with good industrial hygiene and safety procedures.

Storage

Keep container tightly closed. Store in a dry, cool, and well-ventilated place. Keep away from

heat. Empty containers should be handled with care because it may contain residual amounts of this product.

8. Exposure Controls / Personal Protection

Engineering Controls

Use adequate ventilation or other engineering controls to keep airborne concentrations below recommended exposure limits. See **OSHA Regulations state in 29 CFR 1910.151 (c)** for an eyewash facility and safety shower requirement.

Personal Protection

Eyes: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. Physical and Chemical Properties

Appearance: Clear Colorless

Assay: 99.7% Min

Specific Gravity (@ 25°C/25°C): 1.261 Min

Water Content: 0.5% Max

Residue on Ignition: 0.01% Max

Chlorides: 10 PPM Max

Limit of Chlorinated Compounds (Cl): 30 PPM Max

Organic Volatile Impurities: Pass

Total Heavy Metal (Pb): 5 PPM Max

Arsenic: 1.5 PPM Max

Sulfate: 20 PPM Max

Color (APHA): 5 Max

Fatty Acid & Esters (ml 0.5N NaOH/ 50g): 1 Max

Identification A: Pass

Identification B: Pass

Identification C: Pass

Other Impurity, Max: 0.1% Max

Total Impurity: 1.0% Max

Readily Carbonizable Substances: Pass

Lead: 1 Max PPM

Odour: No data available

Odour Threshold: No data available

pH: No data available

Melting point/ freezing point: No data available

Initial boiling point and boiling range: No data available

Evaporation rate: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: No data available

Water solubility: No data available

Viscosity: No data available

Oxidizing properties: No data available

Auto-ignition Temperature: Not data available

Flash Point: Not data available
Explosion Limits: Not data available
Flammability of the Product: No data available
Flammable Limits: Not data available

10. Stability and Reactivity

Stability: Stable under ordinary conditions
Reactivity: No data available
Conditions to avoid: No data available
Incompatibilities with other materials: Strong bases, Strong oxidizing agents
Hazardous decomposition products: No data available
Hazardous polymerization: No data available

11. Toxicological Information

Acute toxicity

LD50 Oral - rat - 12,600 mg/kg
LD50 Dermal - rabbit - > 10,000 mg/kg

Skin corrosion/irritation

Skin - rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - rabbit
Result: Mild eye irritation - 24 h

Carcinogenicity

The components of this product are not listed as carcinogen by ACGIH, IARC, NIOSH, NTP, or OSHA

12. Ecological Information

No data available

13. Disposal Information

Waste Disposal

Keep out of sewers and waterways. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport Information

US DOT

Not regulated as a hazardous material

Canada TDG

Not regulated as a hazardous material

IMDG/ IATA

Not regulated as a hazardous material

15. Regulatory Information

TSCA Inventory

CAS# 56-81-5 is listed

Section 12b

None of the chemicals are listed under TSCA Section 12b.

SARA Section 302

No chemicals are reportable under Section 302

SARA Section 313

No chemicals are reportable under Section 313

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

US State**State Right to Know:**

This chemical is listed on the following state right to know lists: Massachusetts, New Jersey, Pennsylvania.

California Regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins that cause cancer, birth defects, or any other reproductive harm.

16. Other Information**HMIS Rating**

Health: 0

Flammability: 1

Physical Hazard 0

Personal Protection:

NFPA Rating

Health: 0

Flammability: 1

Instability: 0

Special Hazards:

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