



Material Safety Data Sheet

According to 1907/2006/EC, Article 31

Printing Date APR 2014

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Section 1 Identification of The Substance/Preparation and of The Company/Undertaking

Product Details/Trade Name TECHNICAL Grade Glycerin, Vegetable Derived Sources
Technical Grade Glycerin 99.7% Purity

**Application of the substance/
Preparation** Emollient, Humectant, Freeze Point Suppressor

Manufacturer/Supplier

US GLYCERIN Phone: 419-329-4280
2025 Cascade Ridge Dr Fax: 269-383-2450
Jackson, MI 49203
United States of America

Emergency Phone Numbers

USG 269-978-4695 Normal Business Hrs.
USA Chemtrec 800-424-9300 24 Hours
International Chemtrec 703-527-3887

Section 2 Hazards Identification

Hazard description: None

**Information concerning particular
Hazards for human and environment:** None

Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Section 3 Composition/Information on Ingredients

Chemical characterization

Description:

Hazardous components:

CAS: 56-81-5
EINECS:

Glycerine-Vegetable Sourced 100%
200-289-5 Glycerin Min 99.7%

Section 4 First Aid Measures

Suitable extinguishing agents:	Water fog. Carbon dioxide. Dry chemical. Alcohol foam. Foam. Water or foam may cause frothing.
Protective equipment:	Wear protective clothing, including breathing apparatus, for fire only.
Fire-fighting methods:	Evacuate area of unprotected personnel. Remain upwind of fire to avoid Hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Do not use direct water stream. May spread fire.
Fire and explosion hazards:	Material will burn in fire, releasing toxic vapors. Material will not burn unless preheated. At elevated temperatures, there is a risk of exothermic polymerization (>200°C).
Hazardous composition products:	Carbon dioxide. Carbon monoxide. Acrolein. Unidentified toxic and/or Irritating compounds.

Section 5 Accidental Release Measures

Person-related safety precautions:	Evacuate unprotected personnel from area. Wear protective clothing. Wear suitable gloves and eye/face protection..
Measures for environmental protection:	Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.
Measures for cleaning/collecting:	Maintain adequate ventilation. Absorb with inert absorbent material. Place in non-leaking containers. Wash residue from spill area with water and detergent.



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Section 6 Handling and Storage

HANDLING

Information for safe handling:

Use with adequate ventilation/exhaustion at the workplace.
Prevent formation of aerosols. Wash after handling.

Information about fire- and explosion protection:

See Section 5.

STORAGE

Requirements to be met by storerooms and receptacles:

Store only in unopened, labeled and original receptacles. Keep containers tightly closed. Avoid contact with moisture.
Avoid storage above 130°F (54.4 °C) and below 64°F (17.7 °C) and near incompatible materials.

Information about storage in one common storage facility:

None Required.

Further information about storage conditions:

Keep container tightly sealed when not in use.

Maximum storage temperature:

130°F (54.4 °C)

Section 7 Exposure Controls/Personal Protection

Exposure Limits:

Belgium Minister of Labour (Belgium, 1998).

VL: 10 mg/m³ 8 hour(s).

Tyterveyslaitos (Finland, 1998).

TWA: 20 mg/m³ 8 hour(s).

INRS (France, 1996).

VME: 10 mg/m³ 8 hour(s).

National Authority for Occupational Safety/Health (Ireland, 1999).

OEL: 10 mg/m³ 8 hour(s).

Arbeidsinspectie (Netherlands, 1999).

TGG 8 uur: 10 mg/m³ 8 hour(s).

EH40-OES (United Kingdom (UK), 1997).

TWA: 10 mg/m³ 8 hour(s).

Section 7 Exposure Controls/Personal Protection Continued

ACGIH (United States, 1994).

WA: 10 mg/m³ 8 hour(s). Form: Mist

OSHA Final Rule (United States, 1989).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction

TWA: 10 mg/m³ 8 hour(s). Form: Total dust

**Additional information about
Design of Technical Facilities:**

Provide exhaust ventilation, eyewash station and safety shower.

**Personal protective
equipment:**

Splash goggles. Neoprene gloves.

Section 8 Physical and Chemical Properties

General Information

Form: Oily, viscous liquid.

Color: Colorless.

Odor: Odorless.

Change in Condition

Melting point/Melting range: 17.8°C (64°F)

Boiling point/Boiling range: 290.05°C (340°F)

Molecular Weight: 92.11 g/mole

Molecular Formula: C₃H₈O₃

Danger of Explosion: Product does not present an explosion hazard.

Specific Gravity: 1.261 (Water = 1)

Solubility in/Miscibility with water: Partially soluble in water.

Vapor Pressure: <0.001 @ 25°C

Vapor Density: 3.1 (Air = 1)

Flash Point: 390°F (199°C) (minimum)

Section 9 Stability and Reactivity

Stability and reactivity:	The product is stable.
Conditions to be avoided:	Excessive heat. Open flames. Low temperatures.
Materials to be avoided:	Reactive with oxidizing agents.
Dangerous reactions	Risk of exothermic polymerization (>200°C). Reacts violently with strong oxidizing agents.
Dangerous decomposition products:	Carbon dioxide. Carbon monoxide. Acrolein.

Section 10 Toxicological Information

Acute toxicity:	Oral - LD50 4090 mg/kg (mouse)
Primary irritant effect:	Eyes - 500mg/24h. Mild (rabbit) Skin 500 mg/24h mild (rabbit)
Sensitization:	Not available
Carcinogenic Effects:	This material is not known to cause cancer in animals or humans. This product is not listed as a carcinogenic or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. Monographs or by OSHA.
Additional toxicological information:	May be hazardous in case of eye contact (irritant). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Non-hazardous in the case of ingestion.

Section 11 Ecological Information

Ecotoxicological effects:	Not available
General notes:	The product itself and its products of degradation are not toxic.

Section 12 Disposal Considerations

Product: Not a Listed Waste.

Section 13 Transport Information

Description of goods:	Chemicals, N.O.S.
Maritime transport IMDG:	Chemicals, N.O.S.
IMDG Class:	Chemicals, N.O.S.
Marine Pollutant:	No.
Air Transport ICAO-TI and IATA-DGR:	Not available
ICAO/IATA Class:	Not available
Shipping Class:	55
Dot Identification Number:	N/A
Dot Shipping Label:	Not regulated by DOT

Section 14 Regulator Information

Labeling according to EU guidelines:	Glycerine.
Risk phrases:	R36/38- Irritating to eyes and skin.



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Section 15 Regulatory Statuary

U.S. Federal Regulatory Information:

SARA 302 Threshold Planning Quantity: N/A

SARA 304 Reportable Quantity: N/A

SARA 311 Categories:

Acute Health Effects:	None
Chronic Health Effects:	None
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals.

EPA Hazard Classification Code: Not applicable

CERCLA: No chemicals in this product are subject to the reporting requirements of CERCLA.

SARA Title III - Section 313 Supplier Notification: No Chemicals in this product exceed the DE Minimus reporting level established by SARA Title III, Section 313 and 40 CFR 372.

WHMIS Classification: Not controlled.

Section 16 Other Information

NFPA Hazard Rating:

Health:	1	Slight
Flammability:	1	Slight
Reactivity:	0	Negligible

Supersedes MSDS Dated: Original 2/9/09

*Threshold Limit Value/Personal Exposure Limit

N/A = Not Applicable

N/E = Not Established

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: US Glycerin

Contact: William L. Zehnpfennig, Process/Chemical Engineer

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Revision Date April 2014, Corrected New Business Address Page 1

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