

## Material Safety Data Sheet

Vegetable Glycerine USP 99.7% Food Grade, Kosher & Halal Certified  
GMO Free & 100% Natural

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Vegetable Glycerine USP 99.7% Food Grade, Kosher & Halal Certified, GMO Free & 100% Natural.  
**Synonyms:** Glycerine, Refined Glycerine, Glycerol, 1,2,3-Propanetriol, Glyceritol, Glycic Alcohol, 1,2,3-Trihydroxypropane; 1,2,3-Propanetriol.  
**Chemical Formula:** C<sub>3</sub>H<sub>5</sub>(OH)<sub>3</sub>  
**Application:** General Industrial Ingredient.  
**Distributed By:**  
Ingredient Depot

**Prepared By:** Ingredient Depot's Compliance & Regulatory Affairs Dept.  
**Preparation date of MSDS:** 11 July 2013  
**Telephone number of preparer:** 1-800-463-0665

**24-Hour Emergency Telephone Number:** 1-800-463-0665

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Vegetable Glycerine USP 56-81-5	>=99.7	Dermal LD50 Rabbit > 10 g/kg Inhalation LC50 Rat > 570 mg/m <sup>3</sup> 1 h

**Note:** No additional remark.

### 3. HAZARDS IDENTIFICATION

**Potential Acute Health Effects:**

**Eye Contact:** May cause slight transient (temporary) eye irritation.

**Skin Contact:** Not expected to cause skin irritation. Contact with heated material may cause thermal burns.

**Inhalation:** Should not be hazard at ambient temperatures. Mists may cause irritation of upper respiratory tract.

**Ingestion:** Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury.

## 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with water and continue washing for several minutes. If irritation persists, consult a physician.

**Skin Contact:** Wash thoroughly with soap and water.

**Inhalation:** Move person to fresh air.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Notes to Physician:** Treatment based on sound judgment of physician and individual reactions of patient.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** >198.9 °C / 390 °F

**Flash Point Method:** Pensky-Martens Closed Cup

**Autoignition Temperature:** ~400°C / ~752°F

**Flammable Limits in Air (%):** Lower: 2.6% Upper: 11.3%

**Extinguishing Media:** Use DRY chemicals, CO<sub>2</sub>, alcohol foam or water spray.

**Special Exposure Hazards:** Contact of glycerin with strong oxidizing agents such as nitric acid or other strong acids, chromium trioxide, potassium chlorate or potassium permanganate may cause an explosion.

**Hazardous Decomposition/Combustion Materials (under fire conditions):** Carbon monoxide. Carbon dioxide. Acrolein.

**Special Protective Equipment:** Fire fighters should wear full protective clothing, including self-contained breathing equipment.

**NFPA RATINGS FOR THIS PRODUCT ARE:** HEALTH 1, FLAMMABILITY 1, INSTABILITY 1

**HMIS RATINGS FOR THIS PRODUCT ARE:** HEALTH 1, FLAMMABILITY 1, REACTIVITY 1

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures:** Wear appropriate protective equipment.

**Environmental Precautionary Measures:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.

**Procedure for Clean Up:** Absorb with an inert dry material and place in an appropriate waste disposal container. Flush area with water to remove trace residue.

## 7. HANDLING AND STORAGE

**Handling:** No special handling required. Avoid direct or prolonged contact with skin and eyes. Prevent formation of mist. Eye and skin contact should be avoided if handling at elevated temperatures.

**Storage:** Store in clean tight containers to prevent moisture pickup from air. Store in resin-lined steel, aluminum, stainless steel, or reinforced fiberglass vessels. Place away from incompatible materials. Product has a shelf life of 24 months. Store between 17°C (62.6°F) - 55°C (131°F).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls:

Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

**Respiratory Protection:** If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.

### Gloves:

Use gloves chemically resistant to this material, examples of preferred glove barrier materials include: Butyl rubber gloves. Polyethylene gloves. Neoprene gloves. Natural rubber gloves. Polyvinylchloride (PVC) gloves. Nitrile gloves. Ethyl Vinyl Alcohol Laminate (EVAL). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials as well as the instructions/specifications provided by the glove supplier.

**Skin Protection:** Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

**Eyes:** Safety glasses with side shields or chemical goggles.

**Other Personal Protection Data:** Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Glycerine	Not available.	10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> TWA	Not Available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Viscous liquid

**Color:** Clear, colorless

**Odor:** Odorless; sweet taste

**pH:** 6.5 - 8.5 (50% aqueous solution)

**Specific Gravity:** 1.2 - 1.3 @ 25°C

**Boiling Point:** >290°C / >554 °F @ 760 mmHg

**Freezing/Melting Point:** ~18°C / ~64.4°F

**Vapor Pressure:** 1 mmHg @ 20°C

**Vapor Density:** 3.1 @ 20°C

**Evaporation Rate:** Not Available.

**Solubility:** Completely soluble.

**VOCs:** Not Available.

**Viscosity:** Dynamic 945 mPa.s @ 25°C

**Molecular Weight:** 92.1 g/mol

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Moisture. Product can decompose at elevated temperatures.

**Materials to Avoid:** Contact of glycerin with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.

**Hazardous Decomposition Products:** Acrolein.

**Additional Information:**

No additional remark.

## 11. TOXICOLOGICAL INFORMATION

### Principle Routes of Exposure

**Ingestion:** Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury.

## 11. TOXICOLOGICAL INFORMATION

**Skin Contact:** Not expected to cause skin irritation. Contact with heated material may cause thermal burns.  
**Inhalation:** Should not be hazardous at ambient temperatures. Mists may cause irritation of upper respiratory tract.  
**Eye Contact:** May cause slight transient (temporary) eye irritation.

**Additional Information:**

**Acute Test of Product:**

**Acute Oral LD50:** >2000 mg/kg (rat)

**Carcinogenicity:**

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Vegetable Glycerine USP	Not listed.	Not listed.

**Carcinogenicity Comment:** No additional information available.

**Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity:** Not Available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:**

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Glycerine	51,000 - 57,000 mg/L Oncorhynchus mykiss (Rainbow trout) LC50 96	>500 mg/L Daphnia magna EC50 24 hr	Not Available.

**Other Information:**

No additional remark.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Waste Method:** Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

**Contaminated Packaging:** Empty containers should be recycled or disposed of through an approved waste management facility.

## 14. TRANSPORT INFORMATION

**DOT (U.S.):**

**DOT Shipping Name:** Not Regulated.

**DOT Hazardous Class:** Not Applicable.

**DOT UN Number:** Not Applicable.

**DOT Packing Group:** Not Applicable.

**DOT Reportable Quantity (lbs):** Not Available.

**Note:** No additional remark.

**Marine Pollutant:** No.

**TDG (Canada):**

**TDG Shipping Name:** Not Regulated.

**Hazard Class:** Not Applicable.

**UN Number:** Not Applicable.

**Packing Group:** Not Applicable.

**Note:** No additional remark.

**Marine Pollutant:** No.

## 15. REGULATORY INFORMATION

**U.S. TSCA Inventory Status:** All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

**Canadian DSL Inventory Status:** All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

**Note:** Not available.

### U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Glycerine	Not Listed.	Not Listed.	Not Listed.

**California Proposition 65:** Not Listed.

**MA Right to Know List:** Listed.

**New Jersey Right-to-Know List:** Listed.

**Pennsylvania Right to Know List:** Listed.

**WHMIS Hazardous Class:**  
NON-CONTROLLED

## 16. OTHER INFORMATION

### Additional Information:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### Disclaimer:

#### NOTICE TO READER:

Ingredient Depot, expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Ingredient Depot Sales Office.

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\*\*\*END OF MSDS\*\*\*