

SAFETY DATA SHEET

SECTION: 1. IDENTIFICATION

Product Name: GLYCERINE 99.7% USP GRADE (PALM BASED) (All Sizes, All SKUs, and All UPCs)
Recommended use: ALL PROPER AND LEGAL PURPOSES
Recommended restrictions: None known
CAS #: 56-81-5
Company: Essential Depot, Inc.
4605 Oak Circle
Sebring, FL 33870
Phone: 863-662-0481
Emergency Phone: CHEMTREC, Inside the USA: 1-800-424-9300

SECTION: 2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards: Not classified.
Environmental hazards: Not classified.
OSHA defined hazards: Not classified.
Label elements:
Hazard symbol: None.
Signal word: None.
Hazard statement: The substance does not meet the criteria for classification.
Precautionary statements:
Prevention: Observe good industrial hygiene practices.
Response: Wash hands after handling.
Storage: Store away from incompatible materials.
Disposal: Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC): None known.
Supplemental information: 100% of the mixture consists of component(s) of unknown acute oral toxicity.
100% of the mixture consists of component(s) of unknown acute dermal toxicity.

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100% of the mixture consists of component(s) of unknown acute inhalation toxicity.

SECTION: 3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
GLYCEROL		56-81-5	100

SECTION: 4. FIRST AID MEASURES

Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact:	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact:	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed:	Headache. Nausea, vomiting.
Indication of immediate medical attention and special treatment needed:	Treat symptomatically.
General information:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION: 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Alcohol resistant foam. Dry powder. Carbon dioxide (CO2).
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Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed
Special protective equipment and precautions for firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions:	Move containers from fire area if you can do so without risk.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

SECTION: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Keep unnecessary personnel away. For personal protection, see section 8 of the SOS.
Methods and materials for containment and cleaning up:	Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SOS. For waste disposal, see section 13 of the SOS.
Environmental Precautions:	Avoid discharge into drains, water courses or onto the ground.

SECTION: 7. HANDLING AND STORAGE

Precautions for safe handling:	Observe good industrial hygiene practices.
Conditions for safe storage,	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SOS).

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including any
incompatibilities:

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limits:	No exposure limits noted for ingredient(s).
Biological limit values:	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment:

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin protection:	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards:	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Physical state:	Liquid.
Form:	Liquid.
Color:	Clear Colorless
Odor:	Odorless

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Odor threshold:	Not available
pH:	Not available.
Melting point/freezing point:	64 °F (17.78 °C)
Initial boiling point and boiling range:	554 °F (290 °C) 101.325 kPa
Flash point:	390.0 °F (198.9 °C)
Evaporation rate:	Not available.
Flammability (solid, gas):	Not applicable.
Upper/lower flammability or explosive limits:	
Flammability limit - lower(%):	Not available.
Flammability limit - upper(%):	Not available.
Explosive limit - lower(%):	Not available.
Explosive limit - upper(%):	Not available.
Vapor pressure:	Not available.
Vapor density:	3.17
Relative density:	Not available.
Solubility (water):	Miscible
Partition coefficient (n-octanol/water):	-1.76
Auto-ignition temperature:	739 °F (392.78 °C)
Decomposition temperature:	Not available.
Viscosity:	Not available.
Other information:	
Density:	10.51 lbs/gal, 1.26 g/ml
Dynamic viscosity:	17 mPa.s (77 °F (25 °C))
Explosive properties:	Not explosive.
Flammability class:	Combustible 111B estimated
Molecular formula:	C3-H8-O3
Molecular weight:	92.09g/mol
Oxidizing properties:	Not oxidizing.

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Percent volatile: 100 %
Specific gravity: 1.26
VOC: 100 %
100 % EPA estimated

SECTION: 10. STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Contact with incompatible materials

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation: No adverse effects due to inhalation are expected.

Skin contact: No adverse effects due to skin contact are expected.

Eye contact: Direct contact with eyes may cause temporary Irritation.

Ingestion: Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics: Headache. Nausea, vomiting.

Acute toxicity: Not known.

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation. This classification is not possible due to partial or the complete lack of data.

Serious eye damage/eye irritation: Direct contact with eyes may cause temporary irritation. This classification is not possible due to partial or the complete lack of data.

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- Respiratory sensitization:** Not a respiratory sensitizer. This classification is not possible due to partial or the complete lack of data.
- Skin sensitization:** This product is not expected to cause skin sensitization. This classification is not possible due to partial or the complete lack of data.
- Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. This classification is not possible due to partial or the complete lack of data.
- Carcinogenicity:** Not classifiable as to carcinogenicity to humans. This classification is not possible due to partial or the complete lack of data.
- IARC Monographs. Overall Evaluation of Carcinogenicity
 Not listed.
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1062)
 Not regulated.
- US. National Toxicology Program (NTP) Report on Carcinogens
 Not listed.
- Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects. However, this classification is not possible due to partial or the complete lack of data.
- Specific target organ toxicity - single exposure:** Not classified. This classification is not possible due to partial or the complete lack of data.
- Specific target organ toxicity - repeated exposure:** Not classified. This classification is not possible due to partial or the complete lack of data.
- Aspiration hazard:** Not an aspiration hazard. This classification is not possible due to partial or the complete lack of data.

SECTION: 12. ECOLOGICAL INFORMATION

- Ecotoxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
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GLYCEROL (CAS 56-81-5)		
Aquatic		

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Fish LC50 Rainbow trout, Donaldson trout 51000 -57000 mg/l, 96 hours
(Oncorhynchus mykiss)

Persistence and degradability: No data is available on the degradability of this substance.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)
-1.76

Mobility in soil: No data available.

Other adverse effects: The product contains volatile organic compounds which have a photochemical ozone creation potential.

SECTION: 13. DISPOSAL CONSIDERATION

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION: 14. TRANSPORT INFORMATION

DOT: Not regulated as dangerous goods.
DOT information on packaging may be different from that listed.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

SECTION: 15. REGULATORY INFORMATION

US federal regulations: This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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TSCA Section 12(b) Export Notification (**40 CFR 707, Subpt. D**)

Not regulated.

CERCLA Hazardous Substance List (**40 CFR 302.4**)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (**29 CFR 1910.1001-1052**)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SOWA)

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace
 GLYCEROL (CAS 56-81-5) Other Flavoring Substances with OSHA PEL's

US state regulations

California Proposition 66

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION: 16. OTHER INFORMATION

Revision Date(s): June 21, 2024, February 01, 2024, February 12, 2019

Issue date: February 1, 2019

Version #: 03

HMIS® ratings:
 Health: 0
 Flammability: 0
 Physical hazard: 0

NFPA ratings:
 Health: 1
 Flammability: 1
 Instability: 0

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