



HMIS®

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Personal Health	

MATERIAL SAFETY DATA SHEET

Glycerin - Kosher

Section 1: Chemical Product and Company Identification

Product Name: Glycerin - USP

Catalog Codes:

Glycerin Vegetable KOSHER USP - 1 Pint (17.5 oz)

Glycerin Vegetable KOSHER USP - 1 Quart (35 oz)

Glycerin Vegetable KOSHER USP - 1 Gallon

Glycerin Vegetable KOSHER UPS - 2 Gallons -

FREE SHIPPING

1 Gallon Veg Glycerin + 1 Gallon Propylene Glycol

- FREE SHIPPING

Synonyms:

Glycerin USP

Glycerin 99.5%, USP

Glycerol

Glycerin Mist

Emery 912

Emery 914

Emery 915

Emery 916

Emery 917

Chemical Name: 1,2,3-Propanetriol

Chemical Family: Triol, Aliphatic Alcohol

Chemical Formula: C₃H₈O₃ ; HO - CH₂ - CHOH -

CH₂ - OH

Contact Information:

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Sebring, FL 33875

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(800) 424-9300

(703) 527-3887 (International)

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(863) 658-4230

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Section 2: Composition and Information on Ingredients

Composition:

Name

Glycerin

CAS#

56-81-5

% Concentration

99 - 100

Section 3: Hazards Identification

Emergency Overview:

Low risk for usual commercial and industrial handling.

Effects on skin and eyes may be delayed and damage can occur without the sensation of pain
necessity the strict adherence to the "First Aid Measures" in Section 4 immediately below and
to the "Exposure Controls / Personal Protection" in Section 8 below.

Can decompose at high temperatures forming toxic gases.

If prolonged exposure to high heat ensues, then contents may develop pressure.

Potential Exposure Effects:

Eyes: Possible mild, transient irritation.

Skin Contact: Non-irritating upon contact. Long-Term contact (such as clothing saturated with the product) may cause skin irritation.

Skin Absorption: Absorption of toxic amounts from a single prolonged skin exposure is not likely.

Inhalation: In the usual setting, inhalation is not a likely route of exposure at normally encountered temperatures. However, do not "mist" or "aerosolize" this product as mild respiratory irritation may be caused.

Ingestion: May cause mild gastrointestinal discomfort. Large amounts ingested may cause nausea, gastrointestinal discomfort, or abdominal pain.

Other Remarks:

May cause liver damage. Liver damaged is characterized by loss of appetite, jaundice (yellowish skin color), and occasional pain in the upper left side of the abdomen.

May cause central nervous system (CNS) depression. CNS depression is characterized by headaches, drowsiness, dizziness, nausea, vomiting, and incoordination.

Severe overexposure may lead to coma or possible death due to respiratory failure.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, forcibly keeping eyelids open. Cold water should be used. Seek immediate medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes then wash with soap and water. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if skin irritation, redness, or burning sensation develops or persists.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If not breathing and no pulse, administer cardiopulmonary resuscitation (CPR). Seek immediate medical attention.

Ingestion:

DO NOT induce vomiting unless instructed to do by medical personnel. Seek immediate medical attention. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt, or waistband. If alert, not convulsing, and not vomiting; rinse mouth and administer ½ glass - 1 glass of water to dilute material. If spontaneous vomiting occurs, have vomiting person lean forward with head down so that the vomiting person does not breathe in or ingest the vomitus; then rinse mouth and administer more water.

Note to Physicians:

Severe pneumonitis may be caused if aspirated. If ingestion occurred less than 2 hours ago, then administer a gastric lavage using an endotracheal cuff if at all possible to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Administer artificial resuscitation and other appropriate treatment if respiration is depressed.

Preexisting Conditions that may be Aggravated by this product:

Neurological Disorders
Cardiovascular Disorder
Diseases of the skin
Diseases of the eyes
Diseases of the respiratory tract
Liver Disorders
Kidney Disorders

Section 5: Fire and Explosion Data

Flammability Class (WHMIS):

Not regulated.

Auto-Ignition Temperature:

369°C (696.2 °F).

Flash Points:

159°C - 199°C (318.2°F - 390.2°F).

Flammable Limits:

No available.

Products of Combustion:

These products are carbon oxides (CO, CO₂) and irritating gases, each can be toxic.

Burn Rate:

Not available.

Explosive Power:

Not available.

Fire or Explosive Hazards:

Do not direct a solid stream of foam into hot, burning pools as it may cause splattering and increase the fire intensity.

If using water and the water gets below the surface of the liquid, then frothing may occur as the water turns to steam.

Sensitivity to Mechanical Impact:

Not expected.

Sensitivity to Static Discharge:

Not expected.

Fire Fighting Media / Extinguishing Media:

Use carbon dioxide or DRY chemical powder for small fires.

If only water is available, use it in the form of a fog.

Fire Fighting Instructions:

Isolate materials not involved in the fire.

Protection personnel (wear protective clothing and use self-contained breathing apparatus).

Cool containers with flooding quantities of water until well after the fire is extinguished.

Spillage of the product will make the surfaces slippery.

Section 6: Accidental Release Measures

Clean Up and Containment Procedures:

Contact Vendor at the top of Page 1 of this MSDS. Wear protective clothing, gloves, and proper breathing apparatus. Ventilate area. Collect in container for recovery or proper disposal (depending upon use as well as extent and kind of contamination, product may be used to usual purpose).

Spilled material may cause the surface to become slippery.

If package is damaged or leaking, place damaged or leaking package into an over-pack container immediately to minimize contamination or product loss.

There may be specific reporting requirements associated with your region for spills, leaks, or releases of this product. Notify the appropriate authority if spill, leak, or release could adversely affect the environment or is a reportable in your region.

Section 7: Handling and Storage

Handling:

Use in properly ventilated area.
Avoid breathing aerosols (vapors or mists).
Containers exposed to heat may be under pressure so those containers should be cooled and carefully vented prior to opening. Vent containers frequently in warmer conditions to relieve pressure.
Clean up immediately to avoid a slipping hazard.
Do not inhale or ingest.
Do not breathe gases from burning as those gases are toxic.
Wear suitable protective clothing.

Storage:

Store below 10 - 32°C (50 - 89.6°F).
Keep away from heat, sparks, and flames.
Avoid freezing!
Use well ventilated area (general exhaust is acceptable).
Vent containers frequently in warm conditions to relieve pressure.
Protect from sunlight.
Protect from physical damage.
Hygroscopic.

Section 8: Exposure Controls / Personal Protection

Exposure Controls:

Ventilate area. General exhaust (local is preferred) is acceptable if it also supplies air to replace the air being removed by the general exhaust.

Personal Protection:

Locate closest water source and closest eyewash station.
Contact lenses should not be worn when working with this material.
Safety glasses/goggles should be worn, preferably with side shields.
Use gloves and protective clothing.
No respiratory equipment should be necessary unless a mist is created or the product is heated. If a mist is created or the product is heated, then a NIOSH/MSHA approved respiratory apparatus should be used.

Exposure Limits:

ACGIH TLV (STEL)	OSHA PEL (TWA)	NIOSH REL (TWA)
--	5 mg/m ³	--

Section 9: Physical and Chemical Properties

Physical state and appearance:

Viscous liquid that is virtually clear.

Odor:

Odorless.

Taste:

Sweet, however, practically tasteless.

pH:

Neutral

Boiling Point:

182 - 290°C (359.6 - 554°F).

Melting Point:

18 - 20°C (64.4 - 68°F).

Critical Temperature:

Section 9: Physical and Chemical Properties

Specific Gravity:

.

Vapor Pressure:

<1mm Hg at 20°C (68°F).

Vapor Density:

3.17

Air = 1.0

Relative Density (g/cc):

1.00 - 1.260

Bulk Density:

1000 - 1260 kg/m³

Viscosity:

1490 mPa.s; 1490cP.

VOC Content:

Not available.

Volatility:

Not available.

Water/Oil Dist. Coeff.:

<0.

Evaporation:

Not available.

Solubility:

Soluble in water.

Hygroscopic.

Section 10: Stability and Reactivity Data

Stability:

The product is stable under normal conditions.

Instability Temperature:

Flammable under fire conditions.

Temperatures above 149°C (300.2°F).

However, when exposed to excess heat, product in sealed container is under pressure and the pressure should be carefully relieved.

Toxic gases may result when exposed to excess heat or is misted or vaporized.

Conditions of Instability:

Temperatures above 149°C (300.2°F).

Flammable under fire conditions.

Incompatibility with various substances:

Strong oxidizers.

Lewis or mineral acids.

Materials reactive with hydrosyl bearing compounds.

Isocyanates.

Strong bases.

Moisture.

Hygroscopic.

Special Remarks on Reactivity:

Product can react explosively with potassium chlorate, phosphorous trioxide, perchloric acid, chlorine, calcium hypochlorite, nitric acid, hydrofluoric acid, sulphuric acid, sodium peroxide, potassium permanganate, hydrogen peroxide, chromium trioxide, sodium hydride.

Section 10: Stability and Reactivity Data

Polymerization:

Hazardous polymerizations above 149°C (300.2°F).

Section 11: Toxicological Information

This product is **not classified as carcinogenic** by OSHA, ACGIH, IARC, or NTP.

No adverse reproductive, mutagenic, teratogenic effects were anticipated.

No known data on skin or respiratory sensitization.

Alcohols may interact **synergistically** with chlorinated solvents, dithiocarbamates, dimethylnitrosamine, and thioacetamide.

Toxicological Data:

Oral toxicity (LD50): 12,600 mg/kg (rat)
Dermal toxicity (LD50): >10,000 mg/kg (rabbit)
Inhalation toxicity (LC50): >285 mg/m³ (rat, 4h)

Other Relevant Studies:

Application of 0.1 mL of 100% Glycerol to eyes of rabbits caused no irritation (corneal capacity 0/4; iris injury 0/2; redness 0/4; chemosis (edema) 0/4.

Section 12: Ecological Information

Ecotoxicity:

Not available.
But may be harmful to aquatic life.

Environmental Fate:

This product is biodegradable.
Do not contaminate drinking water intakes, lakes, ponds, streams, or rivers.
Do not contaminate domestic or irrigation water supplies.

BOD5 and COD:

0. 87, 5 days
1. 16.

Section 13: Disposal Considerations

Waste Disposal:

Disposal of wster product at an approved facility, not your own sewer system or normal garbage.
Comply with federal, state, and local regulations.
It is the user's responsibility to determine whether hazardous waste criteria is met for the product at the time of disposal. This is because product uses, transformations, modifications, mixtures, processes, etc... could render the product hazardous under certain criteria.

Packaging Disposal:

Packaging contains residue. Thoroughly wash out container prior to disposal.

Section 14: Transport Information

DOT Classification:

Not a DOT regulated material (United States).

Section 14: Transport Information

Identification:

Not applicable.

Special Provisions for Transport:

Not applicable.

Not regulated by DOT, IMDG, ICAO, or TDG.

Section 15: Other Regulatory Information

Federal and State Regulations:

Not regulated by OSHA.

Under California's Prop. 65, there are no detectable components of this product that are substances, or belong to a class of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Other Regulations:

Listed in or exempt from the TSCA Inventory.

Listed in or exempt from the Canadian DSL.

Not regulated by WHMIS Classification.

Listed in or exempt from the EINECS or the ELINCS.

Other Classifications:

None necessary.

Nation Fire Protection Association (U.S.A.):

Health: 0.

Flammability: 1.

Reactivity: 0.

Specific Hazard:

Protective Equipment:

Gloves.

Protective Clothing.

Ventilation.

Respirator.

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

Protective eye wear/cover.

Section 16: Other Information

References:

MSDS of Supplier and of other suppliers.

RTECS - Registry of Toxic Effects of Chemical Substances, Canadian Center for Occupational Health and Safety RTECS database.

CHEMINFO, through "CCINFODisc", Canadian Center for Occupational Health and Safety, Hamilton, Ontario, Canada.

The British Columbia Drug and Poison Information Center, Poison Managements Manual, Canadian Pharmaceutical Association, Ottawa, 1981.

Guide To Occupational Exposure Values, 2005, American Conference of Governmental Industrial Hygienists, Cincinnati, OH, 2005.

Clayton, G.D. and Clayton, F.E., Eds., Patty's Industrial Hygiene and Toxicology, 3rd ed, Vol. IIA,B,C, John Wiley and Sons, New York, NY., 1981.

Registry of Toxic Effects of Chemical Substances maintained by Symyx Technologies.

Section 16: Other Information

Other Special Considerations:

The information above is believed to be accurate and represents the best information currently available to Essential Depot, Inc. However, Essential Depot, Inc. makes no warranty of merchantability or any other warranty, express or implied, (including for any particular purpose) with respect to such information, and assumes no liability resulting from the use of this product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This information is provided independently of any product sale. This data is part of Essential Depot's safety program and is intended to communicate hazard information about the product as well as be a guide for implementation of your own safety program. This data only applies to the product as sold and not to the product in use or the product in combination with anything else. In no event shall Essential Depot, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Essential Depot, Inc. has been advised of the possibility of such damages.

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Last Revision:

Not Applicable

Section(s) Revised:

Not applicable.