

MATERIAL SAFETY DATA SHEET

GLYCERIN

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SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT: Glycerin, USP

SYNONYMS: Glycerol, 1,2,3-Propanetriol

MOLECULAR FORMULA: $C_3H_8O_3$ MOLECULAR WEIGHT: 92.09

<u>INGREDIENT (CAS #)</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Glycerin (56-81-5)	95-100	N/A	N/A
Water (7732-18-5)	0-5	N/A	N/A

SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: 550°F VAPOR PRESSURE: N/A

MELTING POINT: N/A VAPOR DENSITY: N/A

SPECIFIC GRAVITY: 1.26 EVAPORATION RATE: N/A
(WATER = 1) (BUTYL ACETATE = 1)

WATER SOLUBILITY: 100% WATER REACTIVE: No

APPEARANCE AND ODOR: Clear, colorless, viscous liquid with a bland odor.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): 320°F (TCC)

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contact with strong oxidizers may cause an explosion. As with any organic compound, this material may produce toxic carbon monoxide and dioxide gases if heated to decomposition.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable (X) Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): Contact with strong oxidizing agents may cause an explosion.

HAZARDOUS DECOMPOSITION PRODUCTS: May liberate acrolein.

HAZARDOUS POLYMERIZATION: May Occur () Will Not Occur (X)

SECTION 5 - HEALTH HAZARD DATA

TOXICITY: LD₅₀: Oral (rat) 12.6 mg/kg

CARCINOGEN LISTED BY:	NTP	Yes ()	No (X)
	IARC	Yes ()	No (X)
	OSHA	Yes ()	No (X)
	Other	Yes ()	No (X)

ROUTES OF ENTRY: Inhalation, ingestion, contact.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

INHALATION: May cause irritation of the respiratory tract.

EYE CONTACT: May cause irritation.

SKIN CONTACT: May cause irritation.

INGESTION: May cause irritation of the gastrointestinal tract, nausea, vomiting, headache, thirst.

CHRONIC EFFECTS OF OVEREXPOSURE: Dehydration, diarrhea, convulsions, paralysis, hemolysis.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Dehydration, diarrhea.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. If not breathing give artificial respiration and seek medical attention.

EYE CONTACT: Flush with water for at least 15 minutes. Seek medical attention.

SKIN CONTACT: Wash with soap and water. If irritation persists or develops, seek medical attention.

INGESTION: Seek medical attention or contact a poison control center immediately.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: A NIOSH-approved respirator should be used if ventilation is not adequate.

PROTECTIVE GLOVES: Rubber.

EYE PROTECTION: Safety glasses or goggles.

VENTILATION: General room ventilation is normally adequate.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK PRACTICES: Do not eat, drink or smoke near this material. Wash any contaminated clothing before reuse. Avoid wearing contact lenses when working with this material due to the possibility of increased severity of eye damage.

SECTION 7 - HANDLING AND STORAGE PRECAUTIONS

HANDLING PRECAUTIONS: Avoid contact with eyes, skin or clothing. Avoid breathing mist.

STORAGE PRECAUTIONS: Store in a cool, dry, well ventilated location in a tightly sealed container.

OTHER PRECAUTIONS: Containers, even those that have been emptied, will contain product residue and vapors, and should be treated as if they were full.

SECTION 8 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear all protective equipment including: respirator, goggles, gloves. Mop up spillage with an absorbent material and place in a tight container for later disposal. Avoid contamination of sewers, storm drains, surface waters and soils. Wash thoroughly after handling and wash all clothing and protective equipment before reuse.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable local, state, federal, and environmental regulations.

SECTION 9 - DISCLAIMER

The information contained in this Material Safety Data Sheet has been compiled from reliable sources and is believed to be correct as of the date issued. It is the responsibility of the user to determine the appropriateness and applicability to their situation. Paddock Laboratories, Inc. disclaims any expressed or implied warranty as to the accuracy of the above information and shall not be held liable for any direct, incidental, or consequential damages from use or reliance on the above information.

DEFINITIONS OF ABBREVIATIONS USED:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstract Service
IARC:	Internal Agency for Research on Cancer
IDLH:	Immediately Dangerous to Life or Health level
LC ₅₀ :	Median Lethal Concentration
LD ₅₀ :	Median Lethal Dose
N/A:	Not available
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value