

GLYCERIN

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: Glycerin
 INCI Name: Glycerin
 Chemical Name: Glycerol
 CAS Number: 56-81-5
 EINECS Number: 200-289-5
 Origin:

Ingestion: Acute effects from oral overexposure: Diarrhea & vomiting, cramps, increased pulse and respiration rate, increased body temperature, falling blood pressure.

2. PHYSICAL & CHEMICAL PROPERTIES

Boiling / Melting Point: 554°C (1029°F) liquid at RT
 Specific Gravity, H₂O= 1: 1.21
 Vapor Pressure, mmHg: 2.4 at 140°C
 Vapor Density, Air= 1: > 1
 Volatiles, % by Volume: not available
 Evaporation Rate: < 1
 Solubility in Water: soluble
 HLB Value: not available
 Appearance: clear, slightly viscous liquid

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.
 Skin: Wash exposed areas of the body with water.
 Inhalation: Remove from area of exposure to fresh air, seek medical attention if symptoms persist.
 Ingestion: Give small amounts of water to drink to dilute glycerin. If symptoms develop, consult medical personnel. Never give anything to mouth to an unconscious person.

3. STABILITY & REACTIVITY

General: stable, hazardous polymerisation will not occur
 Incompatible Materials / Conditions to Avoid: nitric acid, potassium permanganate, oxidants
 Hazardous Decomposition Products: Acrolein if heated to 260°C (500°F)

9. FIRE FIGHTING MEASURES

NFPA Hazard Rating: Health: 0 Flammability: 1 Reactivity: 1
 Flash Point: 390°C (734°F)
 Fire Point: 204°C (400°F)
 Extinguishing Media: Dry chemical, foam, CO₂, water.
 Unusual Fire & Explosion Hazards: Cool as rapidly as possible to reduce toxic acrolein level. (Acrolein formed at boiling point is explosive with air).
 Special Fire Fighting Procedures: Firefighters should use self-contained NIOSH approved breathing apparatus to avoid exposure to smoke and vapor.

4. HANDLING & STORAGE

Store in closed containers between 50°F and 120°F protected from humidity. Keep away from oxidizing agents, excessive heat, and ignition sources. Store and use in well ventilated areas. Do not store or use near heat, spark, or flamer; also store out of sun.
 Precautions: To retain color and purity store in stainless steel vessels with provision made to protect against absorption of moisture from air.

10. TOXICOLOGICAL INFORMATION

LD50: not available
 Teratogenicity, Carcinogenicity: no data available

5. ACCIDENTAL RELEASE MEASURES

Spill Clean-up Procedures: Remove sources of ignition, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with water or absorbent materials such as paper towels. Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent. Caution: slippery surface.

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: If used at temperatures > 140°C (> 284°F), wear a NIOSH approved organic vapor/mist respirator.
 Protective Clothing: Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.
 Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

12. TRANSPORT INFORMATION

UN Hazard Class: n/a
 NFPA Codes: Health: 0 Flammability: 1 Reactivity: 1

7. HAZARDS IDENTIFICATION

General: Primary route of exposure under normal use: Skin

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

ALL DATA HEREIN ARE ALL AS PER OUR SUPPLIER.