

Material Safety Data Sheet

(16550-100)

Section 1: Chemical Product and Company Identification

Product Name: Glycerine

Catalog Number: 16550-100

CAS#: 56-81-5

Contact Information:

Electron Microscopy Sciences

1560 Industry Road

Hatfield, PA 19440

1-215-412-8400 (phone)

1-800-523-5874 (toll-free)

1-215-412-8450 (fax)

Order Online: emsdiasum.com

CHEMTREC (24-Hour Emergency Telephone), call: 1-800-424-9300

Section 2: Composition and Information on Ingredients

Emergency Overview

SAF-T-DATA™ Ratings (Provided here for your convenience)

Health Rating: 1 – slight (Life)

Flammability Rating: 0 – None

Reactivity Rating: 0 – None

Contact Rating: 2 – Moderate

Lab Protective Equipment: Goggles and shield; lab coat and apron; vent hood; proper gloves

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation: Irritation of nose and throat, headache, nausea, vomiting, narcosis, respiratory failure, low blood pressure, central nervous system depression.

Ingestion: If discomfort exists, contact a physician.

Skin Contact: May cause irritation.

Eye Contact: May cause irritation including singing, tearing, and redness.

Chronic Exposure: No harmful effects expected.

Section 3: Hazards Identification

CAS#	Chemical Name	Percent	Hazardous
56-81-5	Glycerine	100	No

Section 4: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub eyes or keep eyes closed.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 capfuls of milk or water. Get medical and if irritation or symptoms occur.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire and Explosion Data

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Ratings: Health: 1

Flammability: 0

Reactivity: 0

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers.

Section 7 : Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. **Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Section 8: Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g, lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9: Physical and Chemical Properties

Appearance: Clear, viscous liquid

Odor: None

Solubility: Soluble in water, 100% @ 20°C

Specific Gravity: @25°C 1.261

Boiling Point: @ 760 mm Hg: 290°C (550°F)

Melting Point: 17.8 °C (64°F)

Section 10: Stability and Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers such as hydrogen

Hazardous Decomposition Products: Carbon monoxide and/or carbon dioxide and acrolein

Conditions to Avoid: Heat, flame.

Section 11: Toxicological Information

No information found.

Section 12: Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14: Transport Information

Not regulated.

Section 15: Other Regulatory Information

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

Section 16: Other Information:

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