



**GLYCEROL**  
**Glycerol Standard Reference**  
**Safety Data Sheet**

According to Regulation (EC) No. 1907/2006  
OSHA Regulation 29 CFR 1910.1200  
Canadian Regulation SOR/88-66

**Revision Date:** 2010-12-01  
**Reason for Revision:** Regulation (EC) No. 1272/2008 Compliance

**SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY**

**Product Name:** Glycerol Standard Reference      **Additional Product Codes:** HI 93703-57  
**Application:** Maple Syrup Analysis  
**Company Information (USA):** Hanna Instruments, Inc.  
584 Park East Dr, Woonsocket, Rhode Island, USA 02895  
**Technical Service Contact Information:** 1-800-426-6287 (8:30AM - 5:00PM ET)  
+1-401-766-4260 (8:30AM - 5:00PM ET)  
**USA Emergency Contact Information:** 1-800-424-9300 (Chemtrec 24Hr. Emergency)  
**International Emergency Contact Information:** +1-703-527-3887 (Chemtrec 24Hr. Emergency)  
**E-mail Address:** tech@hannainst.com

**SECTION 2: HAZARD IDENTIFICATION**

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC.  
Non-hazardous product as specified in OSHA Regulation 29 CFR 1910.1200.  
Non-hazardous product as specified in Canadian Regulation SOR/88-66.  
Non-hazardous product as specified in Regulation (EC) 1272/2008.

**SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

Non-hazardous Liquid

**SECTION 4: FIRST AID MEASURES**

**After Inhalation:** Remove to fresh air. Give artificial respiration if victim is not breathing.  
**After Skin Contact:** Wash affected area with soap and plenty of water.  
**After Eye Contact:** Flush eyes with water as a precaution.  
**After Swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water.  
**General Information:** Not available

**SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**  
Water Spray, Alcohol-Resistant Foam, Dry Chemical, Carbon Dioxide  
**Special Risks:**  
Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire.  
**Special Protective Equipment:**  
Wear self contained breathing apparatus for fire fighting if necessary  
**Additional Information:**  
Ignition temperature 370 °C (698 °F)

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Avoid breathing vapors, mist or gas.

**Environmental Precautions:**

Do not let product enter drains.

**Additional Notes:**

Keep in suitable, closed containers for disposal.

**SECTION 7: HANDLING AND STORAGE**

**Handling:**

Normal measures for preventive fire protection.

**Storage:**

Keep container tightly closed in a dry and well-ventilated place.

**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

**Engineering:**

Maintain general industrial hygiene practice.

**Personal Protective Equipment:**

As appropriate to quantity handled.

**Respiratory Protection:**

Respiratory protection is not Required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Protective Gloves:**

Handle with gloves

**Eye Protection:**

Safety glasses

**Industrial Hygiene:**

General industrial hygiene practice.

**SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**

**Appearance:** Clear liquid

**Odor:** Odorless

**Density at 20 °C:** 1.26 g/cm<sup>3</sup>

**Melting Point:** 20 °C

**Boiling Point:** 290 °C

**Solubility:** Soluble

**pH at 20 °C:** 5.5 - 8

**Explosion Limit:** 0.9 %(V)

**Flash Point:** 160 °C (320 °F)

**Thermal Decomp.:** NA

**SECTION 10: STABILITY AND REACTIVITY**

**Conditions to be Avoided:**

**Hazardous Decomposition Products:**

Carbon oxides

**Hazardous Polymerization:**

Will not occur.

**Substances to be Avoided:**

Strong bases, Strong oxidizing agents

**Further Information:**

Stable under recommended storage conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Product Toxicity**

Acute toxicity  
LD50 (Oral, rat): 12,600 mg/kg  
LC50 (Inhalation, rat): 1 h - > 570 mg/m<sup>3</sup>  
LD50 (Dermal, rabbit): 10,000 mg/kg  
Irritation and corrosion  
Skin, rabbit: Mild skin irritation 24 h  
Eyes, rabbit: Mild eye irritation 24 h  
Sensitization:  
No data available  
Chronic exposure:  
no data available  
Signs and Symptoms of Exposure prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting

**Potential Health Effects:**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin Contact:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eye Contact:** May cause eye irritation.  
**Ingestion:** May be harmful if swallowed.  
**Further Data:** Target Organs: Kidney

**Component Toxicity**

**Acute Toxicity:**

Not Available

**Chronic Toxicity:**

Not Available

**Additional Data:**

Not Available

**SECTION 12: ECOLOGICAL INFORMATION**

Toxicity to fish  
LC50:Carassius auratus (goldfish): 5,000 mg/L  
LC50:Pimephales promelas (fathead minnow): 44,000 mg/L  
LC50:other fish: 100,100 mg/L  
LC50:Oncorhynchus mykiss (rainbow trout): 67,500 mg/L - 96 h

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Can be safely disposed of as ordinary refuse.

**SECTION 14: TRANSPORTATION INFORMATION**

**Land:**

Not subject to transport regulations.

**Sea:**

Not subject to transport regulations.

**Air:**

Not subject to transport regulations.

**SECTION 15: REGULATORY INFORMATION**

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.  
Complies with European Council Directives 67/548/EEC and 1999/45/EC.  
Complies with OSHA Regulation 29 CFR 1910.1200.  
Complies with Canadian Regulation SOR/88-66

**SECTION 16: OTHER INFORMATION**

*Text of phrases under Section 3*

NA

***Revision Information***

**Revision Date:** 2010-12-01

**Supersedes edition of:** 2009-06-10

**Reason for revision:** Regulation (EC) No. 1272/2008  
Compliance

***Legend***

NA: Not Applicable  
ND: Not Determined

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR  
KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE  
APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF  
THE PROPERTIES OF THE PRODUCT.**