



## 1. PRODUCT AND SUPPLIER INFORMATION

**Product Name:** MicroCglycerin™      **Publication Date:** May 7, 2010  
**Product Code:** NA      **Replaces:** January 16, 2009

Supplier Information:  
 Environmental Operating Solutions, Inc      Phone: 508-743-8440  
 160 MacArthur Blvd., Unit 6      Fax: 508-743-8443  
 Bourne, MA 02532      Website: www.eosenvironmental.com

**EMERGENCY TELEPHONE NUMBER:**      **CHEMTREC**      **800-424-9300**

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS

**Common Name**      Crude Glycerin / Crude Glycerol  
**Chemical Family**      Glycerin, containing water, salt  
**Trace Elements (Less than 1%)**      Methanol, fatty acids, preservative  
**Chemical Formula**      C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>

Chemical Name	CAS #	% by Weight
Glycerin	56-81-5	70 (± 1%)
Water	7732-18-5	26 (± 3%)
Sodium Chloride	7647-14-5	4.75 (± 1.75%)
Fatty Acid	8039-43-8	0.05-0.6
Methyl Alcohol	67-56-1	0 -0.06

## 3. HAZARDS IDENTIFICATION

**CAUTION!**      **EMERGENCY OVERVIEW**      **CAUTION!**  
**MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT**

OSHA Hazard Classification: Not known to be a hazardous substance.  
 Principle Routes of Entry: Inhalation, skin contact, eye contact

### Hazard Summary

	NFPA	HMIS
Health Hazard	1	1
Flammability	1	1
Reactivity	0	0
Specific Hazard	None	None

### Acute Toxicity

Eyes      May cause slight irritation  
 Skin      May cause slight irritation  
 Inhalation      Inhalation of vapors may cause irritation of respiratory tract  
 Ingestion      May be harmful if swallowed in large quantities

**Chronic Health Effects:**      No known chronic health effects

# Material Safety Data Sheet

## 4. FIRST AID

<b>Eye Contact</b>	Immediately flush eyes thoroughly with plenty of water for 15 minutes and consult a physician if irritation develops
<b>Skin Contact</b>	Remove contaminated clothing and wash affected area with water. Consult physician if irritation develops
<b>Inhalation</b>	Remove individual to fresh air. Seek medical attention if breathing problems persist
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth and drink water to dilute. Seek medical attention.
<b>Note to physician</b>	Treat patient symptomatically

## 5. FIRE FIGHTING MEASURES

<b>Flammability Summary (OSHA and NFPA)</b>	Non-flammable Material
<b>Flash Point:</b>	None to Boil (Test Method ASTM D93)
<b>Autoignition Temperature</b>	No data
<b>Fire/Explosion Hazards</b>	Not sensitive to static discharge. Keep containers away from sources of ignition
<b>Extinguishing Media</b>	Use equipment appropriate to the main source of the fire. Water spray, foam, dry chemical or CO2
<b>Fire Fighting Instructions</b>	In the event of fire, wear full protective clothing and self contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Protection for Spills</b>	Use personal protective equipment. Ventilate area of leak or spill.
<b>Spill Information</b>	Contain spill. Absorb spill with dry absorbent.
<b>Environmental Precautions</b>	Dispose of contaminated materials in accordance with applicable national, state, and local regulations.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment
<b>Storage</b>	Keep containers closed when not in use. Minimize evaporative losses. Avoid storage in temperature extremes.
<b>Shelf Life Limitations</b>	Consult manufacturer prior to using if product is older than six months
<b>Incompatible Materials for Storage</b>	None known

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Engineering Controls</b>	Properly vented environment, showers, eye wash station
<b>Respiratory</b>	Not required under foreseeable conditions of use. If TLV is exceeded use NIOSH approved respiratory protection.
<b>Protective Clothing</b>	Protective gloves, body covering, good hygiene practices
<b>Eye Protection</b>	Chemical safety glasses or goggles

# Material Safety Data Sheet

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Volatiles, % by vol</b>	Not determined
<b>Color</b>	Light brown	<b>Boiling Point</b>	Not determined
<b>Odor</b>	Musty – Sweet Odor	<b>Freezing Point</b>	Below Zero Fahrenheit
<b>pH</b>	5.75-6.75	<b>Flash Point</b>	None to Boil (ASTM D93)
<b>Solubility in Water</b>	Miscible in water	<b>Vapor Pressure</b>	Not determined
<b>Bulk Density</b>	10.17 lbs/gal	<b>Viscosity</b>	45 cPs @ 20°C
<b>Specific gravity</b>	1.22@ 20°C		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal storage conditions
<b>Incompatible materials</b>	None known
<b>Incompatible chemicals</b>	Strong oxidants, strong acids
<b>Hazardous polymerization</b>	Does not occur
<b>Decomposition Products</b>	Glycerin decomposes upon heating above 290°C. Acrolein
<b>Conditions to Avoid</b>	Exposure to air for prolonged periods, heat, flames, ignition sources

## 11. TOXICOLOGICAL INFORMATION

<b>Routes of Entry</b>	Inhalation, skin, ingestion
<b>Carcinogenicity</b>	NTP: No OSHA: No IARC: No
<b>Toxicity to Animals</b>	LD50 Oral Rat: 12,600 mg/kg (Pure glycerin)
<b>Mutagenicity</b>	None

## 12. ECOLOGICAL INFORMATION

<b>Environmental Fate</b>	Product is biodegradable in soil and water. Product does not bioaccumulate.
<b>Environmental Toxicity</b>	TBD

## 13. DISPOSAL CONSIDERATIONS

Do not dump into sewers, the ground or any body of water. This material as supplied, is not a hazardous waste according to Federal Regulations (CFR 261). Dispose of in accordance with local, state and federal regulations.

## 14. TRANSPORTATION INFORMATION

<b>US Domestic DOT</b>	Not Regulated
<b>DOT Shipping Name</b>	Crude Glycerin
<b>Reportable Quantity per 49CFR172.101</b>	Not Regulated

# Material Safety Data Sheet

## 15. REGULATORY INFORMATION

### United States

#### Toxic Substances Control Act

The components of this product are listed on the TSCA Inventory of Existing Chemical Substances

#### SARA Section 313

This product contains trace amounts of a chemical that is subject to reporting requirements of SARA

Methanol CAS # 67-56-1 % Weight 0-0.06% SARA 313 Threshold 1%

#### SARA Section 311/312 Hazard Categories

Acute - NO  
Chronic - NO  
Physical - None  
Pressure Hazard - NO  
Fire Hazard - NO

#### Section 302 (EHS) TPQ

Not applicable

#### Section 304 (EHS) TPQ

Not applicable

### CERCLA

This product contains trace amounts of a chemical that is subject to reporting requirements of CERCLA

Methanol RQ # 5,000. Product contains 0.0-0.06% methanol by weight

#### State Right to Know Regulations

**Chemical Name: Glycerin**

Massachusetts, Pennsylvania, Rhode Island

## 16. ADDITIONAL INFORMATION

MSDS REVISION STATUS: Revision May 7, 2010 Replaces January 16, 2009.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. WE BELIEVE THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF ITS PUBLICATION DATE, BUT MAKE NO WARRANTY THAT IT IS. IF THIS MSDS IS MORE THAN THREE YEARS OLD YOU SHOULD CONTACT THE SUPPLIER TO MAKE CERTAIN THAT THE INFORMATION IS CURRENT.