

# MATERIAL SAFETY DATA SHEET

Ethylene Glycol

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Ethylene Glycol  
Product Code: 152-55-4  
Material Uses:  
Manufacturer: OFI Testing Equipment, Inc.  
11302 Steeplecrest Drive  
Houston, TX 77065 USA  
Phone: (713) 880-9885  
Fax: (713) 880-9886  
Entry Date : 5/6/2010  
Print Date: 7/28/2010  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2			
Flammability:	1			
Reactivity:	0			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable		NE = Not Established		

## SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview:Warning! Harmful Or Fatal If Swallowed. Harmful If Inhaled Or Absorbed Through Skin. May Cause Allergic Skin Reaction. May Cause Irritation To Skin, Eyes, And Respiratory Tract. Affects Central Nervous System.

Inhalation:Avoid breathing vapor or dust. Use with adequate ventilation.

Ingestion:May be harmful if swallowed.

Skin:Avoid contact with skin, and clothes. Wash thoroughly after handling. Keep container closed.

Eye Contact:Avoid contact with eyes

Chronic Exposure:No Information Found.

Aggravated by Exposure:No Information Found.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Ethylene Glycol	CAS# 107-21-1	100%	V/V	OSHA PEL 127 mg/m <sup>3</sup> (50 ppm) ceiling, Vapor & mist

## SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes,

## Ethylene Glycol

skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

### SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Apply alcohol or all purpose foam for larger fires. Carbon dioxide may be used for smaller fires.

Fire / Explosion Hazards: Fire possible at elevated temperatures.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Ventilate Area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Contain and Recover Liquid when Possible. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust.

### SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	-12.7° C (7° F)	Percent Volatile by Volume:	Information not available
Boiling Point:	192.7 - 205° C (379-401F)	Evaporation Rate	< 1
Vapor Pressure:	0.08 mmHG	Evaporation Standard	
Vapor Density:	2.1	Auto Ignition Temp	397.7 C (748°F)

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Solubility in Water:	Soluble	Lower Flamm. Limit in Air	3.2 approximate
Appearance /Odors:	Colorless mildly sweet liquid	Upper Flamm. Limit in Air	15.3 approximate
Flash Point:	111.1 C (232 F)		
Specific Gravity:	1.115 @20 C		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	None known
Materials to Avoid:	Strong acids, bases, strong oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, toxic fumes
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

**SECTION 11 Toxicological Information**

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

**SECTION 12 Ecological Information**

Environmental Fate:When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material is not expected to significantly bioaccumulate. This material has a log octanol-water partition coefficient of less than 3.0. When released into water, this material is not expected to evaporate significantly. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals.

Environmental Toxicity:When released into the air, this material is expected to have a half-life between 1 and 10 days.  
The LC50/96-hour values for fish are over 100 mg/l.

**SECTION 13 Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**SECTION 14 Transport Information**

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

Chemical Inventory Status –  
Part 1:Ingredient TSCA EC Japan Australia  
Ethylene Glycol (107-21-1)Yes Yes Yes Yes

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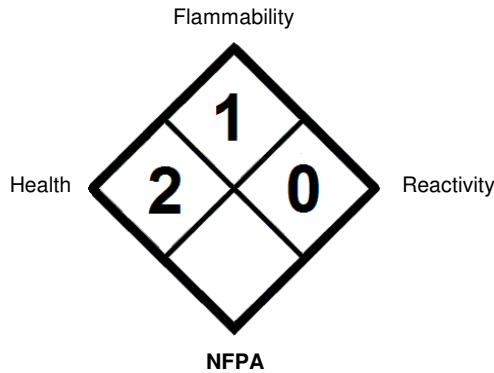
Chemical Inventory Status –  
Part 2:Ingredient Korea DSL NDSL Phil.  
Ethylene Glycol (107-21-1)Yes Yes NO Yes

Federal, State & International Regulations –  
Part 1: Ingredient RQ TPQ List Chemical Catg.  
Ethylene Glycol (107-21-1))NO NO Yes NO

Federal, State &  
International Regulations –  
Part 2:Ingredient CERCLA 261.33 8(d)  
Ethylene Glycol (107-21-1) 5000 No No  
Chemical Weapons  
Convention: No  
TSCA 12 (b):No  
CDTA:No  
SARA 311/312: Acute: Yes Chronic: Yes  
Fire: NO Pressure: No  
Reactivity: No PURE/Liquid)  
Australian Hazchem NONE ALLOCATED  
Poison Schedule:NONE ALLOCATED

**SECTION 16 Additional Information**

Warning! Harmful or fatal if swallowed. Harmful if inhaled or absorbed through the skin. May cause allergic skin reaction. May cause irritation to skin, eyes and respiratory tract. Affects nervous system. Ingestion may cause abdominal discomfort, pain or nausea,blurred vision, and central nervous system disorders. Eye contact may cause irritation, tear production, redness. May aggravate existing kidney condition. Persons with preexisting eye, skin or respiratory problems may be more susceptible. Target organs: kidney, central nervous system.



**Revisions**

7/28/2010	0.1	updated msds to 16 section from 10 section msds. STN
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