

**VYCERIN™ GL99 Glycerine**  
Material Safety Data Sheet  
Date(s): 2010-10-08  
Version: 7  
MSDS#: 807926



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### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name</b>	<b>VYCERIN™ GL99 Glycerine</b>
<b>Product Use</b>	Commercial product
<b>Address/Telephone number</b>	Vantage Oleochemicals 4650 South Racine Avenue Chicago, IL 60609 USA Vantage Oleochemicals Operator (Mon.-Fri. 9:00 AM - 5:00 PM Central): (773) 376-9000
	Medical Emergency (24 hr.): (888) 456-6218 Transportation Emergency Involving Chemical Spills, Leaks, Fires, or Accidents (24 hr.): (800) 424-9300

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### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Component Name</b>	<b>CAS Number</b>	<b>% (w/w)</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
1,2,3-Propanetriol	56-81-5	99.7	15 mg/m3 TWA (total); 5 mg/m3 TWA (respirable fraction)	10 mg/m3 TWA

Ingredients not precisely identified are proprietary or nonhazardous.  
Values are not product specifications.

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### **3. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

<b>Color</b>	colorless
<b>Form</b>	Liquid
<b>Odor</b>	characteristic odor

#### **INHALATION (TLV).**

Limited toxicity data are available on a similar material; this health hazard assessment is based on the results of those screening tests.

**VYCERIN™ GL99 Glycerine**  
Material Safety Data Sheet  
Date(s): 2010-10-08  
Version: 7  
MSDS#: 807926



<b>Eye contact</b>	No irritation is likely to develop following contact with human eyes.
<b>Skin contact</b>	No irritation is likely to develop following contact with human skin. No toxic effects are expected if absorbed through the skin.
<b>Inhalation</b>	Unlikely to be hazardous by inhalation unless present as an aerosol. High concentrations of mists or aerosols may irritate respiratory passages. No toxic effects are known to be associated with inhalation of this material.
<b>Ingestion</b>	This material is not likely to cause irritation upon ingestion. No toxic effects are expected following ingestion of this product.
<b>Other</b>	Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

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#### **4. FIRST AID MEASURES**

<b>Eye contact</b>	Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.
<b>Skin contact</b>	Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention.
<b>Inhalation</b>	Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.
<b>Ingestion</b>	<b>DO NOT INDUCE VOMITING.</b> Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

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#### **5. FIRE-FIGHTING MEASURES**

<b>Flash Point (°F)</b>	351(open cup)
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**VYCERIN™ GL99 Glycerine**  
Material Safety Data Sheet  
Date(s): 2010-10-08  
Version: 7  
MSDS#: 807926



Flash Point (°C)	177(open cup)
Autoignition Temperature (°F)	752
Autoignition Temperature (°C)	400
Flammable Limits	Not applicable.
Extinguishing Media	Water fog, alcohol foam, carbon dioxide, dry chemical.
Special fire-fighting protective equipment	A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.
Fire and explosion hazards	None known.
Combustion products	During burning poisonous acrolein may be formed
Explosion data	
Sensitivity to mechanical impact	No data.
Sensitivity to static discharge	No data.

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#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions	Refer to section 8 for proper personal protective equipment.
Steps to be taken in case material is released or spilled	Contain spill. Soak up material with absorbent and shovel into a chemical waste container. Wash residue from spill area with water containing detergent and flush to a sewer serviced by a permitted wastewater treatment facility.

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#### **7. HANDLING AND STORAGE**

Handling	Normal precautions should be observed as for handling all chemicals Avoid generation of mist Atmospheric levels should be controlled in compliance with the occupational exposure limit.
Storage	Store in the original closed containers under dry conditions. This material is hygroscopic.

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#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**VYCERIN™ GL99 Glycerine**  
Material Safety Data Sheet  
Date(s): 2010-10-08  
Version: 7  
MSDS#: 807926



**Exposure limits**

**OSHA PEL**  
Component Name  
Glycerin

Exposure limits	Notes
15 mg/m3 TWA (total); 5 mg/m3 TWA (respirable fraction)	

**ACGIH TLV**  
Component Name  
Glycerin mist

Exposure limits	Notes
10 mg/m3 TWA	

**Engineering controls**  
**Eye protection**  
**Protective clothing**

Provide adequate ventilation.  
Safety glasses with side shields.  
Impervious gloves.  
PVC is recommended.

**Respiratory protection**

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.  
A suitable mask with filter type A may be appropriate.

**Other**

Eyewash and safety shower easily accessible to the work area.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color</b>	colorless
<b>Form</b>	Liquid
<b>Odor</b>	characteristic odor
<b>pH</b>	~ 7
<b>Boiling Point (°F)</b>	554 (1 atmospheric pressure)
<b>Boiling Point (°C)</b>	290 (1 atmospheric pressure)
<b>Flash Point (°F)</b>	351(open cup)
<b>Flash Point (°C)</b>	177(open cup)
<b>Autoignition Temperature (°F)</b>	752
<b>Autoignition Temperature (°C)</b>	400
<b>Flammable Limits</b>	Not applicable.
<b>Explosive Properties</b>	Not to be expected
<b>Oxidizing Properties</b>	Not to be expected

VYCERIN™ GL99 Glycerine  
Material Safety Data Sheet  
Date(s): 2010-10-08  
Version: 7  
MSDS#: 807926



Solubility (water)  
Solubility (other)

Miscible  
Miscible with ethanol, Slightly soluble in acetone,  
Insoluble in ether and in chloroform

Partition Coefficient  
Dynamic viscosity (mPa.s)  
Density (g/ml)  
Freezing/melting point (°F)  
Freezing/melting point (°C)

-2.6calculated  
1300 @ 20 °C  
1.263@ 20 °C  
64Solidifies at a much lower temperature  
18Solidifies at a much lower temperature

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#### 10. STABILITY AND REACTIVITY

Stability  
Materials to avoid  
Conditions to avoid  
Hazardous decomposition products  
Hazardous polymerization

Stable under normal conditions.  
Strong oxidizing agents.  
None known.  
During burning poisonous acrolein may be formed  
Will not occur.

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#### 11. TOXICOLOGICAL INFORMATION

##### Eye contact

Rabbit	Draize	Nonirritating.
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##### Skin contact

Rabbit	Draize	24HR	Nonirritating.
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##### Dermal toxicity

LC50 Rabbit > _ 18700mg/kg	Practically nontoxic.
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##### Ingestion

LD50 rat > _ 25000mg/kg LD50 Mouse > _ 4000mg/kg	Relatively harmless.
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##### Chronic

An inhalation study in animals has shown that repeated exposures produce

**VYCERIN™ GL99 Glycerine**  
Material Safety Data Sheet  
Date(s): 2010-10-08  
Version: 7  
MSDS#: 807926



**Carcinogenity**

no significant effects  
Studies in animals have shown that repeated doses do not produce carcinogenic effects. This material is not listed as a carcinogen by OSHA, IARC, and NTP.

**Reproductive toxicity/  
teratogenicity**

A multigeneration study in rats has shown that repeated high doses produce no adverse reproductive effects. A study in animals has shown that repeated doses produce no teratogenic effects.

**Mutagenicity**

The substance is not considered to be genotoxic.

**Toxicologically synergistic products**

None known.

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**12. ECOLOGICAL INFORMATION**

**Persistence & Degradation**

Biological Oxygen Demand (BOD 5 DAY/COD)  
86%

**Toxicity**

Low toxicity to aquatic organisms.  
LC50 (96 hour) fish > 5000mg/l  
EC50 (24 hour) Daphnia magna > 10000mg/l  
EC50 (16 hour) Pseudomonas putida > 10000mg/l

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**13. DISPOSAL CONSIDERATIONS**

**RCRA (Resource Conservation and Recovery Act) Classification:**

Specifically Listed Wastes Not applicable.

**Characteristic Wastes**

Ignitability  
Corrosivity  
Reactivity  
Toxicity

Not applicable.  
Not applicable.  
Not applicable.  
Not applicable.

**Disposal method**

Disposal should be in accordance with local, state or national legislation.

**Container disposal**

Empty container retains product residue.

**VYCERIN™ GL99 Glycerine**  
Material Safety Data Sheet  
Date(s): 2010-10-08  
Version: 7  
MSDS#: 807926



Observe all hazard precautions.  
Puncture or otherwise destroy empty container  
before disposal.

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**14. TRANSPORT INFORMATION**

**Department of Transportation:**  
Not regulated.

**TDG (Transportation of Dangerous Goods):**  
Not regulated.

Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA-DGR.

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**15. REGULATORY INFORMATION**

**Inventory Status**

<b>EU (EINECS/ELINCS/NLP)</b>	Compliant.
<b>USA (TSCA)</b>	Compliant.
<b>Canada (DSL)</b>	Compliant.
<b>Australia (AICS)</b>	Compliant.
<b>Japan (ENCS)</b>	Compliant.
<b>China (IECSC)</b>	Compliant.
<b>Korea (ECL)</b>	Compliant.
<b>Philippines (PICCS)</b>	Compliant.

**OSHA Hazard Communication Standard,  
29 CFR 1910.1200, Hazard Summary:**

<b>Health Hazards</b>	Inhalation (TLV)
<b>Physical Hazards</b>	None

**WHMIS Classification** Noncontrolled (Nonhazardous).

**CERCLA and SARA Regulations (40 CFR  
355, 370, and 372):**

<b>This material contains the following chemicals subject to the reporting requirements of SARA 313:</b>	No 313-listed chemicals in this product
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Material Safety Data Sheet  
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**SARA 311/312 Hazard Categories:**

Immediate	Y
Delayed	N
Fire	N
Pressure	N
Reactivity	N

**State Regulations:**

**Pennsylvania State Chemicals Regulated** 1,2,3-Propanetriol  
as Hazardous

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**16. OTHER INFORMATION**

We assigned NFPA ratings and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

**HMIS Information**

Health	0
Flammability	1
Physical Hazards	0

The HMIS ratings displayed above are from the HMIS III Third Edition. There have been significant changes made to the system. "Physical hazard" stands for physical hazard as defined in the OSHA Hazard Communication Standard and replaces the former code for reactivity. For a more detailed explanation of the system and the ratings, please contact our Product Safety and Regulatory Affairs group.

**NFPA Information**

Health	0
Flammability	1
Instability	0

This information is intended solely for the use of individuals trained in the particular hazard rating system.

The following sections contain revisions or new statements:

Page header, Product number, Legal Entity name, and parts of section 1 and 11.