

VYCERIN™ GL99 Glycerine

Material Safety Data Sheet

Date(s): 2010-10-08

Version: 7

MSDS#: 807926



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name VYCERIN™ GL99 Glycerine
Product Use Commercial product
Address/Telephone number 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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	% (w/w)	OSHA PEL	ACGIH TLV
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.

3. HAZARDS IDENTIFICATION

Emergency Overview

Color colorless
Form Liquid
Odor 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.

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Eye contact	No irritation is likely to develop following contact with human eyes.
Skin contact	No irritation is likely to develop following contact with human skin. No toxic effects are expected if absorbed through the skin.
Inhalation	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.
Ingestion	This material is not likely to cause irritation upon ingestion. No toxic effects are expected following ingestion of this product.
Other	Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

4. FIRST AID MEASURES

Eye contact	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.
Skin contact	Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention.
Inhalation	Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.
Ingestion	DO NOT INDUCE VOMITING. 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.

5. FIRE-FIGHTING MEASURES

Flash Point (°F) 351(open cup)

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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.

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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Exposure limits****OSHA PEL****Component Name**

Glycerin

Exposure limits15 mg/m³ TWA (total); 5 mg/m³ TWA (respirable fraction)**Notes****ACGIH TLV****Component Name**

Glycerin mist

Exposure limits10 mg/m³ TWA**Notes****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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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Solubility (water)

Miscible

Solubility (other)

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

Partition Coefficient

-2.6calculated

Dynamic viscosity (mPa.s)

1300 @ 20 °C

Density (g/ml)

1.263@ 20 °C

Freezing/melting point (°F)

64Solidifies at a much lower temperature

Freezing/melting point (°C)

18Solidifies at a much lower temperature

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Materials to avoid

Strong oxidizing agents.

Conditions to avoid

None known.

Hazardous decomposition products

During burning poisonous acrolein may be formed

Hazardous polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Eye contact

Rabbit Draize Nonirritating.

Skin contact

Rabbit Draize 24HR Nonirritating.

Dermal toxicity

LC50 Rabbit >_ 18700mg/kg Practically nontoxic.

Ingestion

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

Chronic

An inhalation study in animals has shown that repeated exposures produce

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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.

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

13. DISPOSAL CONSIDERATIONS

RCRA (Resource Conservation and Recovery Act) Classification:

Specifically Listed Wastes Not applicable.

Characteristic Wastes	Ignitability	Not applicable.
	Corrosivity	Not applicable.
	Reactivity	Not applicable.
	Toxicity	Not applicable.

Disposal method

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

Container disposal

Empty container retains product residue.

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

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.

15. REGULATORY INFORMATION

Inventory Status

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

**OSHA Hazard Communication Standard,
29 CFR 1910.1200, Hazard Summary:**
Health Hazards
Physical Hazards

Inhalation (TLV)
None

WHMIS Classification

Noncontrolled (Nonhazardous).

**CERCLA and SARA Regulations (40 CFR
355, 370, and 372):**
**This material contains the following
chemicals subject to the reporting
requirements of SARA 313:**

No 313-listed
chemicals in this
product

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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

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.