

Issuing Date 27-Feb-2014

Revision Date 27-Feb-2014

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name VYCERIN™ GL99 Glycerine

Other means of identification

Product Code GL99

Synonyms 1,2,3-propanetriol

Recommended use of the chemical and restrictions on use

Recommended Use Multi-purpose fluid.

Uses advised against None

Details of the supplier of the safety data sheet

Manufacturer Address

Vantage Oleochemicals
South Racine Avenue, IL 60609 USA

Emergency Telephone Number

Company Phone Number +1-773-376-9000

Emergency Telephone Number Chemtrec US 1-800-424-9300 CHEMTREC International +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard.

This is not a dangerous substance or mixture according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Label Elements

EMERGENCY OVERVIEW

Not Hazardous

Appearance Clear

Physical State Liquid

Odor Odorless

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms 1,2,3-propanetriol.

Chemical Name	CAS-No.	Weight %
Glycerin	56-81-5	99.5

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if irritation occurs.

Skin contact Wash exposed skin with soap and plenty of water. Consult a physician if irritation occurs.

Inhalation Remove to fresh air and keep at rest in a position comfortable for breathing. Consult a physician if breathing is difficult or other respiratory symptoms develop.

Ingestion DO NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms and effects, both acute and delayed

Symptoms None identified.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None identified.

Specific hazards arising from the chemical None identified.

Hazardous combustion products Acrolein may be formed if product is burned or strongly heated, especially in acidic conditions.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment.

Environmental precautions

Environmental precautions Prevent release to surface water.

Methods and material for containment and cleaning up

Methods for Cleaning Up Absorb with an inert material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid generation of mist/aerosol.

Conditions for safe storage, including any incompatibilities

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

Packaging Material Store tightly closed in original container. Prevent exposure to high humidity, material is hygroscopic.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerin 56-81-5	n/a	TWA: 15 mg/m ³ (total) TWA: 5 mg/m ³ (respirable fraction)	n/a

Appropriate engineering controls

Engineering Measures Provide showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side-shields.

Skin and Body Protection Impervious gloves.

Respiratory Protection Use NIOSH/MSHA approved respirator if exposure limit is exceeded.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Odorless
Appearance	Clear		
Color	Colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7	Neat
Melting point/freezing point	18 °C / 64 °F	Solidifies at much lower temperature
Boiling point/boiling range	290 °C / 554 °F	atmospheric pressure
Flash Point	177 °C / 351 °F	Open cup
Evaporation Rate		
Flammability (solid, gas)	May burn if exposed to open flames	-
Flammability Limits in Air		
Upper flammability limits	Not determined	
Lower flammability limit	Not determined	
Vapor pressure	0.000106	- hPa at (20 °C)

Vapor Density		Not determined
Specific Gravity	1.26	@ 20°C
Water Solubility	miscible	
Solubility in other solvents		
Partition coefficient	-2.6	calculated
Autoignition Temperature	400 °C / 752 °F	
Decomposition temperature		Not determined
Kinematic viscosity		Not determined
Dynamic viscosity	1300 mPa s	@ 20 °C
Explosive Properties	None	
Oxidizing Properties	None	

Other Information

10. STABILITY AND REACTIVITY

Reactivity
Not reactive

Chemical stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
None known.

Incompatible materials
Strong oxidizing agents.

Hazardous Decomposition Products
Acrolein may be formed if product is burned or strongly heated, especially in acidic conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	This substance does not present an acute toxicity hazard based on published data.
Inhalation	Inhalation of aerosol or mist may cause irritation of the respiratory tract.
Eye contact	Not irritating to eyes.
Skin contact	Not irritating to skin.
Ingestion	Ingestion may cause stomach discomfort.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerin 56-81-5	> 4,000 mg/kg (Mouse), >25,000 mg/kg (rat)	> 18,700 mg/kg (Rabbit)	> 570 mg/m ³ (Rat) 1 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Not irritating to skin.
Serious eye damage/eye irritation	Not irritating to eyes.
Sensitization	Not a skin sensitizer.

Mutagenic Effects	Not classified as a mutagen by IARC.
Carcinogenicity	This material is not classified as a carcinogen, mutagen, or reproductive toxin by IARC, OSHA, ACGIH, or NTP.
Reproductive Toxicity	Not classified as a reproductive toxin.
Developmental Toxicity	Not classified as a developmental toxin.
Teratogenic	Not classified as a teratogen.
STOT - single exposure	No known effects under normal use conditions.
STOT - repeated exposure	No known hazard.
Aspiration hazard	No known hazard.
Numerical measures of toxicity-Product Information	Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Glycerin 56-81-5		LC50 (96 hr) >5 g/l fish	Pseudomonas putida (16 hr) >10 g/l	EC50 >10,000 mg/l 24 h Daphnia magna

Persistence and degradability

Readily biodegradable.

Bioaccumulation/Accumulation

Not expected to be bioaccumulative.

Mobility

Will likely be mobile in the environment due to its water solubility.

Chemical Name	Log Pow
Glycerin 56-81-5	= -1.76

Other Adverse Effects

None identified

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method

Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT

Not regulated

ICAO

Not regulated

IATA

Not regulated

IMDG / IMO

Not regulated

Special Provisions

-

RID	Not regulated
ADR	Not regulated
Special Provisions	-

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Glycerin 56-81-5	X	X	X

16. OTHER INFORMATION

NFPA	Health Hazard 0	Flammability 1	Instability 0	Physical and Chemical Hazards n/a
HMIS	Health Hazard 0	Flammability 1	Physical hazards 0	Personal Precautions B

Prepared by Product Steward
Issuing Date 27-Feb-2014
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Revision Note

Update to GHS format, replaces September 15, 2011.

Disclaimer

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End of MSDS