

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

Product identifier**Product Name** VYCERIN™ GL93 Glycerine Kosher, USP**Other means of identification****Product Code** GL93**Synonyms** 1,2,3-propanetriol**Recommended use of the chemical and restrictions on use****Recommended Use** Multi-purpose fluid.**Uses advised against** None identified**Details of the supplier of the safety data sheet****Manufacturer Address** Vantage Oleochemicals, Inc.
4650 South Racine Avenue
Chicago, IL 60609 USA
+1-773-376-9000**Emergency Telephone Number****Company Phone Number** +1-773-376-9000**Emergency Telephone Number** CHEMTREC International +1-703-527-3887

CHEMTREC USA: 1-800-424-9300

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 Labeling of Chemicals (GHS)

Label Elements**EMERGENCY OVERVIEW****Color** Colorless**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.

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

<u>Suitable extinguishing media</u>	Use extinguishing measures appropriate to local circumstances and surrounding materials.
Unsuitable extinguishing media	None identified.
<u>Specific hazards arising from the chemical</u>	None identified.
Hazardous combustion products	Acrolein may be formed if product is burned or strongly heated, especially in acidic conditions.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
<u>Protective equipment and precautions for firefighters</u>	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 Containment Dike to collect large liquid spills.

Methods for Cleaning Up Absorb with inert material and transfer to containers for disposal.

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 containers tightly closed in a dry, cool 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 Showers
Eyewash stations
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		
Property	Values	Remarks • Method	
pH	7	Neat	
Melting point/freezing point	18 °C / 64 °F		
Boiling point/boiling range	290 °C / 554 °F		
Flash Point	177 °C / 351 °F		
Evaporation Rate		Not determined	
Flammability (solid, gas)		May burn if exposed to open flame.	
Flammability Limits in Air		Not determined	
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		Not determined	
Partition coefficient	-2.6	Calculated	
Autoignition Temperature	400 °C / 752 °F		
Decomposition temperature			
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
Remarks

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Hazardous Reactions None under normal processing.
Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid Extremes of temperature and direct sunlight

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

Inhalation Inhalation of aerosol or mist may cause irritation of the respiratory tract.

Eye contact May cause slight irritation.

Skin contact Prolonged or repeated contact may dry skin and cause irritation.

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 Caused mild irritation in animal studies.
Serious eye damage/eye irritation Caused temporary (<24h) eye irritation in animal studies.
Sensitization Not a skin sensitizer.
Mutagenic Effects Not classified as a mutagen by IARC.
Carcinogenicity This substance is not classified as a carcinogen by IARC, OSHA, ACGIH, or NTP.

Reproductive Toxicity Reproductive effects are unknown.

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Glycerin 56-81-5		LC50 51 - 57 mL/L Oncorhynchus mykiss 96 h	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 applicable regulations.

Contaminated Packaging

Dispose of in accordance with applicable regulations.

14. TRANSPORT INFORMATION

DOT

Not regulated

**TDG
MEX**

Not regulated
Not regulated

IATA

Not regulated

IMDG / IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS	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

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 Revision Note
 Reason for Revision Update to GHS format

Disclaimer

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End of MSDS