

Safety Data Sheet

Issuing Date 28-Apr-2015 Revision Date 20-Feb-2015 Revision Number 2

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

Product identifier

Product Name VYCERIN™ GL88 99.5% USP Glycerine

Other means of identification

Product Code GL88

Synonyms 1,2,3-propanetriol

Recommended use of the chemical and restrictions on use Recommended Use Multi-purpose fluid.

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 US 1-800-424-9300 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 to white 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

VYCERIN™ GL88 99.5% USP Glycerine

Ingestion

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.

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

<u>Suitable extinguishing media</u>

Use extinguishing measures appropriate to local circumstances

and surrounding materials.

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 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/m³ (total) TWA: 5 mg/m³ (respirable	n/a
		fraction)	

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.

<u>Hygiene Measures</u> 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 Appearance Clear

AppearanceClearOdorOdorless

Color Colorless to white

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 7 Nea

Melting point/freezing point18 °C / 64 °FSolidifies at much lower temperatureBoiling point/boiling range290 °C / 554 °FAtmospheric Pressure (760 mm Hg)

Flash Point 177 °C / 351 °F Open cup
Evaporation Rate No data available

Flammability (solid, gas) May burn if exposed to open flames

Flammability Limits in Air

Upper flammability limits Not determined Lower Flammability Limit Not determined

Lower Flammability Limit
Vapor pressure
Vapor Density

Not determined
0.000106
hPa at (20 °C)
Not determined

Specific Gravity 1.26 Water Solubility Miscible

Solubility in other solvents

Partition coefficient -2.6 Calculated

Autoignition Temperature 400 °C / 752 °F

Decomposition temperature Not determined

Kinematic viscosity

Dynamic viscosity

1300 mPa s

Not determined
@ 20 °C

Explosive Properties None **Oxidizing Properties** None

Other Information

@ 20°C

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.

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 The ingredients of this product do 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	> 4,000 mg/kg (Mouse), >25,000	> 18,700 mg/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h
56-81-5	mg/kg (rat)		· ·

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
Serious eye damage/eye irritation
Sensitization
Mutagenic Effects

Not irritating to skin.
Not irritating to eyes.
Not a skin sensitizer.
No known hazard.

Carcinogenicity This substance is not classified as a carcinogen by IARC, OSHA, ACGIH, or NTP.

Reproductive Toxicity No known hazard.

Developmental ToxicityNo known hazard.TeratogenicNo known hazard.STOT - single exposureNo known hazard.

STOT - repeated exposure No known hazard. No known hazard.

Numerical measures of toxicity-Product Information

Not determined

12. ECOLOGICAL INFORMATION

Ē	Ecotoxicity				
	Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Γ	Glycerin		LC50 51 - 57 mL/L	Pseudomonas putida (16 hr)	EC50 >10,000 mg/l 24 h
	56-81-5		Oncorhynchus mykiss 96 h	>10 g/l	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	= -1.76
56-81-5	

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

<u>IATA</u> Not regulated

IMDG / IMO Not regulated

15. REGULATORY INFORMATION			
International Inventories			
TSCA	Complies		
DSL	Complies		

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

<u>Legend</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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	X	X	X		
56-81-5					
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

Issuing Date28-Apr-2015Revision Date20-Feb-2015Revision Note

Reason for Revision Update to company logo

Disclaimer

The information in this safety data sheet (SDS) is believed to be accurate and is given in good faith but no representation or warranty as to its completeness or accuracy is made. Suggestions for uses or applications are only opinions. Users are responsible for determining the suitability of these products for their own particular purpose. No representation or warranty, express or implied, is made with respect to information or products including without limitation warranties of merchantability or fitness for a particular purpose or non-infringement of any third party patent or other intellectual property rights including without limit copyright, trademark and designs. Any trademarks identified herein are trademarks of Vantage Oleochemicals, Inc.

End of MSDS