

Document Number: Ingredient Supplier | SDS | Vegetable Glycerin Revision '1/12.08.2022

Section 1. Identification

PRODUCT IDENTIFIER

Substance Name: Refined Glycerine

Synonym: Glycerine;, 1,2,3-Propanetriol; Glycerol; Glycerin; Glyceryn

RECOMMENDED USE OF THE CHEMICAL

Uses

Used as emulsifier, emollient, plasticizer, humectant, sweetener, anti-freeze, in food products, drug excipient, cosmetics, surface coatings and paints. Used as intermediate for making glycerol derivatives.

SUPPLIER'S DETAILS

Legal Entity: Ingredient Supplier
Address: 13320 Emmett Rd.

Houston, TX 77041

USA

Telephone Number: (832) 795-6898

Email Address of Person info@

Responsible for SDS:

info@ingredientsupplier.com

Official Website: ingredientsupplier.com

EMERGENCY PHONE NUMBER

Emergency Contact Number: Toll-Free Number: 1-800-424-9300

Section 2. Hazard Identification

GHS CLASSIFICATION

CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008

Physical Hazards: Not classified Health Hazards: Not classified Environmental Hazards: Not classified

GHS LABEL ELEMENTS

Signal Words: None
Symbols: None
Hazard Statement: None

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION

None



THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

Section 3. Composition / Information on Ingredients

SUBSTANCES

Molecular Formula $C_3H_8O_3$

Concentration 99% to 100%

EC Name Glycerol Main Constituent

EC Number 200-289-5

CAS Number (EC Inventory) 56-81-5

IUPAC Name Glycerol

MIXTURES

Not relevant as substance is not a mixture.

Section 4. First Aid Measures

DESCRIPTION OF NECESSARY FIRST-AID MEASURES

First Aid Instructions: EYE – Wash out with plenty of water. Remove contact lenses, if present and easy to

do. Get medical attention if any sensations persist.

SKIN – Remove contaminated clothing. Wash skin thoroughly with plenty of water.

Get medical attention if necessary.

INHALATION – Use self-contained breathing equipment if in confined place.

Remove to fresh air. Get medical attention if necessary.

INGESTION – Remove material from mouth. Drink plenty of water. No typical symptoms and effects known. However, if large amount swallowed or symptoms

develop, get medical attention. Do not induce vomiting.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Eye: Direct contact with eyes is likely irritating.

Skin: Not expected under normal conditions of use.

Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions

of normal use.

Ingestion: If a large quantity has been ingested, may cause nausea, vomiting, and diarrhea.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

If medical advice is needed, have product container or label at hand.



Section 5. Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Water fog,

water spray, foam, dry powder, carbon dioxide (CO2) and alcohol

resistant foam.

Unsuitable Extinguishing Media: None known. However, avoid using water jet as that may cause the

fire to spread.

SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Fire Hazard – Not flammable.

Explosion Hazard – Not explosive.

Reactivity – Stable at ambient temperature and under normal conditions of use.

SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS

Specific hazards – Combustion causes toxic fumes

Protection during firefighting – Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus and face mask. Cool containers exposed to flames with water until well after the fire is out.

Section 6. Accidental Release and Clean-Up Procedures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions, Protective Use appropriate personal protection equipment (PPE).

Equipment and Emergency Procedures Evacuate unnecessary personnel.

Equip clean-up crew with proper protection.

ENVIRONMENTAL PRECAUTIONS

Prevent runoff from entering drains, sewers, or streams. Avoid discharge onto the ground.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Method For Spill Containment Stop the flow of material, if this is without risk. Dike the spilled

material, where this is possible.

Method for Spill Clean-Up Large Spills – Dike far ahead of spill for later disposal. Use a non-

combustible material like vermiculite, sand or earth to soak up the

product and place into a container for later disposal.

Small Spills – Wipe up with absorbent material (e.g. cloth, fleece).

Clean surface thoroughly to remove residual contamination.

Following product recovery, flush area with water. Never return spills in original containers for re-use.

REFERENCE TO OTHER SECTIONS

Please refer to section 8 on information for exposure controls / personal protection, and section 13 for disposal considerations.



Section 7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

Recommendations for Safe Handle in accordance with good industrial hygiene and safety procedures.

Handling:

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Safe Storage Conditions: Store in a cool, dry place in the original container. Incompatible Products: Strong acids, strong bases and strong oxidizers.

Packaging Materials: Store in packaging that are food grade.

Section 8. Exposure Controls / Personal Protection

CONTROL PARAMETERS

Glycerol (56-81-5)

ParametersValueFormUSA – OSHA PEL (TWA)5 mg/m³Mist

Appropriate Engineering

Controls

Adequate ventilation should be provided so that exposure limits are not

exceeded.

Personal Protective Eye – Safety glasses or chemical goggles.

Equipment Skin – Wear suitable protective clothing. Wear chemical resistant

protective gloves.

Inhalation – No personal respiratory protective equipment normally required. In case of risk of inhalation of vapours, use suitable respiratory

equipment with combination filter (type A2/P2).

General – Practice good industrial hygiene and safety. Keep away from

food and drink.

Section 9. Physical and Chemical Properties

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear viscous liquid

Odour: Not available
Odour Threshold: Not available
pH: Not available

Melting Point: 18°C solidifies at a much lower temperature due to supercooling

property

Freezing Point: Not available

Boiling Point: 290°C

Flash Point: 198.9°C (PMCC)



Evaporation Rate: Not available

Flammability (solid, gas):

Upper/Lower Flammability or Not available

Explosive Limits:

Vapour Pressure: <0.01 mmHg @ 50°C

Vapour Density: Not available Specific Gravity (H20=1): Approx. 1.26

Solubility(ies): Soluble Partition Coefficient: N-Octanol/Water: -1.8

Auto-Ignition Temperature: Approx 400°C

Decomposition Temperature: Not available

Viscosity: 1410mPa.s at 20°C

Explosive Properties: Not determined

OTHER INFORMATION

Other Information on Physical and

Chemical Parameters:

None

Section 10. Stability and Reactivity Data

Reactivity: Stable at ambient temperature and under normal conditions of

use.

Chemical Stability: Product is stable.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Avoid temperatures exceeding 200°C as decomposition may

occur.

Incompatible Materials: Contact of glycerine with strong oxidizing agents such as nitric

acid or other strong acids, chromium trioxide, potassium chlorate,

or potassium permanganate may cause explosion.

Hazardous Decomposition Products: Dangerous Decomposition Product - Acrolein (>280°C)

Section 11. Toxicological Information

INFORMATION ON TOXICOLOGICAL (HEALTH) EFFECTS

Hazard Class Result Criteria

Oral LD50 >20000 mg/kg (rat) OECD GHS

Acute Toxicity Inhalation L(Ct)50 4655 mg/min/litre (rat) OECD GHS

Dermal LD50 45 ml/kg (quinea pig) OECD GHS

INFORMATION ON LIKELY ROUTES OF EXPOSURE



Ingestion:Not classifiedInhalation:Not classifiedSkin Contact:Not classifiedEye Contact:Not classified

SENSITIZATION

Respiratory Sensitization: Not classified Skin Sensitization: Not classified

ASPIRATION TOXICITY

Aspiration Hazard: No data available Nil

MUTAGENICITY

Mutagenicity Not Classified

Ames Test: Result: Negative in vitro, OECD 471

Germ Cell Species: Salmonella Typhimirium

Mutagenicity: (Salmonella enterica)

Chromosome Result: No effects in vitro - Chinese Hamster Ovary,

Aberration: OECD 473

CARCINOGENICITY

Carcinogenicity: Not classified. Not considered a

carcinogen by IARC, ACGIH, NTP

and OSHA.

Result: No effects Oral: feed

Species: Rat

Test Duration: 2 years

REPRODUCTIVE & DEVELOPMENT TOXICITY

Reproductive Effects: Not Classified

Fertility Effects: Result: No effects 2000 mg/kg bw/day; Oral: feed, 2

Species: Rat generation study

TERATOGENICITY

Teratogenicity: Not Classified

Developmental Effects: Result: No effects 1310 mg/kg bw/day Oral: feed,

Species: Rat NOAEL. Study followed intent of

OECD 414

SERIOUS EYE DAMAGE/EYE IRRITATION

Serious Eye Damage/Eye Irritation: Not Classified

Irritation Corrosion - Eye: Result: No effects Species: Rabbit 0.1 ml in vivo

Test Duration: 7 days

SPECIFIC TARGET ORGAN TOXICITY



STOT - Single Exposure: Not Classified (Single/Repeated

Exposure)

Result: No effects. 167 mg/m3 Inhalation, NOAEL. Species: Rat Study followed intent of OECD

Test Duration: 13 weeks 413

Result: No effects. 5040 mg/kg bw/day Dermal,

Species: Rabbit NOEL

Test Duration: 45 weeks

Result: No effects. 8000 - 10000 mg/kg bw/day Species: Rat Oral, NOAEL. Study followed

Test Duration: 2 years intent of OECD 452

OTHER INFORMATION ON ADVERSE HEALTH EFFECTS

See section 2 for effects of the substance

Section 12. Ecological Information

TOXICITY

Fish (Oncorhynchus mykiss) $LC_{50}>54000 \text{ mg/l}$, 96 hours Crustacea (Daphnia magna) $EC_{50}>10000 \text{ mg/l}$, 24 hours Algae (Scenedesmus quadricauda) $EC_{3}>10000 \text{ mg/l}$, 8 days

Aquatic And Terrestrial Organisms Ecotoxicity van abactaria (Microsystia

Cyanobacteria (Microcystis

 $EC_3 > 2900 \text{ mg/l}, 8 \text{ days}$

Other aquatic/terrestrial

toxicological end points

No information

PERSISTENCE AND DEGRADABILITY

Conclusion Supporting Information

Readily biodegradable (OECD 301) Percent degradation (Aerobic biodegradation-ready)

Result: Readily biodegradable

Species: Activated sludge, industrial

Test Duration: 24 hours

BIOACCUMULATIVE POTENTIAL

Low bioaccumulation potential, Octanol/water partition coefficient log Kow = -1.75. accumulation in organisms is not

expected

MOBILITY IN SOIL

Low potential for sorption to soil. Henry's law

Glycerine will partition primarily to Calculation result: 0.00000006 atm m³/mol@25°C

water.



RESULTS OF PBT AND VPVB ASSESSMENT

The substance is not PBT / vPvB

Persistence: The substance is demonstrated to be readily biodegradable, thus meeting screening criterion for "not P and not vP"

Bioaccumulation: The substance has measured log Kow of -1.75, which is well below the screening criterion of log Kow </=4.5 for "not B and not vB"

Toxicity: The available acute aquatic E/LC50 values are well above the screening criterion of E/LC50 < 0.1 mg/L for "T". The substance is not classified for CMR or other organ-specific chronic health effects.

OTHER ADVERSE EFFECTS

Avoid release to the environment

Section 13. Disposal Consideration

DISPOSAL METHODS

Disposal is to be performed in compliance with all federal, state/provincial and local regulations. Do not dispose of via sinks, drains or into immediate environment.

Section 14. Transportation Information

Land transport - International Carriage by Not regulated as dangerous goods.

Rail (RID) and by Road (ARD):

Inland waterway transport (AND(R)): Not regulated as dangerous goods. Marine transport - International Maritime Not regulated as dangerous goods.

Dangerous Goods Code (IMDG):

Air transport - International Civil Aviation Not regulated as dangerous goods.

Organization (ICAO) International Air

Transport Association (IATA):

United States Department of Not regulated as dangerous goods.

Transportation (US DOT):

International Maritime Organization (IMO): International Bulk Chemical (IBC) Code Name: Glycerine

Section 15. Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION

OSHA (Occupational Safety and Health Administration)

This product is not hazardous under the criteria of the Federal OSHA Hazard

Standard 29 CFR 1910.1200.

status:

CERCLA (Comprehensive

No chemicals in this material with known CAS numbers are subject to the

Response compensation, and reporting requirements of CERCLA.

Liability Act):



SARA Title III (Superfund

Section 302 Extremely Hazardous Substances: No.

Amendments and

Section 311/312 Hazardous Chemical: No.

Reauthorization Act):

California Proposition 65: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

INVENTORY STATUS

Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AIIC)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	l Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
South Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
Switzerland	Switzerland FOPH	No

Section 16. Other Information

Further Information: HMIS® is a registered trade and service mark of the NPCA.

Substance meets the criteria of Paragraph 9 of Annex V of the REACH EC Regulation No. 987/2008 and is therefore exempted from the obligation to

register under REACH.

HMIS® Ratings: Health: 1

Flammability: 1 Physical hazard: 0



NFPA Ratings: Health: 1

Flammability: 1

Reactivity: 0

Key Abbreviations: SDS: Safety Data Sheet

PBT: Substance with Persistent, Bioaccumulative and Toxic properties vPvB:

Substance with very Persistent and very Bioaccumulative properties

Mixture Classification Information

Not relevant

List of Relevant R Phrases, Hazard Statements, Safety Phrases and/or Precautionary Statements

Not relevant

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Prepared by: Ingredient Supplier

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For INGREDIENT SUPPLIER

(AUTHORIZED SIGNATORY)

Chris Hill