

SAFETY DATA SHEET

1. Identification:

Product Identifier: Vegetable Glycerin USP

Product code: BG8165

Synonym(s): 1,2,3-Propanetriol; Glycerin; Glycerine

Recommended use: For excipient use only

Recommended None known.

restrictions:

Manufacturer/Supplier/Distributor Information

Company name: Biopharm Inc.

Address: 187 South Tilley Road

Hatfield, AR 71945

Telephone: (870) 389-6114

Website: www.bphchem.com

E-mail: support@bphchem.com

Chemtrec 800-424-9300

number:

2. Hazard(s) identification:

Classification: Not Classified.

Label elements: Not Applicable.

Signal word: None

Hazard statement: This produce is not considered hazardous as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200. May cause temporary irritation with eye or skin contact. May cause temporary irritation of upper respiratory tract if inhaled.

Repeated or prolonged exposure at high dosage my be harmful to kidneys.

Precautionary statement:

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Storage Store away from incompatible materials. Store in a well-ventilated place. Keep

container tightly closed. Store locked up. Store in accordance with

local/regional/national/international regulations.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise classified (HNOC):

None known

Supplemental

None.

information:

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u> <u>CAS number</u> <u>%</u>

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Glycerin 56-8105 99.7

4. First-aid measures

Inhalation: When symptoms occur: go into open air and ventilate suspected area.

Ingestion: Rinse mouth. Do NOT induce vomiting.

Skin contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. **Eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Most important

symptoms/effects, acute

and delayed:

Direct contact with eyes may cause temporary irritation. If a large quantity has been

ingested: May cause nausea, vomiting, and diarrhea.

General information: Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing

media:

Use extinguishing media appropriate for surrounding fire. Water spray or fog chemical

powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable

extinguishing media:

Specific hazards arising

from the chemical

Not flammable. Product is not explosive. Stable at ambient temperature and under

normal conditions of use.

Special protective equipment and precautions for

Self-contained breathing apparatus and full protective clothing must be worn in case of

fire.

None known.

firefighters Fire-fighting

equipment/instructions

Move conatiners from fire area if you can do so without risk.

Specific Method Exercise caution when fighting any chemical fire.

6. Accidental release measures

Personal precautions, protective equipment,

Handle in accordance with good industrial hygiene and safety practice.

Use appropriate personal protection equipment (PPE).

and emergency procedures:

Evacuate unnecessary personnel.

Equip cleanup crew with proper protection.

Ventilate area.

Methods and materials for containment and cleaning up:

For contaminate: Absorb and/or contain spill with inert material, then place in suitable

container.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

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Environmental precautions:

Prevent entry to sewers and public waters.

7. Handling and storage

Precautions for safe

handling:

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product.

Conditions for safe storage, including any

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container

closed when not in use.

incompatibilities:

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

8. Exposure controls/personal protection

Personal protective equipment:

Eye/face protection: Wear protective eyeglasses or chemical safety goggles

Skin and body Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by

protection: the glove supplier.

Wear suitable protective clothing.

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the

material and before eating, drinking, and/or smoking. Routinely wash work clothing

and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance: Liquid. Colorless. Viscous.

Odor: Characteristic.
Odor threshold: No data available.

Vapor Pressure <0.01 hPa

Vapor density (Air = 1):

pH:

No data available.

No data available

18°C (64.4°F)

Solubility in Water:

Fully miscible.

Boiling Point (°F): 290°C (554°F) (decomposition)

Flash point: 177°C (350.6°F) Cleveland Open Cup

Evaporative Rate $(H_2O = 1)$: No data available. Flammability (solid, gas): No data available.

Upper/lower flammability or explosive limits

Flammability limit - lower No data available
Flammability limit - upper No data available
Explosive limit - lower No data available
Explosive limit - upper No data available

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Partition coefficient: n-

octanol/water

Not Available

Auto-ignition temperature: 400°C (752°F)

Decomposition temperature: No data available

Viscosity: 1300 mPas @ 20°C

Other information:

Log Kow-1.76Specific Gravity 1.26 g/cm^3 VOC content $\leq 0.5\%$

10. Stability and reactivity

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

Chemical stability: Product is stable.

Possibility of hazardous

reactions:

Hazardous polymerization will occur.

Conditions to avoid: Direct sunlight. Extremely high and low temperatures.

Incompatible materials: Strong Acids. Strong Bases. Stong Oxidizers.

Hazardous decomposition

products:

Under fire conditions this material may produce hazardous carbon dioxide (CO2), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

11. Toxicological information

Information on likely routes of exposure:

Ingestion:Not classified.Inhalation:Not classified.Skin Contact:Not classified.Eye Contact:Not classified.

Symptoms related to the physical, chemical and toxicological

and toxicological characteristics

Direct contact with eyes may cause temporary ittiration. If a large quantity has been

ingested: May cause nausea, vomiting, and diarrhea.

Information on toxicological effects

Acute toxicity

<u>Component</u> <u>Species</u> <u>Results</u>

Glycerin (CAS 56-81-5)

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>10 g/kg LD50 Dermal Rabbit

LC50 Inhalation Rat >570 mg/m³ (Exposure time: 1h)

ATE (Oral) 12600.000 mg/kg

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

Skin corrosion/

None under normal conditions.

irritation

Serious eve Direct contact with the eyes is likely irritating.

damage/irritation

Respiratory Not expected to present a significant inhalation hazard under anticipated conditions of

Sensitization normal use. Skin sensitization Not classified. Germ Cell Not classified.

Mutagencity

Carcinogenicity Not classified.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Reproductive

This product is not expected to cause reproductive or developmental effects.

toxicity

STOT – single

Not classified

exposure

STOT – repeated

Not classified

exposure

Aspiration hazard If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia,

pulmonary injury or death.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity: LC50 Fish 1: 51 (51-57) ml/l (Exposure time: 96 h-Species: oncorhynchus mykiss)

EC50 Daphnia 1: >500 mg/l (Exposure timeL 24 h-Species: Daphnia magna)

Persistence and degradability:

The substance is biodegradable. Unlikely to persist.

Bioaccumulation/

Based on the n-octanol/water partition coefficient accumulation in organisms is not

Accumulation: expected.

Mobility in soil: No data available

Other adverse effects: Avoid release to the environment.

13. Disposal considerations

^{*}Estimated for product may be based on additional component data not shown.

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Waste Disposal Dispose of waste material in accordance with all local, regional, national, and

Reccomendations: international regulations.

14. Transport information

DOT: Not regulated as dangerous goods.

15. Regulatory information

U.S. Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substances List (40 CFR 302.4)

Not regulated Not regulated Not regulated Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard – No

Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No

Other Federal regulations

Clean Air Act
Not regulated
Clean Water Act
Not regulated
Not regulated
Not listed

16. Other information, including date of preparation or last revision

Revision date March 3, 2021

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to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or

handling of this product.