



SAFETY DATA SHEET

according to 29CFR1910/1200 and GHS Rev. 3

1. Identification:

Product Identifier: Propylene Glycol USP Kosher
Product code: BP2230
Synonym(s): None
Recommended use: Food / Drug Kosher
Recommended restrictions: None known.

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
Emergency phone number: Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification: None
Label elements: None
Signal word: None

Hazard(s) not otherwise classified (HNOC): None known

Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
Propylene Glycol	57-55-6	95

4. First-aid measures

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion: Rinse mouth. Get medical attention if symptoms occur.
Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact: Rinse with water. Get medical attention if irritation develops and persists.

Most important symptoms/effects, acute and delayed:	Direct contact with eyes may cause temporary irritation.
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:	Powder. Alcohol resistant foam. Carbon Dioxide (CO ₂).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific Method	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:	Keep unnecessary personnel away. For personal protection, see Section 8 of the SDS.
Methods and materials for containment and cleaning up:	<p>Large Spills: Stop the flow of materials, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbant material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see Section 13 of the SDS</p>
Environmental precautions:	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling:	Avoid prolonged exposure. Observe good industrial hygiene practices. This product is not to be used to product fogs or mists in theatrical, musical or other entertainment performances.
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Conditions for safe storage, including any incompatibilities:

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

<u>Component</u>	<u>Type</u>	<u>Value</u>
Propylene Glycol	TWA	10 mg/m ³
Biological limit values:	No biological exposure limits noted for the ingredient(s).	
Appropriate Engineering Controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.	
Personal protective equipment:		
Eye/face protection:	Wear protective eyeglasses or chemical safety goggles	
Skin and body protection:	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by 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
Odor:	Characteristic.
Odor threshold:	Not Available.
Vapor Pressure	< 0.225 mmHg @ 25 °C (77 °F)
Vapor density (Air = 1):	< 2.62 @ 15 - 32 °C (59 - 90 °F) (Air = 1.0)
pH:	7 @ 20 - 25 °C (68 - 77 °F)
Relative density:	1.03 - 1.04 @ 20 - 25 °C (68 - 77 °F) Reference substance: (water = 1)
Melting point/freezing point:	-60 - -20 °C (-76 - -4 °F)
Solubility in Water:	Soluble
Boiling Point (°F):	103 °C (217 °F)
Flash point:	210.2 °F (99.0 °C) Closed Cup
Evaporative Rate (H₂O = 1):	Not available
Flammability (solid, gas):	Not applicable

Upper/lower flammability or explosive limits

Flammability limit - lower	2.4 %(V)
Flammability limit - upper	17.4 %(V)
Explosive limit – lower	No data available
Explosive limit - upper	No data available
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature:	371 - 400 °C
Decomposition temperature:	No data available
Viscosity:	42.1 mm ² /s @ 25 °C (77 °F) < 20 mm ² /s @ 40 °C (104 °F)

10. Stability and reactivity

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials:	Strong Oxidizing Agents.
Hazardous decomposition products:	Carbon Oxides.

11. Toxicological information**Information on likely routes of exposure:**

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	Prolonged inhalation may be harmful.
Skin Contact:	No adverse effects due to skin contact are expected.
Eye Contact:	Direct contact with eyes may cause temporary irritation.

Acute toxicity

<u>Component</u>	<u>LD₅₀</u>	<u>LD₅₀ Dermal</u>
Propylene Glycol	20 g/kg (Rat)	LD50 = 20800 mg/kg (Rabbit)

Skin corrosion/irritation	Prolonged skin contacts may cause temporary irritation.
Serious eye damage/irritation	Direct contact with eyes may cause temporary irritation.
Respiratory Sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ Cell Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
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:	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability:	No data is available on the degradability of this product.
Bioaccumulation/Accumulation:	Partition coefficient n-octanol/water (log Kow) = -0.92
Mobility in soil:	No data available
Other adverse effects:	No other adverse environmental effect (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) is expected from this component.

13. Disposal considerations

Disposal Instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations:	Dispose in accordance with all applicable regulations.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/unused products:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions)
Contaminated Packaging:	Since emptied containers may retain product residue, follow local warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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) Not regulated

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated

CERCLA Hazardous Substances List (40 CFR 302.4) Not regulated

SARA 304 Emergency release notification 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

California Prop 65 Not listed

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

Revision date December 12, 2023

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