

Material Safety Data Sheet

SECTION 1: Product and Supplier Identification

Product Name: Propylene Glycol USP

INCI Name: Propane-1,2-diol; 1,2-Propanediol; Alpha-Propylene Glycol; MPG

CAS Number: 57-55-6

EC Number: 200-338-0

Product Use: Pharmaceutical Excipient, Cosmetic Ingredient, Food Ingredient (where permitted), Personal Care, Industrial Applications

Country of Origin: India

Supplier: Botanic Planet Canada Inc.

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SECTION 2: Hazard Identification

GHS Classification

This product is not classified as hazardous according to the Globally Harmonized System (GHS).

Signal Word

None

Hazard Statements

Not classified as hazardous.

Precautionary Statements

Avoid contact with eyes.

Avoid prolonged or repeated skin contact.

Wash thoroughly after handling.

Keep container tightly closed when not in use.

Use good industrial hygiene practices.

Other Hazards

Spilled product may create slippery surfaces.

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	EC No.	Concentration
Propylene Glycol (USP/EP Grade)	57-55-6	200-338-0	≥99.7%

Impurities: Present only within USP/EP specification limits and are not intentionally added.

SECTION 4: First Aid Measures

Inhalation

Move the affected person to fresh air. Keep at rest. Obtain medical attention if symptoms persist.

Eye Contact

Immediately flush with clean water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if irritation continues.

Skin Contact

Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.

Ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Obtain medical advice if large quantities are swallowed or symptoms occur.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media

Carbon dioxide (CO₂)

Dry chemical

Alcohol-resistant foam

Water fog or spray

Unsuitable Extinguishing Media

Do not use a direct stream of water on burning liquid.

Hazardous Combustion Products

Thermal decomposition may produce:

Carbon monoxide

Carbon dioxide

Aldehydes

Irritating fumes

Protective Equipment

Firefighters should wear self-contained breathing apparatus (SCBA) and full protective clothing.

SECTION 6: Accidental Release Measures

Personal Precautions

Avoid slipping hazards.

Wear suitable protective equipment.

Ensure adequate ventilation.

Environmental Precautions

Prevent product from entering drains, waterways, or soil.

Spill Cleanup

Absorb using:

Sand

Vermiculite

Earth

Other inert absorbent material

Collect into suitable containers for disposal.

Wash spill area after cleanup.

SECTION 7: Handling and Storage

Handling

Follow good manufacturing practices (GMP).

Avoid eye contact.

Avoid prolonged skin contact.

Do not eat, drink, or smoke during handling.

Storage

Store in tightly sealed original containers.

Protect from:

Heat

Moisture

Direct sunlight

Strong oxidizing agents

Recommended Storage Temperature: 15–30°C (59–86°F)

SECTION 8: Exposure Controls / Personal Protection

Engineering Controls

Provide adequate general ventilation.

Respiratory Protection

Not normally required.

Eye Protection

Safety glasses or chemical goggles recommended during industrial handling.

Hand Protection

Chemical-resistant gloves recommended for prolonged exposure.

Skin Protection

Protective work clothing as appropriate.

Hygiene Measures

Wash hands thoroughly after handling.

SECTION 9: Physical and Chemical Properties

Appearance Clear, colorless viscous liquid

Odor Practically odorless

Physical State Liquid

pH Approximately neutral

Boiling Point 188°C

Melting Point -59°C

Flash Point 99°C (Closed Cup)

Auto-Ignition Temperature Approximately 371°C

Density (25°C) 1.036–1.038 g/cm³

Refractive Index (20°C) 1.432–1.433

Vapor Pressure Low

Solubility Completely miscible with water, alcohol, acetone, and many organic solvents

Viscosity Approximately 58 mPa·s (20°C)

SECTION 10: Stability and Reactivity

Chemical Stability

Stable under recommended storage conditions.

Conditions to Avoid

Excessive heat

Strong oxidizing agents

Incompatible Materials

Strong oxidizers

Strong acids

Hazardous Decomposition Products

Carbon monoxide

Carbon dioxide

Aldehydes

Hazardous Polymerization

Will not occur.

SECTION 11: Toxicological Information

Acute Toxicity

Low acute toxicity under normal conditions of use.

Skin Contact

May cause mild irritation following prolonged exposure.

Eye Contact

May cause temporary irritation.

Inhalation

Mist or vapor at elevated temperatures may irritate the respiratory tract.

Ingestion

Large quantities may cause gastrointestinal discomfort.

Carcinogenicity

Not classified as carcinogenic by IARC, NTP, or OSHA.

SECTION 12: Ecological Information

Ecotoxicity

Expected to have low environmental toxicity.

Biodegradability

Readily biodegradable.

Bioaccumulation

Not expected to bioaccumulate.

Mobility

Highly soluble in water.

SECTION 13: Disposal Considerations

Dispose of product and packaging according to applicable local, provincial/state, and federal regulations.

Avoid release into drains, waterways, or the environment.

SECTION 14: Transport Information

Item Information

UN Number Not regulated

UN Proper Shipping Name Not regulated

Hazard Class Not regulated

Packing Group Not applicable

Marine Pollutant No

ADR/RID Not regulated

IMDG Not regulated

IATA Not regulated

SECTION 15: Regulatory Information

This product is not classified as hazardous under the Globally Harmonized System (GHS).

Applicable regulations may include:

Canada's Food and Drugs Act

Cosmetic Regulations (Health Canada)

WHMIS (where applicable)

U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200)

U.S. FDA requirements for pharmaceutical and food-grade materials, where applicable

United States Pharmacopeia (USP)

European Pharmacopoeia (EP)

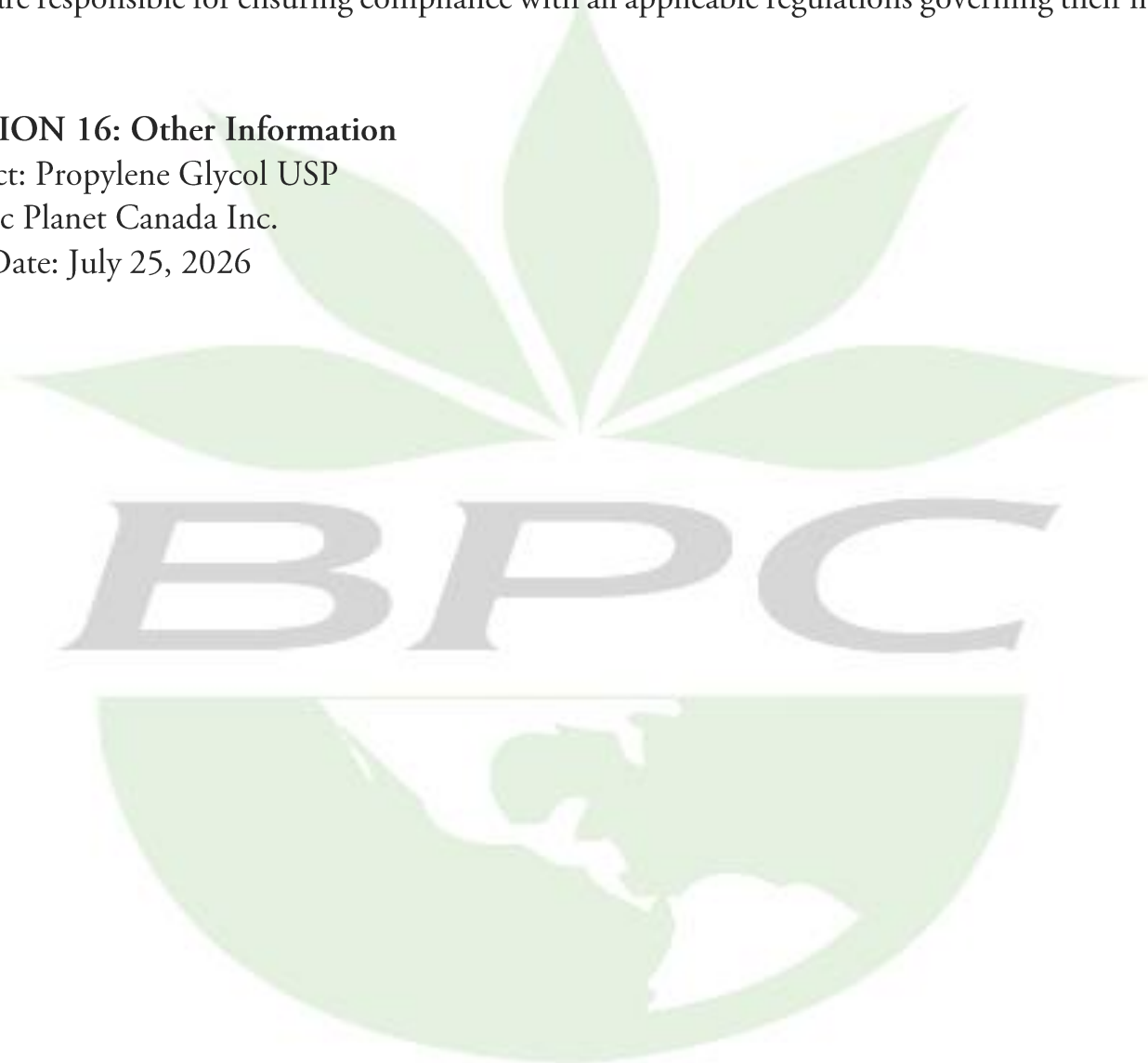
Users are responsible for ensuring compliance with all applicable regulations governing their intended use.

SECTION 16: Other Information

Product: Propylene Glycol USP

Botanic Planet Canada Inc.

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