

# Pan Am Propylene Food Grade

## 1. Product and Company Identification

### 1.1 Product identifiers

Product Name: Pan Am Propylene Food Grade  
 Product Number: Not available.  
 CAS-No.: Not available.

### 1.2 Identified uses of the product and uses advised against

Identified Uses: Heat transfer fluid.

### 1.3 Details of the chemical supplier

Company: Pan American Equipment LLC  
 2419 S 153<sup>rd</sup> Street  
 Omaha, NE 68144  
 USA  
 Telephone: +1 402-502-1229

### 1.4 Emergency telephone number

Within the U.S.: +1 800-424-9300 (CHEMTREC)  
 Outside the U.S.: +1 703-527-3887 (CHEMTREC)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No substance is assessed as PBT or vPvB. No substances are known to have endocrine disrupting properties.

## 3. Composition/Information on Ingredients

### 3.1 Product mixture

Synonyms: Mixture.  
 Molecular Wt: Not available.  
 CAS-No.: Not available.

Ingredients	Classification	CAS-No.	Concentration
Propylene glycol	Not hazardous.	57-55-6	10-100%
Inhibitor solution (trade secret)	Not hazardous.	n/a	<12%

## 4. First Aid Measures

### 4.1 Description of first aid measures

#### Skin exposure

Wash off with soap and water. Consult a physician.

**Eye exposure**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Inhalation**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion**

Never give anything by mouth to an unconscious person. Rinse mouth with water and consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

There are no serious effects expected as a result of exposure to propylene glycol. Minor irritation may occur with exposure to eyes or skin. The most important known symptoms and effects are described in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

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**5. Fire Fighting Measures****5.1 Suitable (and unsuitable) extinguishing media**

Suitable: Water spray, carbon dioxide, foam, dry chemical, Halon, any "ABC" class.

**5.2 Specific hazards arising from the chemical**

When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (e.g., carbon oxides).

**5.3 Advice for firefighters**

Incipient fire responders should wear eye protection. Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move fire-exposed containers if it can be done without risk to firefighters. If possible, prevent run-off water from entering storm drains, bodies of water, or other environmental areas.

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**6. Accidental Release Measures****6.1 Personal precautions, protective equipment, and emergency procedures**

Proper protective equipment should be used. In case of an uncontrolled release, clear the affected area, protect people, and respond with trained personnel. Avoid breathing vapors. Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not let product enter drains or surface and ground water sources.

**6.3 Methods and materials for containment and cleaning up**

Small spill: Cover with absorbent material (floor absorbent, vermiculite, etc.). Soak up spill and place material into a drum.

Large spill: Wear protective equipment. Stop spill at source, dike the area surrounding the spill to prevent further exposure. Prevent material from entering sewer system. If necessary, absorbents such as vermiculite, clay floor absorbent may be used on spill and shoveled into drums.

**6.4 References to other sections**

For disposal see section 13.

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**7. Handling and Storage****7.1 General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke in work areas. Wash hands before breaks and at the end of the day.

## 7.2 Precautions for safe handling

Use in a well-ventilated location. Open drums and other containers of this product slowly, on a stable surface. Drums and other containers of this product should be properly labeled. Keep containers tightly closed.

## 7.3 Conditions for safe storage, including any incompatibilities

Move drums of this product carefully, with the appropriate drum-handling equipment. Store drums and other containers in cool, dry locations, away from direct sunlight, or sources of intense heat. Storage areas should be made of fire-resistant materials. Keep containers away from incompatible chemicals.

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## 8. Exposure Controls/Personal Protection

### 8.1 Control and exposure limits recommended by the chemical manufacturer

USA Workplace Environmental Exposure Levels (WEEL): 10 mg/m<sup>3</sup> (propylene glycol, TWA value)

### 8.2 Appropriate engineering controls

Use with adequate ventilation to minimize exposure to mists or sprays of this product. Prudent practice is to ensure eyewash/safety shower stations are available near areas where this product is used. Monitoring of oxygen level is recommended.

### 8.3 Individual protection measures, such as personal protective equipment

All personnel handling the product should use a personal protective equipment level D.

#### Respiratory protection

None needed for normal circumstances of use. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, or applicable State regulations. Use supplied air respiration protection if oxygen levels are below 19.5% or are unknown.

#### Eye protection

Wear safety glasses with side shields.

#### Hand protection

Wear butyl rubber, natural rubber, neoprene, Nitrile rubber, or other suitable gloves for routine industrial use.

#### Body protection

Wear protective clothing.

#### Thermal hazards

This material does not present any thermal hazard under normal circumstances of use.

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## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

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|---|--|
| a) Physical state                               | Liquid.  |
| b) Color  | Clear, colorless   |
| c) Odor   | Odorless. Odor threshold: No data available.                                   |
| d) Melting/freezing point                       | -51.1°C (-60°F), for 95% concentration.  |
| e) Boiling point                                | >100°C (>212°F)  |
| f) Flammability                                 | Can burn at 100% concentration   |
| g) Upper/lower flammability or explosive limits | Upper (UEL): 12.5% (V)<br>Lower (LEL): 2.6% (V) [UEL/LEL for propylene glycol] |
| h) Flash point                                  | 108°C (226°F), for 100% Dynalene PG<br>None for concentrations <80%            |
| i) Auto-ignition temperature                    | 371.1°C (700°F) [for propylene glycol]   |
| j) Decomposition temperature                    | Not available.   |

k) pH	7.0 – 9.0
l) Kinematic viscosity	>1.0 mm <sup>2</sup> /s at 25°C (77°F)
m) Water solubility	Soluble.
n) Partition coefficient: n-octanol/water	logP = -1.41, -0.30
o) Vapor pressure	0.08 mmHg at 25°C (77°F)
p) Density	1.0 – 1.1 g/cm <sup>3</sup> at 25°C (77°F)
q) Vapor density	2.62 (Air = 1.0)
r) Particle characteristics	Not applicable

## 9.2 Other information

None.

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## 10. Stability and Reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under ordinary conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Reactions with incompatible materials may create carbon monoxide and other toxic vapors.

### 10.4 Conditions to avoid

High temperatures, oxidizing conditions, contact with incompatible chemicals.

### 10.5 Incompatible materials

Strong oxidizers, strong acids, acid chlorides, acid anhydrides, chloroformates, or strong reducing agents.

### 10.6 Hazardous decomposition products

May create carbon monoxide and other toxic vapors (thermal decomposition).

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## 11. Toxicological Information

### 11.1 Information on toxicological effects

For propylene glycol

LD50 oral, rat: 22 000 mg/kg

LD50 dermal, rabbit: 2 000 mg/kg

#### **Skin corrosion/irritation**

Skin – human. Result: mild skin irritation, 7d. Not enough for classification.

#### **Serious eye damage/eye irritation**

Eyes – rabbit. Result: mild eye irritation. Not enough for classification.

#### **Respiratory or skin sensitization**

This product is not reported to have any sensitization effects.

#### **Germ cell mutagenicity**

This product is not reported to have any negative effects.

#### **Suspected cancer agent**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, NTP, OSHA, or IARC.

**Irritancy of product**

This product may cause irritation to contaminated tissues.

**Reproductive toxicity**

This product is not reported to produce mutagenic, embryotoxic, teratogenic, or reproductive effects in humans.

**STOT - single exposure**

This product is not reported to have any negative effects.

**STOT - repeated exposure**

This product is not reported to have any negative effects.

**Aspiration hazard**

This product is not reported to have any negative effects.

**11.2 Information on other hazards**

None.

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**12. Ecological Information****12.1 Ecotoxicity (aquatic and terrestrial)**

This product may be harmful to aquatic life if large quantities are released into bodies of water.

Propylene glycol

Toxicity to fish: LD50 – *Oncorhynchus mykiss* – 40 613 mg/L, 96h

Toxicity to invertebrates: LC50 – *Ceriodaphnia dubia* – 18 340 mg/L, 48h (fresh water)

LC50 – *Mysidopsis bahia* – 18 800 mg/L, 96h (marine water)

EC50 – *Selenastrum capricornutum* – 19 000 mg/L, 96h (fresh water)

EC50 – *Skeletonema costatum* – 19 100 mg/L, 48h (marine water)

**12.3 Bioaccumulative potential**

Propylene glycol is expected to readily biodegrade.

**12.4 Mobility in soil**

High (Log K<sub>oc</sub> = 1).

**12.5 Results of PBT and vPvB assessment**

According to regulation (EU) 1907/2006, no substance is assessed as PBT or vPvB.

**12.6 Endocrine disrupting properties**

No substances are known to have endocrine disrupting properties according to Regulations (EU) 1907/2006, (EU) 2017/2100, (EU) 2018/605

**12.7 Other adverse effects**

None known.

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**13. Disposal Considerations****13.1 Waste treatment methods**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

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**14. Transport Information**

UN Number: Not applicable.

UN Proper Shipping Name: Not applicable.

Packing Group: Not applicable.

**DOT / IMDG / IATA**  
 Not dangerous goods.

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## 15. Regulatory Information

**SARA 302** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  
**SARA 313** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.  
**SARA 311/312** No SARA hazards

**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

Propane-1,2-diol CAS-No. 57-55-6

**New Jersey Right To Know**

No components are subject to the New Jersey Right to Know Act.

**TSCA**

All components of this product are on the Toxic Substance Control Act Inventory.

**EINECS**

All components of this product are on the European Inventory of Existing Commercial Chemical Substances.

**California Prop 65**

This product does not contain ingredients that cause cancer or reproductive harm known to the state of California.

**Canada DSL**

All components of this product are on the Canadian Domestic Substance List.

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## 16. Other Information

Hazard Statement: Not a hazardous substance or mixture.

**Revision Date:** 3 October 2024

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