



your partner in food safety

SDS

Safety Data Sheet

1) Product Identification

Product Name: Propylene Glycol F.G.

Product Code: I00094

Recommended Use: For use as non-toxic antifreeze in glycol chillers.

Producer: Birko Corporation
9152 Yosemite Street
Henderson, CO 80640-8027

Contact Information: (303) 289-1090 or 1-800-525-0476

Emergency Number: CHEMTREC 1-800-424-9300

2) Hazard(s) Identification

Health	Environmental	Physical
Acute Toxicity Cat. 5 Skin Corrosion Cat. 3 Eye Effects Cat. 2B	Aquatic Toxicity Acute Cat. 4	

Labeling:**Symbol:**

Signal Word: Warning
Irritant

Hazard Statement(s): This product may cause eye damage, and may be harmful if swallowed. Do not get into eyes or on clothing. In case of contact immediately flush with water for at least 15 minutes.

Precautionary Statement(s): Contact Use rubber gloves, protective splash-proof goggles, and protective clothing. Remove contaminated clothing and wash before re-use. Do not contaminate food, feed, or water. Keep container closed when not in use.

3) Composition/ Information on Ingredients

Name(s)	Synonym(s)	CAS Number	Weight %
Propylene Glycol		57-55-6	100%

4) First-Aid Measures

Inhalation	Skin Contact	Eye Contact	Ingestion
Remove from exposure. Administer oxygen if breathing is difficult. Resuscitate if necessary. Get medical help immediately	Promptly rinse exposed areas with water. Do not wear contaminated clothing until it has been laundered. If irritation persists, consult a physician.	Immediately rinse eyes thoroughly in cool running water for at least 15 minutes. If irritation persists, or inflammation or swelling occurs, seek medical attention.	Not expected to require first aid measures. Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

5) Firefighting Measures

Suitable Extinguishing Media: Water, and Carbon Dioxide.

Unsuitable Extinguishing Media: N/A

Specific Hazards: Always wear self-contained breathing apparatus when fighting a chemical fire.

Special Protective Actions for Fire-Fighters: Carbon Monoxide/Carbon Dioxide gases liberated during combustion.

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6) Accidental Release Measures

Personal Precautions: Be sure to use all necessary Personal Protective Equipment

Environmental Precautions: Avoid contamination of food, feed, waterway, or groundwater.

Methods and Materials for Containment and Clean-Up: Capture material and contain for re-use or disposal. Caution spilled material will be extremely slippery.

7) Handling and Storage

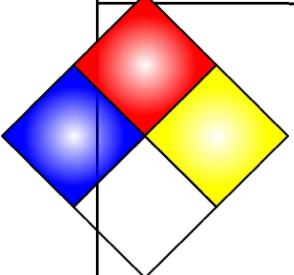
Precautions for Safe Handling: Do not contaminate food, feed, or natural water. Supplier is not responsible for disposition of this product. Do not reuse container. Maintain an eyewash station, and safety shower in product handling areas.

Conditions for Safe Storage: Keep container closed when not in use. Store in a cool, dry location.

8) Exposure Controls and Personal Protection

Appropriate Engineering Controls: Ventilation: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

Exposure Limits:

Name (CAS-No.)	PEL	TWA	Ceiling	IDLH
	N/A	N/A	N/A	N/A

Personal Protective Equipment

Eye/Face	Gloves
	

Eye/Face: Safety glasses.

Skin: Wear appropriate clothing.

Gloves: Wear appropriate chemical resistant gloves.

Respiratory: Use only when concentrations exceed exposure limits. If limits are exceeded a NIOSH approved respirator is required. If eye irritation occurs use a full face style mask. If respirators are warranted in the workplace a respiratory protection programs must meet 29 CFR 1910.134, and be followed.

Protective Material Types: Butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC), or Tychem (R)

9) Physical and Chemical Properties

Physical Form: Liquid

Appearance: Clear, colorless

Odor: Odorless

pH: 7.0

Melting Point: -60°C
Freezing Point: -60°C
Boiling Point: 370°F
Flash Point: 210°F ASTM D56
Evaporation Rate: < 1
Flammability: Not flammable
Vapor Pressure: 0.129 mm HG@ 77°F
Vapor Density: 2.6
Relative Density: 8.64 lbs/gal at 60°F
Specific Gravity: 1.04
Solubility: Miscible

10) Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressure.
Possibility of Hazardous Reactions: This product does not polymerize.
Conditions to Avoid: Heat, flames, ignition sources and incompatibles
Materials to Avoid: Strong oxidizer.
Hazardous Decomposition Products: Carbon Dioxide and water vapor.

11) Toxicological Information

Acute Toxicity:

Test	Results	Basis
LD50 Oral (rat)	20g/kg	Product test
LD50 Skin (rabbit)	20.8g/kg	Product test

Summary Comments: Contact with skin for extended periods of time can cause irritation. If irritation persists, seek medical attention.

Sub-chronic/Chronic Toxicity:

Test	Results	Comments
N/A	N/A	N/A

Summary Comments: N/A

Medical conditions aggravated by exposure: N/A

12) Ecological Information

Toxicity:

Test	Results
LC/EC/IC50	>100mg/l

Persistence and Degradability: Biodegradable

Bioaccumulative Potential: This material is believed not to bioaccumulate.

Mobility in Soil: Biodegradable

Other Adverse Effects: N/A

13) Disposal Considerations

Disposal Method: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility.

Empty Container: Dispose of container and unused contents in accordance with federal, state and local requirements.

14) Transport Information

UN Number: Not Regulated

15) Regulatory Information

US Regulations:

CERCLA Sections 102a/103 Hazardous substances (40 CFR 302.4): N/A

SARA Title III SARA Sections 311/312 Hazardous Categories (40 CFR 370.21):

Acute: Yes

Chronic: No

Fire: No

Reactive: No

Sudden Release: No

State Regulations:

California Proposition 65: This product is not listed.

Canadian Regulations:

Controlled Products Regulations (CPR): This product has been classified in accordance with the criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the CPR.

WHMIS Classification: N/A

National Inventory Status: U.S. Inventory (TSCA): All the components of this substance are listed on or exempt from the inventory.

Canada Inventory

(DSL/NDSL): All components of product are listed on the DSL

Personal Protective Index											
A											
B											
C											
D											
											X Ask your supervisor

Safety Glasses
 Face Shield
 Splash Goggles
 Airline Mask or Mask
 Gloves
 Synthetic Apron
 Dust Respirator
 Vapor Respirator
 Dust + Vapor Respirator
 Full Suit
 Boots

16) Other Information

HMIS

1	FLAMMABILITY
1	HEALTH
0	REACTIVITY
B	Personal Protection

Hazard Index

4-Severe

3-Serious

2-Moderate

1-Slight

0-Minimal

Preparer: Ramsey Johnson

Approved By: Terry L. McAninch

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