

Section 1. Chemical Product and Company Identification

Flo-Kem, Inc	Name: Glass Cleaner Concentrate	Emergency Telephone #:
19402 Susana Road	Identity: Glass Cleaner Concentrate	CHEMTEL (800)-255-3924
Rancho Dominguez, CA 90221	Product Code: 9005	

Section 2. Hazards Identification

Classification: **Physical:** NA
 Health: Irritant
 Environmental: ND

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

Acute: Eyes: Causes eye irritation.
Skin: Prolonged or repeated contact may cause irritation and redness.
Ingestion: May cause gastric distress or disturbances if ingested.
Inhalation: May cause respiratory tract irritation.
Chronic: Prolonged or repeated skin contact may cause skin irritation. This product is not listed as or anticipated to be a potential carcinogen by NTP or OSHA.

Section 3. Composition, Information on Ingredients

Hazardous Component > 1%:	CAS Number:	% By Weight:
2-Butoxyethanol	111-76-2	8-10
Isopropanol	67-63-0	1
Propylene Glycol-t-Butyl Ether	57018-52-7	8-10

Section 4. First Aid Measures

Have product container or label with you when calling a poison control center, doctor, or going for treatment.

Eyes: Flush eyes with large amounts of water, lifting upper and lower eyelids. If irritation persists, obtain medical attention.
Skin: Wash off with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists, get medical attention.
Ingestion: Do not induce vomiting. Rinse mouth with water, then give one to two glasses of water if victim is conscious. Obtain medical attention immediately.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Section 5. Fire Fighting Measures

Extinguishing Media: Foam, dry chemical, carbon dioxide, water fog. Use water to cool fire-exposed containers.
Special Fire Fighting Procedures: Prevent breathing vapors. Wear SCBA and impervious protective clothing.
Specific Hazards Arising from the Chemical: In a fire or if heated, pressure will increase and the container may burst with the risk of subsequent explosion.

Section 6. Accidental Release Measures

Small Spills: Mop up. Slippery on floor. Absorb liquid with absorbent material. Collect spilled material in a properly labeled container for later disposal.

Large Spills: Same as small spill. Dike area and absorb into neutral material or pump up. Flush traces with plenty of water. Do not let run-offs enter drains or bodies of water.

Section 7. Handling and Storage

Handling and Storage: Store in cool, dry well ventilated area. Keep container tightly closed when not in use.

Other Precautions: Keep out of reach of children. FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY.

Section 8. Exposure Control / Personal Protection

Component:	CAS Number:	PEL:	TLV:	IDLH:
2-Butoxyethanol	111-76-2	25 ppm mg/M ³ skin	25 ppm mg/M ³ skin	
Isopropanol	67-63-0	400 ppm mg/M ³	400 ppm mg/M ³	
Propylene Glycol-t-Butyl Ether	57018-52-7	NE mg/M ³	NE mg/M ³	

Respiratory Protection: Not normally indicated when used as directed. Use NIOSH approved air purifying respirator if significant vapor, mist, or aerosol is generated. Recommended if experiencing respiratory irritation.

Ventilation: No special measures required.

Mechanical/Engineering (General): Not normally indicated when used as directed.

Protective Gloves: Rubber or vinyl; optional.

Eye Protection: Chemical safety goggles.

Protective Clothing: Long pants, sleeves, apron, boots.

Work/Hygienic Practices: The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment.

Section 9. Physical and Chemical Properties

Appearance and Odor: Clear blue liquid, cucumber scent.

pH: 8.5 ± 0.5	Boiling Point: >212° F	Specific Gravity: 0.985 ± 0.005	Melting/Freezing Point: ND
Solubility: Complete	Vapor Pressure (mm Hg.): ND	Vapor Density (Air = 1): ND	Evaporation Rate (H2O = 1): ND
Flash Point (TCC): ≥141°F	% LEL: NA	% UEL: NA	Flammable Limits: NA
			VOCgm/L: 187

Section 10. Stability and Reactivity

Stability: Stable.

Hazardous Polymerization: Will not occur.

Incompatibility (Materials to Avoid): Reactive with oxidizing materials.

Hazardous Decomposition Byproducts: Carbon Dioxide and Carbon Monoxide.

Conditions to Avoid: None

Section 11. Toxicological Information

Carcinogenicity: **NTP** No **IARC** No **OSHA** No

Component:	LD50 Oral:	LC50 Inhalation:	LD50 Dermal:
Ethylene glycol monobutyl ether	470-3000 mg/kg - rat	700 ppm 7H - rat	99-610 mg/kg - rabbit
Isopropanol	5800 mg/kg - rat	12,000 ppm 8H - rat	>10,000 mg/kg - rabbit
Propylene glycol t-butyl ether	3771 mg/kg - rat	> 550 ppm 4H - rat	> 2000 mg/kg - rabbit

Other Toxicological Data

Ethylene glycol monobutyl ether	No data available.
Isopropanol	Skin- slight irritation - rabbit. Eye- moderate irritation - rabbit.
Propylene glycol t-butyl ether	Severe eye irritation at full concentration.

Section 12. Ecological Information

Environmental toxicity:

Component:	Toxicity to fish:	Toxicity to aquatic invertebrates:	Toxicity to aquatic plants and micro-organisms:
Ethylene glycol monobutyl ether	LC50 21,400 mg/L 96H bluegill sunfish	LC50 835 mg/L daphnia magna	No data available.
Isopropanol	LC50 15,300 mg/L 96H flathead minnow	LC50 1000 µl/L 96H daphnia magna	No data available.
Propylene glycol t-butyl ether	LC50 32,500-43,000 ppm 96H fish	LC50 > 1000 48H mg/L daphnia magna	EC50 > 1000 96H mg/L algae

Other Ecological Data

Ethylene glycol monobutyl ether	Moderately toxic to aquatic organisms.
Isopropanol	No data available.
Propylene glycol t-butyl ether	Not toxic to microbes in activated sludge at 100 mg/L.

Section 13. Disposal Considerations

Disposal: Dispose in accordance with Federal, State, and Local Requirements.

Section 14. Transportation Information

DOT NOT REGULATED

Reportable Quantity: IN PACKAGES OVER 110 GALLONS

Section 15. Regulatory Information

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Hazard:	Yes	Pressure Hazard:	No		
Chronic Health:	No	Reactive Hazard:	No	Fire Hazard:	No

SARA 313: 2-Butoxyethanol

CERCLA Hazardous Substances:

None

State Regulations:

California: This product contains the following chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm:

None

Section 16. Other Information

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ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE (310) 632-7124

NA = Not Applicable

NE= Not Established

ND= Not Determined

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