

Material Safety Data Sheet  
 May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.



U.S. Department of Labor  
 Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072



IDENTITY (As Used on Label and List) **Conc. Blue Glass Cleaner** Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I **Distributor:** 103K

**Palmer Company, Inc.** Emergency Telephone Number  
(414) 547-2246

Address (Number, Street, City, State, and ZIP Code) **1201 Sentry Dr.** Telephone Number for Information  
Same

**Waukesha, WI 53186** Date Prepared  
February, 1989

Signature of Preparer (optional)

**Section II — Hazardous Ingredients/Identity Information** N.A. = Not Applicable N.E. = Not Established

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ethylene glycol monobutyl ether (2-butoxyethanol) CAS # 111-76-2	25ppm(skin)	25ppm(skin)	N.A.	
Isopropanol CAS# 67-63-0	400ppm	400ppm	500ppm(stel)	
Ammonium Hydroxide CAS# 1336-21-6	N.E.	N.E.	N.E.	

This mixture contains 3.37% ethylene glycol monobutyl ether which is considered a toxic chemical and subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

**Section III — Physical/Chemical Characteristics**

Boiling Point Approximately	212°F	Specific Gravity (H <sub>2</sub> O = 1)	0.992
Vapor Pressure (mm Hg.)	Like water	Melting Point	N.A.
Vapor Density (AIR = 1)	Like water	Evaporation Rate (Butyl Acetate = 1)	<0.4
Solubility in Water	Completely miscible		
Appearance and Odor	Blue Liquid - Faint alcohol odor		

**Section IV — Fire and Explosion Hazard Data**

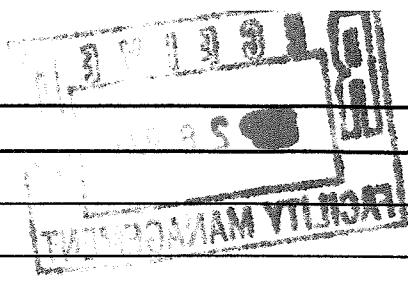
Flash Point (Method Used) Non Flammable Aqueous Solution	Flammable Limits N.A.	LEL N.E.	UEL N.E.
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Extinguishing Media  
Water spray, dry chemical, CO<sub>2</sub>

Special Fire Fighting Procedures  
Self contained breathing apparatus

Unusual Fire and Explosion Hazards  
N.A.

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**Section V — Reactivity Data**

Stability	Unstable		Conditions to Avoid N.A.
	Stable	X	N.A.

Incompatibility (*Materials to Avoid*)  
Strong acids and oxidizers

Hazardous Decomposition or Byproducts  
None

Hazardous Polymerization	May Occur		Conditions to Avoid N.A.
	Will Not Occur	X	N.A.

**Section VI — Health Hazard Data**

Route(s) of Entry:	Inhalation? X	Skin? X	Ingestion? X
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Health Hazards (*Acute and Chronic*)  
2-butoxyethanol is absorbed through human skin. Dermal LD50 in rabbits is reported to be 220 mg/kg. Relative to other materials, a single application of this product is moderately toxic by skin absorption. Daily application of up to 150mg/kg/day to rabbits for 13 weeks did not induce adverse systemic effects. Avoid skin contact.

Carcinogenicity:	NTP? N.A.	IARC Monographs? N.A.	OSHA Regulated? N.A.
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Signs and Symptoms of Exposure Eyes: Direct eye contact may result in irritation. Skin: Prolonged or repeated exposure may result in irritation, skin dryness. Ingestion: May cause gastrointestinal irritation. In spraying applications, use with adequate ventilation.

Medical Conditions  
Generally Aggravated by Exposure

None known

Emergency and First Aid Procedures Eyes: Flush with water for at least 15 minutes. Call a physician if irritation persists. Skin: Wash with mild soap and water. Ingestion: Drink 2 large glasses of water. Call a physician. Inhalation: Remove to fresh air and rest. In all cases, call a physician if any irritation persists.

**Section VII — Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material Is Released or Spilled  
Collect and reuse if possible. Flush spill area with water to prevent slippery conditions.

Waste Disposal Method  
Dispose of in manner approved by all federal, state and local regulations.

Precautions to Be Taken in Handling and Storing  
Normal good housekeeping practices to prevent splashes and spills.

Other Precautions  
Keep out of the reach of children.

**Section VIII — Control Measures**

Respiratory Protection (*Specify Type*)  
None required with adequate ventilation.

Ventilation	Local Exhaust N.A.	Special N.A.
	Mechanical ( <i>General</i> ) If necessary	Other N.A.

Protective Gloves  
If needed to protect sensitive skin

Eye Protection  
If splashing likely

Other Protective Clothing or Equipment  
Full cover clothing.

Work/Hygienic Practices  
Wash thoroughly after handling.