



GLASS & MULTI-SURFACE CLEANER



DESCRIPTION

A super concentrated glass cleaner formulated with a select blend of surfactants and water soluble solvents to speed the breakup and removal of oil and water-soluble soils on windows, glass, mirrors, ceramic, porcelain, and Formica®. Leaves a surface spotless and streakless.

[This container will produce 20.5 gallons of ready-to-use product]

DIRECTIONS

This product must be diluted before use. See your supervisor or technical sales representative for instructions for use.

FOR USE ON

Windows, Showcases, Plexiglass®, Windshields, Stainless Steel, Mirrors, Chrome, Computer Monitors, TV Screens and any washable surfaces

PRODUCT SPECIFICATIONS

Color:	Blue	Emulsification:	Excellent
Odor:	Characteristic	Detergency:	Excellent
pH (concentrate):	11 - 12	Rinsability:	Excellent
pH (ready-to-use):	8.5 - 9.5	Flash Point:	189°F (TCC)
Viscosity:	Water thin	Biodegradability:	Completely
Foam:	Low	Storage/Stability:	2 years
Abrasives:	None	Weight Per Gallon:	7.35 lbs.
Solubility:	Complete with water		

Glass Cleaners

SD1

MATERIAL SAFETY DATA SHEET

N/A= Not Applicable

Prepared by: Regulatory Affairs Dept.

(Prepared According to 29 CFR 1910.1200)

Effective Date: 5/01 Revision: n/a

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Supplier's Name: Misco Products Corporation	Product Name: Glass & Multi-Surface Cleaner	HMS Hazardous Materials Identification System
Supplier's Address: Reading, PA	Generic Name: Glass Cleaner Concentrate	(Ready-to-Use product ONLY)
Supplier's Phone #: (610) 926-4106	Chemical Family: Solvent Detergent Blend	Health - 1
	Formula: Proprietary	Flammability - 0
		Reactivity - 0
		Protection - A

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
2-Butoxyethanol	111-76-2	40 to 50	25 ppm	25 ppm	N/A
Sodium Lauryl Sulfate	151-21-3	0 to 5			
Dye	N/A	0 to 5			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 212 F.	Specific Gravity: .882
Vapor Pressure: 20mm Hg @ 68 F.	Vapor Density (Air=1): >1
% Volatile: 99+	pH: 11 - 12 (pH Use Dilution = 8.5 - 9.5)
Solubility in Water: Complete	Evaporation Rate (Water=1): >1
Physical Description: Thin dark blue liquid with characteristic odor.	

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 189 F. (TCC)	Lower Explosion Limit: n/a
Upper Explosion Limit: n/a	Extinguishing Media: CO ₂ , Dry Foam, Water Mist
Special Firefighting Procedures: Keep fire exposed containers cool with water.	
Unusual Fire and Explosion Hazards: Self-contained breathing apparatus use in confined spaces.	

SECTION 5-REACTIVITY DATA

Stability: Stable	Hazardous Polymerization: None
Hazards Decomposition Products: Alkaline vapors in a fire.	Incompatibility (Materials to Avoid): Strong acids.

SECTION 6-STORAGE AND HANDLING INFORMATION

Keep out of reach of children. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Avoid breathing of vapors. Use in well-ventilated area.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
Skin: May cause irritation with prolonged or repeated contact
Eyes: May be moderately irritating to eyes
Inhalation: Vapors and mists may be irritating to mucous membranes in the nose, throat, and lungs.
Ingestion: Irritating to mouth, throat and gastrointestinal system. Nausea and vomiting may result from excess amounts.
First Aid Procedures:
Skin: Flush with water. Seek medical attention if irritation persists.
Eyes: Flush with large quantities of water. Seek medical attention if irritation persists.
Inhalation: Get to fresh air. Seek medical attention if irritation persists.
Ingestion: Immediately drink 2 glasses of water. Call poison control center. Seek medical attention.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use in well-ventilated area.
Ventilation Requirements: No special requirements under normal use conditions
Protective Gloves: Solvent proof, e.g. rubber or neoprene.
Eye Protection: Chemical goggles, face shield when handling concentrate only.
Other Protective Equipment: No special requirements under normal use conditions

SECTION 9-SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Floors will become slippery. Avoid walking in product. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways.
Waste Disposal Method: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not disposal of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

SECTION 10-REGULATORY INFORMATION

SARA Title III - Section 311/312 -Hazard Categories:	Shipping Information:	HMS Hazardous Materials Identification System
No - Fire Hazard	FOR CONTAINERS > 1 Gallon : Cleaning Compound	
No - Sudden Release of Pressure Hazard		
No - Reactivity Hazard	FOR 1 GALLON CONTAINERS : Cleaning Compound	
Yes - Immediate (acute) Health Hazard		
No - Delayed (chronic) Health Hazard	FOR CONTAINERS < 1 GALLON : Cleaning Compound	
		Health 2
		Flammability 0
		Reactivity 0
		Personal Protection B

FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION: CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight
111-76-2	2-Butoxyethanol (Glycol Ether)	40 - 50%

This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.

CAS#	Chemical Name	Percent by Weight
	None	

SECTION 11-OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product.