

MIGHTY MAC BRAND

CRYSTAL *All Purpose Spray Cleaner*

DESCRIPTION

A ready to use, fast-acting, heavy-duty cleaner formulated to clean all washable surfaces. The non-abrasive formula penetrates and removes the most stubborn stains and leaves surfaces sparkling clean and fresh.

DIRECTIONS

1. Simply spray onto soiled surface.
2. Wipe off with a clean absorbent cloth, towel or damp sponge. In cleaning glass surfaces, wipe immediately with a clean cloth, towel or sponge to prevent streaking.

PRODUCT SPECIFICATIONS

Active Ingredients:	5.0 ± 0.5%
Color:	Green
Odor:	Citrus
Base:	Biodegradable detergents
pH:	10.5 - 11.5
Viscosity:	Water thin
Foam:	Low
Abrasives:	None
Phosphate:	None
Solubility:	Complete with water
Emulsification:	Excellent
Detergency:	Excellent
Rinsability:	Excellent
Flash Point:	None
Biodegradability:	Complete
Storage/Stability:	2 years
Weight per Gallon:	8.41 lbs./gal.
Freeze / Thaw Stability:	Keep from freezing



Reorder#
79-0480



SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Product Name: Crystal
Generic Name: All Purpose Spray Cleaner
Chemical Family: Detergent/Solvent Blend
Formula: Proprietary

Suppliers Name: Michco
Suppliers Address: 2011 N. High St., Lansing, MI 48906
Suppliers Website: www.Michco.com

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Nonionic Surfactant	9016-45-9	0 to 5		Not Hazardous	
Tetrasodium EDTA	64-02-8	0 to 5			
Anionic Surfactant	151-21-3	0 to 5		Not Hazardous	
Amphoteric Surfactant	2605-78-9	0 to 5		Not Hazardous	
Ethanolamine	141-43-5	0 to 5			
Propylene Glycol Butyl Ether	5131-66-8	0 to 5		Not Hazardous	
Fragrance	N/A	0 to 5		Not Hazardous	
Dye	N/A	<0.1		Not Hazardous	

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 212° F.
Vapor Pressure: 20mm Hg @68°F.
% Volatile: 80+
Solubility in Water: Complete
Physical Description: Thin green liquid with pleasant odor

Specific Gravity: 1.008
Vapor Density (Air=1): >1
pH: 11.0 – 12.0
Evaporation Rate (Water=1): >1

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None
Upper Explosion Limit: N/A
Extinguishing Media: N/A
Special Firefighting Procedures: Non Flammable
Unusual Fire and Explosion Hazards: N/A

Lower Explosion Limit: N/A

SECTION 5-REACTIVITY DATA

Stability: Stable
Hazards Decomposition Products: Alkaline vapors in a fire.

Hazardous Polymerization: None
Incompatibility (Materials to Avoid): Strong Acids, oxidizers, Chlorine

SECTION 6-STORAGE AND HANDLING INFORMATION

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

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
Skin: May cause irritation with prolonged or repeated contact (dryness, redness)
Eyes: Eye irritant. May cause conjunctivitis or possible irreversible damage.
Inhalation: Mists may be irritating to mucous membranes in the nose, throat, and lungs.
Ingestion: Irritating to the mouth and throat. May cause headache, nausea, abdominal pain.
First Aid Procedures:
Skin: Flush with water. Seek medical attention if irritation persists.
Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention immediately.
Inhalation: Get to fresh air. Seek medical attention if irritation persists.
Ingestion: Do not induce vomiting. Drink large quantities of water. Seek medical attention immediately.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH/MSHA approved organic vapor canister.
Ventilation Requirements: Provide mechanical exhaust when misting of product is present.
Protective Gloves: Rubber or other chemical resistant.
Eye Protection: Safety glasses or chemical splash goggles.
Other Protective Equipment: Eyewash station nearby. Wear protective outer-wear when danger of mist contact may occur. Protective rubber boots should be worn.

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. Ventilate area well. 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 dispose 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:
 No - Fire Hazard
 No - Sudden Release of Pressure Hazard
 No - Reactivity Hazard
 Yes - Immediate (acute) Health Hazard
 No - Delayed (chronic) Health Hazard

Shipping Information:
 FOR CONTAINERS > 1 Gallon : Cleaning Compound
 FOR 1 GALLON CONTAINERS : Cleaning Compound
 FOR CONTAINERS < 1 GALLON : Cleaning Compound

HMIS Hazardous Materials Identification System

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
	None	

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