

# MIGHTY MAC BRAND

# HERCULES

## Quarry Tile Cleaner

### DESCRIPTION

An all purpose hard surface cleaner containing no acids or abrasives. Designed to dissolve soap scum and hard water films as well as scum, scale, and other organic residues. When used as directed, it will not harm any surface not affected by water. Highly concentrated and economical to use. Non-fuming, non-acid, non-toxic.

### DIRECTIONS

FOR USE ON CHROME, STAINLESS, PORCELAIN, CERAMIC TILE, FIBERGLASS, CONCRETE, TERRAZZO, RESILIENT TILE, ETC.: DILUTE ACCORDINGLY:

Light Cleaning -- 1:40 ratio (3 ozs. Per gallon of water)

General Cleaning -- 1:30 ration (4 ozs. Per gallon of water)

Heavy-duty Cleaning -- 1:20 ration (6 ozs. Per gallon of water)

These directions are flexible rather than specific. In many cases a more dilute solution can be used, while for extreme conditions a less dilute solution may be used.

Apply solution freely to the surface with clean sponge, mop, or sprayer. Allow solution to stand at least 5 minutes or more depending on soil condition. After soil is loosened, wipe or pick-up solution and rinse with clean water. For heavier soil conditions agitate with a scrub brush or floor machine to hasten and improve cleaning time and performance.

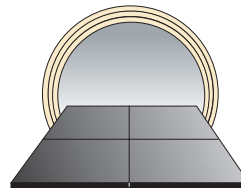
AS MOPPING SOLUTION ADDITIVE: Add 1 to 2 ounces of concentrate per gallon of rinse water. Rinse floor in the usual manner. Waxed or finished floors will be noticeably cleaner and produce more gloss. Will effectively remove ice melt residue.

AFTER STRIPPING CONDITIONER: Dilute 1 ounce of concentrate per gallon of water and mop on floor. Pick-up with a wet/dry vac or mop. Allow floor to dry and commence to apply finish.

This product meets the maximum content requirements for Volatile Organic Compounds (VOCs) as established by State and Federal regulations.

### PRODUCT SPECIFICATIONS

<b>Active Ingredients:</b>	14.0 ± 0.5%
<b>Color:</b>	Pink
<b>Odor:</b>	Rose
<b>Base:</b>	Sequestering agents
<b>pH:</b>	12.5 - 13.0
<b>Viscosity:</b>	Water thin
<b>Foam:</b>	Moderate
<b>Abrasives:</b>	None
<b>Phosphate Content:</b>	None
<b>Solubility:</b>	Complete with water
<b>Sequestration:</b>	Excellent
<b>Detergency:</b>	Excellent
<b>Rinsability:</b>	Excellent
<b>Flash Point:</b>	None (waterbased)
<b>Biodegradability:</b>	Complete
<b>Storage/Stability:</b>	2 years
<b>Weight per Gallon:</b>	8.77 lbs./gal.
<b>Freeze / Thaw Stability:</b>	Keep from freezing



**Reorder#**  
**19-1060**



**SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION**

**Product Name:** Hercules  
**Generic Name:** Quarry Tile Cleaner  
**Chemical Family:** Detergent 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			
Tetrasodium EDTA	64-02-8	5 to 10			
Nonionic Surfactant	9016-45-9	0 to 5			
Isopropyl Alcohol	67-63-0	0 to 5	400 ppm	400 ppm	500 ppm
Perfume Oil	N/A	0 to 5			
Dye	N/A	0 to 5			

**SECTION 3-PHYSICAL DATA**

**Boiling Point (°F):** 210 F.  
**Vapor Pressure:** 20mm Hg @ 68 F.  
**% Volatile:** 85+  
**Solubility in Water:** Complete  
**Physical Description:** Thin pink liquid with pleasant odor.

**Specific Gravity:** 1.053  
**Vapor Density (Air=1):** >1  
**pH:** 12.5-13.0  
**Evaporation Rate (Water=1):** <1

**SECTION 4-FIRE AND EXPLOSION HAZARD DATA**

**Flash Point (Method Used):** N/A  
**Upper Explosion Limit:** N/A  
**Lower Explosion Limit:** N/A  
**Extinguishing Media:** N/A  
**Special Firefighting Procedures:** Non Flammable  
**Unusual Fire and Explosion Hazards:** N/A

**SECTION 5-REACTIVITY DATA**

**Stability:** Stable  
**Hazards Decomposition Products:** Will not occur.

**Hazardous Polymerization:** None  
**Incompatibility (Materials to Avoid):** Strong acids and oxidizers.

**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. Wear rubber gloves and protective eyewear when handling. Avoid breathing of mists. Use in well-ventilated area.

**SECTION 7-HEALTH HAZARDS AND FIRST AID**

**Effects of Overexposure:**  
**Skin:** Prolonged or repeated contact may cause dermatitis.  
**Eyes:** Eye irritant. May cause redness or swelling.  
**Inhalation:** Mist irritating to nose, throat, and lungs, causing choking sensation.  
**Ingestion:** May be irritating to the mouth, throat, and gastrointestinal system.  
 Vomiting and diarrhea expected with large doses.

**First Aid Procedures:**

**Skin:** Flush with water. Seek medical attention if irritation persists.  
**Eyes:** Flush with large quantities of water, keeping eyelids open. Seek medical attention.  
**Inhalation:** Remove to fresh air. Call physician if breathing is difficult.  
**Ingestion:** Dilute with 2 glasses of water. Seek medical attention if symptoms persist.

**SECTION 8-SPECIAL PROTECTION INFORMATION**

**Respiratory Protection:** Use in well-ventilated area.  
**Ventilation Requirements:** Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.  
**Protective Gloves:** Chemical resistant rubber.  
**Eye Protection:** Safety glasses or chemical splash goggles.  
**Other Protective Equipment:** Eyewash should be provided nearby

**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 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**

<b>Health</b>	<b>2</b>
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>B</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