

# MIGHTY MAC BRAND

## SPITFIRE *Bowl Cleaner*

### DESCRIPTION

A low acid bathroom cleaner formulated to remove lime and hard water deposits, soap scum, rust, gray and yellow stains from toilet bowls, urinals, and other acid resistant surfaces.

### DIRECTIONS

-DO NOT USE ON MARBLE, TERRAZZO, OR ALUMINUM. SPOT TEST ON UNKNOWN SURFACES.

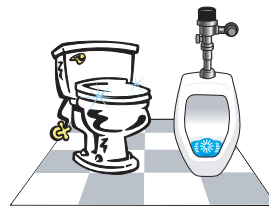
-FOR CLEANING TOILET BOWLS & URINALS: Flush- Then squirt product onto encrustation in hard to reach areas. Let stand 3 to 5 minutes. Swish with bowl mop or brush and flush.

-TO CLEAN BATHTUBS, SINKS, WASH BASINS, SHOWER STALLS, DRINKING FOUNTAINS, COFFEE URNS, CERAMIC TILE FLOORS AND OTHER ENAMELED AND PLATED SURFACES: Dilute 1 to 3 parts water and apply to wet all surfaces thoroughly with swab, mop, sponge, brush or cloth. Allow product to remain for at least 10 minutes, then rinse thoroughly with clear water.

WEAR RUBBER GLOVES AT ALL TIMES.

### PRODUCT SPECIFICATIONS

<b>Acid Content:</b>	9.0 ± 0.5%
<b>Color:</b>	Blue emulsion
<b>Odor:</b>	Wintermint
<b>Base:</b>	Hydrochloric acid
<b>pH:</b>	0.5 - 1.0
<b>Viscosity:</b>	Water thin
<b>Foam:</b>	Moderate
<b>Abrasives:</b>	None
<b>Inhibited:</b>	Yes
<b>Rust Removal:</b>	Excellent
<b>Detergency:</b>	Excellent
<b>Rinsability:</b>	Excellent
<b>Fumes:</b>	None
<b>Flash Point:</b>	None (waterbased)
<b>Biodegradability:</b>	Complete
<b>Storage/Stability:</b>	2 years
<b>Weight per Gallon:</b>	8.67 lbs./gal.
<b>Freeze / Thaw Stability:</b>	Keep from freezing



**Reorder#**  
**19-0915**



## SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

**Product Name:** Spitfire  
**Generic Name:** Bowl Cleaner  
**Chemical Family:** Acid 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			
Hydrochloric Acid	7647-01-0	5 to 10	C5 ppm	C5 ppm	N/A
Dimethyl Benzyl Ammonium Chloride	68424-85-1	0 to 5			
Nonionic Surfactant	9016-45-9	0 to 5			
Acrylic Latex	N/A	0 to 5			
Perfume Oils	N/A	0 to 5			
Dye	N/A	0 to 5			

## SECTION 3-PHYSICAL DATA

**Boiling Point (°F):** 214 F.      **Specific Gravity:** 1.041  
**Vapor Pressure:** 25mm Hg @ 68 F.      **Vapor Density (Air=1):** >1  
**% Volatile:** 90+      **pH:** 0.5-1.0  
**Solubility in Water:** Complete      **Evaporation Rate (Water=1):** <1  
**Physical Description:** Thin blue opaque liquid with pleasant odor.

## 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:** Hydrogen or chlorine gas.  
**Hazardous Polymerization:** None  
**Incompatibility (Materials to Avoid):** Strong alkalis or oxidizers. Contact with aluminum, soft metals and iron may generate hydrogen gas.

## SECTION 6-STORAGE AND HANDLING INFORMATION

Keep out of reach of children. For use by trained personnel only. Do not mix with alkali cleaners, oxidizers or other cleaning products. 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. Wash hands after each use. Avoid breathing of vapors. Use in well-ventilated area only. Avoid contact with aluminum, brass, iron.

## SECTION 7-HEALTH HAZARDS AND FIRST AID

**Effects of Overexposure:**  
**Skin:** Skin irritant. Prolonged or repeated contact may cause chemical burns.  
**Eyes:** Severe eye irritant. Liquid and mists may burn or injure eyes, causing cor-neal damage.  
**Inhalation:** Irritating to mucous membranes of the nose, throat, and lungs. Vapors may cause choking, burning sensation of throat and lungs, leading to irreversible damage.  
**Ingestion:** Irritating and corrosive to the mouth and throat. May cause headache, nausea, abdominal pain, vomiting, and diarrhea. Excessive amounts may cause collapse.  
**First Aid Procedures:**  
**Skin:** Remove contaminated clothing. Flush exposed area with large quantities of water followed by washing with mild soap. Seek medical attention if irritation persists.  
**Eyes:** Immediately 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:** Use in well-ventilated area.  
**Ventilation Requirements:** Provide mechanical exhaust to keep TLV of Section 2 ingredients below acceptable limit.  
**Protective Gloves:** Acid proof, rubber, or neoprene.  
**Eye Protection:** Safety glasses or chemical splash goggles.  
**Other Protective Equipment:** Eyewash, chemical resistant apron.

## 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: Compounds, cleaning liquid, (hydrochloric acid), 8, NA-1760, PG III  
FOR 1 GALLON CONTAINERS: Compounds, cleaning liquid, (hydrochloric acid), 8, NA-1760, PG III, (Limited Quantity)  
FOR CONTAINERS < 1 GALLON: ORM-D

## 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
Exempt	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