



Maintenance Solutions

# Brute

## High Acid Emulsion Bowl Cleaner



### For Use On:

Toilets Urinals  
Porcelain

### DESCRIPTION

A high acid cleaner formulated to remove scale, rust and hard water deposits, from toilet bowls and urinals. Contains 24% inhibited hydrochloric acid and specially selected detergents to quickly and completely attack the most stubborn deposits. The special inhibitors protect plumbing, once soils are flushed away.

### DIRECTIONS

#### **FOR INSIDE OF TOILET BOWLS AND URINALS ONLY.**

*DO NOT USE ON MARBLE, TERRAZZO, STAINLESS STEEL, CHROME, ALUMINUM OR PLASTICS. SPOT TEST ON UNKNOWN SURFACES.*

*FOR CLEANING TOILET BOWLS & URINALS:* Flush toilet and use swab mop to push water from the bowl over trap. Press swab mop against bowl to remove excess water, then saturate mop with bowl cleaner while holding bottle and applicator over bowl. Swab bowl or urinal completely making sure to get under the rim. Let stand for 10 minutes then flush. Rinse applicator completely.

**WEAR RUBBER GLOVES AND GOGGLES OR FACE SHIELD AT ALL TIMES.**

### PRODUCT SPECIFICATIONS

<b>Acid Content:</b>	24%	<b>Rust Removal:</b>	Excellent
<b>Color:</b>	Opaque	<b>Detergency:</b>	Good
<b>Odor:</b>	Acidic	<b>Rinsability:</b>	Good
<b>Base:</b>	Hydrochloric acid	<b>Flash Point:</b>	None (waterbased)
<b>pH:</b>	<1	<b>Biodegradability:</b>	Complete
<b>Viscosity:</b>	Water thin	<b>Storage/Stability:</b>	2 years
<b>Foam:</b>	Moderate	<b>Weight per Gallon:</b>	9.18 lbs./gal.
<b>Abrasives:</b>	None	<b>Freeze / Thaw Stability:</b>	Keep from freezing

Restroom Cleaners

## SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

**Supplier Name:**

Misco Products Corporation

**Supplier's Address:**

1048 Stinson Drive Reading, PA 19605

**Supplier's Phone #:** (610) 926-4106**Product Name:** Brute**Generic Name:** High Acid Emulsion Bowl Cleaner**Chemical Family:** Hydrochloric Acid/Detergent Blend**Formula:** Proprietary**Distributor's Name:****Distributor's Address:****Distributor's Phone #:**

## 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	24 min	5 ppm	5 ppm	N/A
Nonionic Surfactant	9016-45-9	0 to 5			
Benzalkonium Chloride	68424-85-1	0 to 5			

## SECTION 3-PHYSICAL DATA

**Boiling Point (°F):** 205 F.      **Specific Gravity:** 1.175  
**Vapor Pressure:** 33mm 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 white 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 gas formed on contact with metals. HCL vapors emitted when heated. Chlorine gas may form by electrolysis or oxidation.  
**Hazardous Polymerization:** None  
**Incompatibility (Materials to Avoid):** Corrosive to many materials. Strong alkalis or oxidizers, bleaching agents, amines and carbonates. Contact with metals, metal oxides, soft metals and iron may generate hydrogen gas.

## SECTION 6-STORAGE AND HANDLING INFORMATION

DANGER! POISON. ACID Corrosive. Causes chemical burns to eyes and skin. Harmful if inhaled. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Avoid breathing of vapors. Wear rubber gloves and protective eyewear when handling. 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. Wash hands after each use. Use in well-ventilated area only. Avoid contact with aluminum, brass, iron and strong alkaline cleaners or bleaches

## SECTION 7-HEALTH HAZARDS AND FIRST AID

**Effects of Overexposure:**  
**Skin:** Severe skin irritant. Prolonged or repeated contact will cause permanent chemical burns.  
**Eyes:** Severe eye irritant. Liquid and mists will burn or injure eyes, causing permanent corneal damage.  
**Inhalation:** Strong irritant to mucous membranes of the nose, throat, and lungs. Vapors may cause choking, burning sensation of throat and lungs, leading to irreversible damage. May be fatal. Chronic exposure may damage teeth.  
**Ingestion:** POISON Irritating and corrosive to the mouth and throat on immediate contact. May be fatal. Cause severe ulceration of mucous membranes.  
**First Aid Procedures:**  
**Skin:** Immediately remove contaminated clothing. Flush exposed area with large quantities of water followed by washing with mild soap. Seek medical attention immediately.  
**Eyes:** Immediately flush with large quantities of water for at least 15 minutes, holding eyelids open. Seek medical attention immediately.  
**Inhalation:** Get to fresh air. Seek medical attention immediately.  
**Ingestion:** Do not induce vomiting. Drink large quantities of water. Seek medical attention immediately.

## SECTION 8-SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** NIOSH approved acid-gas air purifying canister when used in confines or poorly ventilated areas  
**Ventilation Requirements:** Provide mechanical exhaust to keep TLV of Section 2 ingredient (Hydrochloric Acid) below acceptable limit.  
**Protective Gloves:** Full arm length acid proof, rubber, or neoprene.  
**Eye Protection:** Chemical splash goggles or full-face safety shield.  
**Other Protective Equipment:** Eyewash station should be made available near site where used. Chemical resistant apron should be worn when danger of splash contact will occur.

## SECTION 9-SPILL OR LEAK PROCEDURES

**Steps to be taken in Case Material is Released or Spilled:** Immediately evacuate all unessential personnel from area. Ventilate area well. Acquire special protection equipment as noted in Section 8. Absorb spill with inert material. Neutralize with soda ash or lime. 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. If disposed of in its purchased form, this product has the RCRA characteristic of corrosivity and would have an EPA Hazardous waste number of D002. 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 II  
FOR 1 GALLON CONTAINERS: Compounds, cleaning liquid, (hydrochloric acid), 8, NA-1760, PG II  
FOR CONTAINERS < 1 GALLON: ORM-D

**HMIS Hazardous Materials Identification System**

<b>Health</b>	<b>3</b>
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>C</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