




# Material Safety Data Sheet


WHMIS (Pictograms)

WHMIS (Classification)

HCS

	WHMIS CLASS D-1: Material causing immediate and serious toxic effects. WHMIS Class E: Corrosive liquid.	HCS CLASS: Corrosive liquid.
---	---	------------------------------

## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b> <b>Bol Maid</b>	<b>Code</b> 72
<b>Synonym</b> Disinfectant Cleaner for Porcelain/Toilet Bowls/Urinals	<b>CAS #</b> Not applicable.
<b>Chemical Family</b> Not available.	<b>Validation Date</b> 1/25/2001
<b>Chemical Formula</b> Not applicable.	<b>Print Date</b> 2/12/2001
<b>Manufacturer</b> Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	<b>In Case of Emergency</b> Chemtrec (800) 424-9300
<b>TSCA</b> TSCA Inventory: All components listed or are exempt from listing.	
<b>DSL</b> DSL : All components listed unless noted elsewhere on this MSDS	<b>Protective Clothing</b> 

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
1) Water	7732-18-5	0-100	Not available.	Not available.
2) Hydrochloric Acid	7647-01-0	9	STEL: 5	Not available.
3) Nonionic Surfactant	9016-45-9	0-5	Not available.	Not available.
4) Perfume Oil	119-36-8	0-5	Not available.	Not available.
5) Acrylic Emulsion	N/A	0-5	Not available.	Not available.
6) Nonionic Surfactant	61788-90-7	0-5	Not available.	ORAL (LD50): Acute: 4610
7) Nonionic Surfactant	66455-15-0	0-5	Not available.	mg/kg [Rat].
8) Amphoteric Surfactant	68298-20-4	0-5	Not available.	Not available.
9) Dye	N/A	0-5	Not available.	Not available.
10) Quaternary Ammonium Chloride	68424-95-3	0.05	Not available.	Not available.

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death.
<b>Potential Chronic Health Effects</b>	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

#### Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Have conscious person drink egg whites, gelatin solution, or if these are not available drink large quantities of water. Seek immediate medical attention.

#### Section 5. Fire Fighting Measures

<b>Products of Combustion</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	N/A
<b>Special Remarks on Fire Hazards</b>	N/A
<b>Special Remarks on Explosion Hazards</b>	N/A


#### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Chemical anti-splash goggles.
<b>Large Spill and Leak</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

#### Section 7. Handling and Storage

<b>Precautions</b>	Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Never add water to this product. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
<b>Incompatibility</b>	Strong alkalis, most metals, bleach.
<b>Storage</b>	Corrosive materials should be stored in a separate safety storage cabinet or room. Keep out of the reach of children. Not for use or storage in or around the home.

#### Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels.
<b>Personal Protection</b>	
<i>Eyes</i>	Splash goggles.
<i>Body</i>	
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves (impervious).
<b>Protective Clothing (Pictograms)</b>	
<b>Exposure Limits</b>	Not available.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Pleasant. (Strong.)
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH</b>	<1.5 [Acidic.]	<b>Color</b>	Milky Blue
<b>Boiling/Condensation Point</b>	214°F initial		
<b>Melting/Freezing Point</b>	Not available.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	1.04 (Water = 1)		
<b>Vapor Pressure</b>	25mm Hg @ 68°F		
<b>Vapor Density</b>	>1 (Air = 1)		
<b>Volatility</b>	95		
<b>VOC</b>	Not available.		
<b>Evaporation Rate</b>	<1		
<b>Odor Threshold</b>	Not available.		
<b>LogK<sub>ow</sub></b>	Not available.		
<b>Ionicity (in Water)</b>	Not available.		
<b>Dispersion Properties</b>	See solubility in water.		
<b>Solubility</b>	Easily soluble in cold water.		
<b>The Product is:</b>	May be combustible at high temperature.		
<b>Auto-ignition Temperature</b>	Not available.		
<b>Flash Points</b>	Not available.		
<b>Flammable Limits</b>	Not available.		
<b>Fire Hazards in Presence of Various Substances</b>	No specific information is available in our database regarding the flammability of this product in presence of various materials.		
<b>Explosion Hazards in Presence of Various Substances</b>	Not applicable		

**Section 10. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substances</b>	Strong alkalis, most metals, bleach.
<b>Hazardous Decomposition Products</b>	Will not occur.

### Section 11. Toxicological Information

<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 4610 mg/kg [Rat]. (Nonionic Surfactant).
<b>Acute Effects on Humans</b>	<p><i>Eyes</i> Very hazardous in case of eye contact (corrosive).</p> <p><i>Skin</i> Very hazardous in case of skin contact (corrosive). Skin contact may produce burns.</p> <p><i>Inhalation</i> Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract.</p> <p><i>Ingestion</i> Very hazardous in case of ingestion. May be fatal if swallowed. May cause burns to mouth, throat, and stomach.</p>
<b>Chronic Effects on Humans</b>	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark.
<b>Special Remarks on Chronic Effects on Humans</b>	No additional remark.



### Section 12. Ecological Information

<b>Ecotoxicity</b>	Not available.
<b>BOD5 and COD</b>	Not available.
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	Not available.
<b>Special Remarks on the Products of Biodegradation</b>	No additional remark.

### Section 13. Disposal Considerations

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	Not available.

### Section 14. Transport Information

<b>DOT (U.S.A) (Pictograms)</b>		
<b>TDG Classification</b>	Class 8: Corrosive material	
<b>PIN UN, Proper Shipping Name, PG</b>	Shipping name: CORROSIVE LIQUIDS, N.O.S. UNNA: UN1760 PG: II	
<b>Maritime Transportation</b>	Not available.	

Special Provisions for Transport

Not available.

### Section 15. Other Regulatory Information and Pictograms

**WHMIS (Classification)**

WHMIS CLASS D-1: Material causing immediate and serious toxic effects.  
WHMIS Class E: Corrosive liquid.



**Regulatory Lists**

No products were found.

**Other Regulations**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications**

**HCS (U.S.A.)**

HCS CLASS: Corrosive liquid.

**USA Regulatory Lists**

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Hydrochloric Acid

**DSD (EEC)**

R35- Causes severe burns.

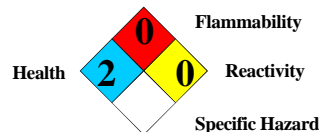
**International Regulations Lists**

No products were found.

**Hazardous Material Information System (U.S.A.)**

Health	2
Flammability	0
Reactivity	0
Personal Protection	B

**National Fire Protection Association (U.S.A.)**



### Section 16. Other Information

Validated by CRushton on 1/25/2001.

Verified by CRushton.

Printed 2/12/2001.

**Information Contact** Betco Corporation  
1001 Brown Avenue  
Toledo, Ohio 43607

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

Validated on 1/25/2001.

**Bol Maid**

Page: 5/5

**Continued on Next Page**