



### Safety Data Sheet Sections

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SECTION 1: IDENTIFICATION	
Product Trade Name:	MB Bowl Cleaner
Product SKU:	171
Recommended Use:	Acid Toilet Bowl and Urinal Cleaner
Restrictions on Use:	For Industrial and Institutional use only
Manufacturer Name:	MB Solutions
Manufacturer Address:	650 Evermeadow Road SW, Calgary, Alberta, T2Y-4X1
Manufacturer Phone Number:	<a href="tel:800-663-9925">800-663-9925</a>
Email Address of Competent Person Responsible for the SDS:	<a href="mailto:regulatory@projectclean.com">regulatory@projectclean.com</a>
Emergency Phone Number/ 24-Hour Number:	For Transportation Emergencies: Canutec <a href="tel:613-996-6666">613-996-6666</a> Emergency Response Services: Chemtrec <a href="tel:800-424-9300">800-424-9300</a>

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SECTION 2: HAZARD IDENTIFICATION	
Physical Hazards:	CORROSIVE TO METALS – Category 1
Health Hazards:	SKIN CORROSION/IRRITATION – Category 1
	EYE DAMAGE/IRRITATION – Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 3
Symbol:	
Signal word:	DANGER
Hazard Statement:	H290 May be corrosive to metals.
	H314 Causes severe skin burns and eye damage.
	H318 Causes serious eye damage.
	H335 May cause respiratory irritation.
PRECAUTIONARY STATEMENTS	
Prevention:	P234 Keep only in original packaging.
	P260 Do not breathe dusts or mists.
	P264 Wash hands or affected area thoroughly after handling.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
	P271 Use only outdoors or in a well-ventilated area.

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### SECTION 2: HAZARD IDENTIFICATION

<b>Responses:</b>	P390 Absorb spillage to prevent material-damage.
	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P302 + P361 + P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
	P363 Wash contaminated clothing before reuse.
	P304 + P340 + P316 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately.
	P321 Specific treatment (see supplemental first aid information on this label).
	P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
<b>Storage:</b>	P405 Store locked up.
	P406 Store in a corrosion resistant container with a resistant inner liner.
	P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal:</b>	P501 Dispose of contents/ container to an approved waste disposal plant.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Approx. Wt.%	CAS Number
Hydrochloric Acid	10-30	7647-01-0
Alcohols, C9-C11, ethoxylated	1-5	68439-46-3

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### SECTION 4: FIRST-AID MEASURES

<b>General Information:</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
<b>Inhalation:</b>	Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.
<b>Skin Contact:</b>	Immediately flush exposed area with plenty of water for at least 20 minutes. If irritation persists, or if contact has been prolonged, obtain medical attention. Remove contaminated clothing and launder before reuse.
<b>Eye Contact:</b>	Immediately flush with running water for at least 15-30 minutes, holding eyelids open during flushing. Remove contact lenses, if present and easy to do. If irritation persists, repeat flushing and obtain medical attention immediately.

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**SECTION 4: FIRST-AID MEASURES**

<b>Ingestion:</b>	Do not induce vomiting. If the victim is fully conscious, give plenty of clean water to drink to dilute product. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing. Call a Physician.
<b>Self-Protection of the First Aider:</b>	Remove all sources of ignition. Ensure that first aid personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
<b>Most Important Symptoms/ Effects, Acute and Delayed:</b>	<b>Ingestion:</b> Burn mouth and throat. May cause serious gastrointestinal irritation or ulceration. <b>Inhalation:</b> Severe irritation to the upper respiratory tract. <b>Eyes and skin:</b> May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Brief contact may cause skin burns.
<b>If irritation occurs or persists, get medical attention.</b>	

[Back to Top](#)**SECTION 5: FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media:</b>	Use extinguishing media suitable for surrounding fires.
<b>Unsuitable Extinguishing Media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Flammability:</b>	Not flammable.
<b>Flash Point:</b>	Not flammable.
<b>Special Firefighting Procedures:</b>	Wear full protective equipment including a NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situation. Use water spray to cool all nearby fire exposed surfaces.
<b>Unusual Fire / Explosion Hazards:</b>	Contact with reactive metals may produce flammable/explosive hydrogen gas.
<b>Hazardous Decomposition Products:</b>	When heated to decomposition, emits toxic hydrogen chloride fumes and will react with water or steam to produce heat, toxic and corrosive fumes. Thermal oxidative decomposition produces toxic chlorine fumes and explosive hydrogen gas.

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<b>Environmental Protection Precautions:</b>	Do not release to the environment or water source.
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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>Steps to be Taken in Case Material is Released or Spilled:</b>	Wear protective equipment including respiratory protection. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers. Reuse if possible, otherwise dispose of recovered material in accordance with all local, provincial or federal regulations.
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<b>Precautions to be Taken in Handling and Storage:</b>	Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Avoid breathing acid vapor/mist. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Keep out of reach of children. Store at temperatures below 30°C (86°F). Do not store in metal containers.
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OSHA (PEL): N/A	ACGIH TLV: N/A	Other exposure limit: N/A
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**INDIVIDUAL PROTECTION MEASURES / PERSONAL PROTECTIVE EQUIPMENT**

<b>Appropriate Engineering Controls:</b>	Good general ventilation or local exhaust ventilation for spray/mist generated in confined areas.
<b>Skin Protection:</b>	Butyl rubber, neoprene, latex or nitrile gloves. Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Appropriate footwear should be selected based on the task being performed and the risks involved.
<b>Eye and Face Protection:</b>	Use chemical goggles, safety glasses or face shield.
<b>Respiratory Protection:</b>	Use NIOSH/MSHA approved respirator (for hydrochloric acid) when working with concentrated liquid.
<b>Other Protective Equipment:</b>	Eye wash, safety shower and full protective clothing recommended in the immediate work area.

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<b>Appearance:</b>	White opaque liquid.
<b>Odour:</b>	Slight pungent odor.
<b>Odour threshold:</b>	N/A
<b>pH:</b>	< 1.0
<b>Melting point/Freezing point:</b>	N/A

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Initial boiling point and boiling range:	N/A
Flash Point:	Not flammable.
Evaporation Rate (Water=1):	N/A
Flammability:	Not flammable.
Upper/Lower flammability or explosive limits:	None
Vapour pressure:	N/A
Vapour density:	N/A
Relative density/Specific gravity (Water = 1):	1.13 g/ml
Solubility(ies):	Soluble in water.
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	Not flammable.
Decomposition temperature:	N/A
Viscosity:	Thin like water.
VOCs:	N/A

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## SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Very corrosive to metals, releasing flammable hydrogen gas. Reacts violently with bases releasing heat. Reacts with reducing agents releasing heat and flammable hydrogen gas. Reacts with oxidizing agents releasing heat and toxic, corrosive chlorine gas. Reacts with cyanides releasing toxic cyanide gas. Reacts with sulphides releasing toxic hydrogen sulphide gas. Contact with explosives may cause detonation.
Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	Contact with metals, bases, oxidizing, reducing agents.
Conditions to avoid:	Temperatures above 30°C and below 5°C. Avoid contact with incompatible materials.
Incompatibility:	Bases, oxidizing agents, reducing agents, reactive metals, ammonia.
Hazardous Decomposition Products:	Carbon oxides, hydrogen chloride gas, chlorine gas, hydrogen gas.

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## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Likely routes of exposure:</b>	Skin and eye contact, inhalation, ingestion.
<b>Symptoms:</b>	Acute: Irritation and corrosion to eyes, skin and respiratory system. Danger of severe damage to eyes and lungs. Ingestion may cause damage to the gastrointestinal system.
<b>Acute Toxicity Estimates:</b>	LD <sub>50</sub> (oral) > 2000 mg/kg
	LD <sub>50</sub> (dermal) > 2000 mg/kg
	ATE <sub>mix</sub> (inhalation, mist) 0.05-0.5 mg/L
<b>Skin Sensitization:</b>	Data available on components indicates no potential skin sensitization.
<b>Germinal Cell Mutagenicity:</b>	Data available on components indicates no potential germinal cell mutagenicity.
<b>Reproductive Toxicity:</b>	Data available on components indicates no potential reproductive toxicity.
<b>Carcinogenicity:</b>	Not listed by NTP, IARC, OSHA, ACGIH. The Department of Health and Human Services (DHHS), the International Agency for Research on Cancer (IARC), and the EPA have not classified hydrogen chloride as to its carcinogenicity. IARC considers hydrochloric acid to be not classifiable as to its carcinogenicity to humans.
<b>Aspiration Hazard:</b>	Data available on components indicates no potential aspiration hazard.

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## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to Fresh Water Algae:</b>	<b>Hydrogen Chloride (CAS# 7647-01-0):</b> EC <sub>50</sub> (Desmodesmus subspicatus (green algae)) 0.0492 mg/L, Exposure Time: 72 h, Test Type: N/A
	<b>Alcohol Ethoxylate (CAS# 68439-46-3):</b> EC <sub>50</sub> (algae) 10-100 mg/L, Exposure Time: 72 h, Test Type: N/A
<b>Toxicity to Fish Species:</b>	<b>Hydrogen Chloride (CAS# 7647-01-0):</b> LC <sub>50</sub> (Cyprinus carpio (Common Carp)) 4.92 mg/L, Exposure Time, 96 h, Test Type: N/A
	<b>Alcohol Ethoxylate (CAS# 68439-46-3):</b> LC <sub>50</sub> (fish) 5-10 mg/L, Exposure Time, 96 h, Test Type: N/A
<b>Toxicity to Aquatic Invertebrates:</b>	<b>Hydrogen Chloride (CAS# 7647-01-0):</b> EC <sub>50</sub> (Shrimp): 100-300 mg/L, Exposure Time: 48 h, Test Type: N/A
	<b>Alcohol Ethoxylate (CAS# 68439-46-3):</b> EC <sub>50</sub> (Daphnia magna (water flea)): 5-10 mg/L, Exposure Time: 48 h, Test Type: N/A
<b>Persistence and degradability:</b>	N/A

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**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>Recommended Waste Disposal Methods:</b>	Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.
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**SECTION 14: TRANSPORT INFORMATION**

<b>Canadian TDG UN Number:</b>	1789
<b>UN Proper Shipping Name:</b>	HYDROCHLORIC ACID
<b>Transport Hazard Class(es):</b>	8
<b>Packing Group:</b>	II
<b>Environmental Hazards:</b>	Not available.
<b>Special Precautions for User:</b>	Not available.
<b>Additional Information:</b>	Limited Quantity Index: 1L

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**SECTION 15: REGULATORY INFORMATION**

<p><b>HAZARD RATING INFORMATION</b></p> <p>4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant</p>	<p><b>HMIS</b></p> <table border="1"> <tr> <td style="background-color: #0056b3; color: white;">3</td> <td>Health</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">0</td> <td>Flammability</td> </tr> <tr> <td style="background-color: #ffff00; color: black;">0</td> <td>Reactivity</td> </tr> <tr> <td style="background-color: #cccccc; color: black;">C</td> <td>Personal protection</td> </tr> </table> <p>C = Safety Glasses + Gloves + Apron</p>	3	Health	0	Flammability	0	Reactivity	C	Personal protection
3	Health								
0	Flammability								
0	Reactivity								
C	Personal protection								
<p><b>HMIS Protection Group C</b></p>									
<p>All pertinent hazard information has been provided in this SDS, per the requirements of the U.S. Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, and the Canadian Workplace Hazardous Materials Identification System Standards (CPR 4).</p>									



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SECTION 16: OTHER INFORMATION	
ACRONYM LIST	
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ATE</b>	Acute Toxicity Estimate
<b>CAS</b>	Chemical Abstracts Service
<b>CFR</b>	Code of Federal Regulations
<b>DSL/NDSL</b>	Domestic Substances List/ Non-domestic Substance List
<b>EC<sub>50</sub></b>	Half maximal effective concentration
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>LC<sub>50</sub></b>	Lethal concentration, 50%
<b>LD<sub>50</sub></b>	Lethal dose, 50%
<b>MSHA</b>	Mine Safety and Health Administration
<b>N/A</b>	Not Available
<b>NIOSH</b>	The National Institute for Occupational Safety and Health
<b>N.O.S.</b>	Not Otherwise Specified
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>PNOC</b>	Particulates not otherwise classified
<b>PMMCC</b>	Pensky-Martens Closed Cup
<b>P<sub>ow</sub></b>	Partition Coefficient Octanol: Water
<b>SDS</b>	Safety Data Sheets
<b>STOT – SE</b>	Specific Target Organ Toxicity – Single Exposure
<b>STOT – RE</b>	Specific Target Organ Toxicity – Repeated Exposure
<b>TDG</b>	Transportation of Dangerous Goods
<b>TLV</b>	Threshold Limit Value
<b>UN</b>	United Nations
<b>VOCs</b>	Volatile Organic Compounds
<b>WEL</b>	Workplace Exposure Limit
<b>WHMIS</b>	Workplace Hazardous Materials Information System

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It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. Project Clean Inc. (formerly Maxim Chemical International Inc.) will accept no liability for damages or loss incurred from the improper handling and use of this product.

The information provided in the Safety Data Sheet has been obtained from current sources and is believed to be reliable.