



# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

**Product name** Acidic Toilet Bowl Cleaner  
**Product code** ZU1040  
**Date of issue** 01/29/10 **Supersedes** 10/19/07

### Emergency Telephone Numbers

**For MSDS Information:**  
 Compliance Services 404-352-1680

**For Medical Emergency**  
 (877) 541-2016 Toll Free - All Calls Recorded

**For Transportation Emergency**  
 CHEMTREC: (800) 424-9300 - All Calls Recorded  
 In the District of Columbia (202) 483-7616

### Prepared By

Compliance Services  
 1420 Seaboard Industrial Blvd.  
 Atlanta, GA 30318

## Section 2. Hazards Identification

### Emergency overview

**DANGER**

CAUSES EYE, SKIN AND MUCOUS MEMBRANE BURNS.  
 HARMFUL IF SWALLOWED.

\*Hazard Determination System (HDS): Health, Flammability, Reactivity



**NOTE:** MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

### Acute Effects

### Routes of Entry

Eye contact. Dermal contact. Inhalation. Ingestion.

#### Eyes

Causes eye burns. Direct contact with the eyes can cause irreversible damage, including blindness.

#### Skin

Prolonged contact can cause severe irritation or even burns. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

#### Inhalation

May cause irritation of respiratory tract, coughing, shortness of breath.

#### Ingestion

Harmful if swallowed. May cause burns to mouth, throat and stomach.

### Chronic effects

No known chronic effects from exposure.

### Carcinogenicity

Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

**Additional Information: See Toxicological Information (Section 11)**

## Section 3. Composition/Information on Ingredients

### Name of Hazardous Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
HYDROCHLORIC ACID; muriatic acid; hydrogen chloride; HCl	7647-01-0	5 - 15
SULFAMIC ACID; amidosulfonic acid; amidosulfuric acid	5329-14-6	1 - 5
QUATERNARY AMMONIUM CHLORIDES; blend of alkyl dimethylbenzyl ammonium chlorides, alkyl dimethyl ethylbenzyl ammonium chlorides, and ethanol	85409-23-0; 68391-01-5	1 - 5

## Section 4. First Aid Measures

### Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

### Skin Contact

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. Chemical burns must be treated promptly by a physician. Get medical attention.

### Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If irritation persists, get medical attention.

### Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Section 5. Fire Fighting Measures**

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



<b>Flash Point</b>	None.
<b>Flammable Limits</b>	Not applicable.
<b>Flammability</b>	Non-combustible.
<b>Fire hazard</b>	May decompose to form toxic/corrosive gases.
<b>Fire-Fighting Procedures</b>	Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment.

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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**Section 7. Handling and Storage**

<b>Handling</b>	Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.
<b>Storage</b>	Store in accordance with local regulations. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep out of the reach of children.

**Section 8. Exposure Controls/Personal Protection****Product name**

HYDROCHLORIC ACID; muriatic acid; hydrogen chloride; HCl

**Exposure limits**

ACGIH TLV/OSHA PEL (United States).

CEIL: 5 ppm 8 hour(s).

OSHA PEL (United States).

CEIL: 7 mg/m<sup>3</sup> 8 hour(s).**Personal Protective Equipment (PPE)**

<b>Eyes</b>	Splash goggles.
<b>Body</b>	Wear appropriate protective clothing to prevent skin contact. Rubber gloves.
<b>Respiratory</b>	Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid.	<b>Color</b>	Green. [Dark]
<b>pH</b>	<1 [Acidic.]	<b>Odor</b>	Minty / Pine.
<b>Boiling Point</b>	100°C (212°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1.035	<b>Vapor Density</b>	Not determined.
<b>Solubility</b>	Soluble in water in any proportion.	<b>Evaporation Rate</b>	Not determined.
		<b>VOC (Consumer)</b>	0 (g/l).

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive or incompatible with the following materials: Bleaching agents, oxidizing materials, metals and alkalis.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	Ammonia, carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> etc.), sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> etc.)

**Section 11. Toxicological Information****Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Hydrochloric Acid	LD50 Oral	Rabbit	900 mg/kg	-
	LC50 Inhalation Vapor	Rat	3124 ppm	1 hours
Quaternary Ammonium Chlorides	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>500 mg/kg	-



**Section 12. Ecological Information****Environmental Effects** No known significant effects or critical hazards.**Aquatic Ecotoxicity**

Not available.

**Section 13. Disposal Considerations****Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

**Waste Stream** Code: D002  
Classification: - (Hazardous waste.)  
Origin: - (RCRA waste.)**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
<b>DOT Classification</b>	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid) or Consumer commodity ORM-D in limited quantities	Class 8: Corrosive liquid.	II	
<b>TDG Classification</b>	UN3264	Corrosive liquid, n.o.s. (Hydrochloric Acid)	TDG Class 8: Corrosive liquid.	II	
<b>IMDG Class</b>	Not available.	Not available.	Not available.	-	

**NOTE:** DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG\* : Packing group

**Section 15. Regulatory Information****U.S. Federal Regulations**SARA 313 toxic chemical notification and release reporting:  
No products were found.**Clean Water Act (CWA) 307:** No products were found.**Clean Water Act (CWA) 311:** Hydrochloric Acid (RQ 5,000 lbs)**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

**State Regulations****California Prop 65** No products were found.**Canada****WHMIS (Canada)**Class D-1B: Material causing immediate and serious toxic effects (Toxic).  
Class D-2B: Material causing other toxic effects (Toxic).  
Class E: Corrosive liquid.**Section 16. Other Information***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.*\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.