



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	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.)



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

Section 6. Accidental Release Measures

Spill Clean up	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

Handling	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.
Storage	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/m³ 8 hour(s).**Personal Protective Equipment (PPE)**

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

**Section 9. Physical and Chemical Properties**

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

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: Bleaching agents, oxidizing materials, metals and alkalis.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Ammonia, carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ etc.), sulfur oxides (SO ₂ , SO ₃ 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
DOT Classification	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid) or Consumer commodity ORM-D in limited quantities	Class 8: Corrosive liquid.	II	
TDG Classification	UN3264	Corrosive liquid, n.o.s. (Hydrochloric Acid)	TDG Class 8: Corrosive liquid.	II	
IMDG Class	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.