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.

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

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 immediately.

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 3. Composition/Information on Ingredients

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

Section 4. First Aid Measures
### Section 5. Fire Fighting Measures

**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.

### 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.
- **pH**: <1 [Acidic.]
- **Boiling Point**: 100°C (212°F)
- **Specific Gravity**: 1.035
- **Solubility**: Soluble in water in any proportion.

- **Color**: Green. [Dark]
- **Odor**: Minty / Pine.
- **Vapor Pressure**: Not determined.
- **Vapor Density**: Not determined.
- **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, CO₂), nitrogen oxides (NO, NO₂ etc.), sulfur oxides (SO₂, SO₃ etc.)

### Section 11. Toxicological Information

**Acute Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>LD50 Oral Rabbit</td>
<td>900 mg/kg</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor Rat</td>
<td>3124 ppm</td>
<td>1 hours</td>
<td></td>
</tr>
<tr>
<td>Quaternary Ammonium Chlorides</td>
<td>LD50 Dermal Rabbit</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral Rat</td>
<td>&gt;500 mg/kg</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>
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

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

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.