Safety Data Sheet

Zep Inc.
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Section 1. Chemical Product and Company Identification

Product name ACID BATHROOM & SHOWER CLEANER

Product use Bathroom and Shower Cleaner.

Product code R360

Date of issue 06/25/12 **Supersedes** 05/31/12

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-793-7776

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

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

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DANGER!

CAUSES EYE BURNS. CAUSES RESPIRATORY TRACT AND SKIN IRRITATION. 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

Routes of Entry Dermal contact. Eye contact. Inhalation.

Eyes Causes eye burns. Direct contact with the eyes can cause irreversible damage, including blindness. Inflammation of the eye is characterized by redness, watering and itching.

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

Inhalation Material is irritating to mucous membranes and upper respiratory tract. Exposure can cause coughing, chest pains and difficulty in breathing.

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

Chronic effects Not available.

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

Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
urea hydrochloride	506-89-8	50 - 60
Hydroxyacetic Acid; glycollic acid	79-14-1	5 - 15
hydrochloric acid; hydrogen chloride	7647-01-0	1 - 10
Alcohols, C10-14, ethoxylated	66455-15-0	1 - 5

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact Flush affected area immediately with large amounts of water for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation occurs.

Inhalation Move exposed person to fresh air. If irritation persists, get medical attention.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. 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 Not applicable.

Flammable Limits Not available.

Flammability Non-combustible.

Fire hazard In a fire or if heated, a pressure increase will occur and the container may burst.

Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire.

Section 6. Accidental Release Measures

Spill Clean up Spills are unlikely due to packaging. Small spills can be taken up with an absorbent and placed in clean dry containers for later disposal. Note: see section 8 for personal protective equipment and section 13 for waste disposal.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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. Wash thoroughly after handling.

Storage Store between the following temperatures: 4.44 to 48.9°C (40 to 120°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. 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.

Section 8. Exposure Controls/Personal Protection

Product name	Exposure limits
Hydrogen chloride	**ACGIH TLV (United States, 2/2010).** C: 2 ppm **OSHA PEL 1989 (United States, 3/1989).** CEIL: 5 ppm CEIL: 7 mg/m³ **NIOSH REL (United States, 6/2009).** CEIL: 5 ppm CEIL: 7 mg/m³ **OSHA PEL (United States, 6/2010).** CEIL: 5 ppm CEIL: 7 mg/m³

Personal Protective Equipment (PPE)

Eyes Splash goggles.

Body Neoprene, Nitrile or 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. [Clear.]

pH <1

Boiling Point 100°C (212°F)

Specific Gravity 1.196

Solubility Easily soluble in the following materials: cold water and hot water.

Color Green.

Odor Pleasant.

Vapor Pressure Not available.

Vapor Density Not available.

Evaporation Rate 1 (Water = 1)

VOC (Consumer) 9.1 % (w/w) 0.906 lbs/gal (108.6 g/l)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive or incompatible with the following materials: oxidizing materials and alkalis. Incompatible with ammonia.

Hazardous Polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous Decomposition Products May release dangerous gases (chlorine). carbon oxides (CO, CO_2)

Section 11. Toxicological Information

Acute Toxicity

glycollic acid	LC50 Inhalation Vapor	Rat	7.1 ug/m3	4 hours
	LD50 Oral	Rat	1938 mg/kg	-

Section 12. Ecological Information

Environmental Effects Not available.

Aquatic Ecotoxicity

Hydrogen chloride	-	Acute LC50 240000 ug/L Marine water	Crustaceans - Green or Europeon shore crab - Carcinus maenas - Adult	48 hours
	-	Acute LC50 282000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours

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 - Corrosivity
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. (urea hydrochloride)	8	II	
IMDG Class	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (urea hydrochloride)	8	II	

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:

Product name

No products were found.

Clean Water Act (CWA) 311: Hydrogen chloride
Clean Air Act (CAA) 112 regulated toxic substances: Hydrogen chloride
All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65 No products were found.

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.*