Safety Data Sheet



Zep, Inc. 1310 Seaboard Industrial Blvd. Atlanta, GA 30318 1-877-I-BUY-ZEP (428-9937) www.zep.com

Section 1. Chemical Product and Company Identification

Product name Zep-O-Clean Toilet Cleaner. Product use

1389 **Product code**

Date of issue 11/27/12 Supersedes None.

Emergency Telephone Numbers

For MSDS Information:

Compliance Services 1-877-I-BUY-ZEP (428-9937)

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!

POISON. CAUSES EYE AND SKIN 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 Routes of Entry Dermal contact. Eye contact. Inhalation.

Corrosive to eyes. Causes burns. Direct contact with the eyes can cause irreversible damage, including **Eyes**

blindness. Inflammation of the eye is characterized by redness, watering and itching.

Skin Corrosive to the skin. Causes skin burns. Skin inflammation is characterized by itching, scaling, reddening

or, occasionally, blistering.

Inhalation May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure can

cause coughing, chest pains and difficulty in breathing.

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

Chronic effects Contains material which may cause damage to the following organs: upper respiratory tract, teeth.

Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms,

such as redness, blistering, dermatitis etc. Repeated eye exposure may produce chronic

inflammation of the eye or corneal damage.

Carcinogenicity

No known significant effects or critical hazards.

Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

% by Weight **CAS** number hydrochloric acid; hydrogen chloride 7647-01-0 20 - 30

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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 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. Clean shoes thoroughly before reuse. 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. Loosen tight clothing such as a collar, tie, belt or waistband.

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

Get medical attention immediately.

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

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 Use an extinguishing agent suitable for the surrounding fire.

Procedures

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, 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

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in Handling

areas where this material is handled, stored and processed. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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 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. Do not store in unlabeled containers. Use appropriate containment to

avoid environmental contamination. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name Exposure limits

hydrochloric acid; 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 Chemical splash goggles or face shield.

Body Neoprene, Nitrile or Rubber gloves. Wear apron or coverall if there

is a risk of exposure to splashes.

Respiratory Use with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

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Section 9. Physical and Chemical Properties

Physical State
pHLiquid.Color Off-white. Opaque.Physical State
pH<2</td>Odor Acidic. Pungent.Boiling Point107.2°C (225°F)Vapor Pressure Not available.Specific Gravity1.115Vapor Density Not available.

Solubility Easily soluble in the following materials: cold water **Evaporation Rate** Not available.

and hot water.

VOC (Consumer) 0.01 % (w/w) 0.001 lbs/gal (0.067 g/l)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive or incompatible with the following materials: oxidizing materials, metals and alkalis.

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

Hazardous Decomposition Products carbon oxides (CO, CO₂). Hydrogen chloride (HCl). Phosgene gas.

Section 11. Toxicological Information

Acute Toxicity

hydrochloric acid LC50 Inhalation Gas. Rat 1562 ppm 4 hours LD50 Dermal Rabbit >5010 mg/kg - LD50 Oral Rat 700 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 48 hours

crab - Carcinus maenas - Adult
- Acute LC50 282000 ug/L Fresh water Fish - Western mosquitofish - Gambusia 96 hours

affinis - Adult

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)	8	II	
IMDG Class	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid). Marine pollutant (Nonylphenol, ethoxylated)	8	=	¥2>

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

Hydrogen chloride

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.

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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.