



Superior Solutions

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

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP CERTEZA
Product use Grout Cleaner
Product code 5048
Date of issue 10/01/04 **Supersedes**

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
INFOTRAC: (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

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ISD 129 MONTEVIDEO MIDDLE SCHOOL
2001 WILLIAMS AVE
MONTEVIDEO MN 56265-2200

Printing date: 12/02/11

Prepared By
Compliance Services Group
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
HYDROCHLORIC ACID; muriatic acid; hydrogen chloride	7647-01-0	5-15	ACGIH (United States). TWA: 5 ppm OSHA (United States). CEIL: 5 ppm
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	<5	ACGIH TLV (United States). Skin TWA: 20 ppm 8 hour(s). Form: Vapor OSHA PEL (United States). Skin TWA: 25 ppm 8 hour(s). Form: Vapor

Section 3. Hazards Identification

HMIS

Acute Effects

Routes of Entry Skin Contact. Eye contact. Inhalation.
Ingestion.

Skin Corrosive to skin on contact. Skin contact can produce inflammation and blistering. May be harmful if absorbed through skin.

Eyes Corrosive to eyes. Direct contact with the eyes can cause irreversible damage, including blindness.

Inhalation Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath.

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

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

Carcinogenic Effects

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

Chronic Effects

Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection. Repeated or prolonged exposure to the substance can produce damage to liver, kidneys, and red blood cells.

See Toxicological Information (section 11)

Health	3
Physical	0
Reactivity	0
Personal Protection	C

Section 4. First Aid Measures

Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

Section 5. Fire Fighting Measures**Flash Point** Not applicable.

Not applicable.

**Flammability** Not applicable.**Fire hazard****Fire-fighting procedures**

Use extinguishing media suitable for surrounding materials. Do not release runoff from fire to sewers or waterways. Wear special protective clothing and positive pressure, self-contained breathing apparatus.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

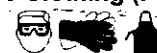
Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Avoid inhalation of vapor, spray or mist. Use with adequate ventilation. Do not ingest. Do not reuse product container. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. This product should be stored away from oxidizing materials and strong bases. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)**

Eyes Splash goggles.



Body Wear appropriate protective clothing to prevent skin contact: Chemical-resistant gloves. Water-resistant footwear. Chemical resistant apron.

Respiratory Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. If concentrations exceed recommended exposure levels, wear an approved/certified respirator until engineering controls are achieved.

Section 9. Physical and Chemical Properties

Physical State Thin liquid

Color Green. (Light.)

pH < 1.0

Odor Lemongrass.

Boiling Point 100°C (212°F)

Vapor Pressure Not available.

Specific Gravity 1.06 (Water = 1)

Vapor Density Not available.

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

Evaporation Rate 1 compared with Water
VOC (Consumer) 2.0%

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive with oxidizing agents, alkalis.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products Hydrogen Chloride (HCl), Chlorine gas, Phosgene gas.

Section 11. Toxicological Information**United States****Acute toxicity****Section 12. Ecological Information**

Ecotoxicity Not available.

Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Code: D002

Classification: - (Hazardous waste.)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid)

DOT Classification Class 8: Corrosive liquid.

UN number 3264

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.

TDG Classification TDG Class 8: Corrosive liquid.

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Hydrochloric Acid

Ethylene Glycol Monobutyl Ether (Glycol Ethers)

Clean Water Act (CWA) 311: Hydrochloric Acid

Clean Air Act (CAA) 112 regulated toxic substances: Ethylene Glycol Monobutyl Ether (Glycol Ethers)

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

State Regulations**WHMIS (Canada)**

Class D-1A: Material causing immediate and serious toxic effects.(Very 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.