



ZEP Manufacturing Company
 Acuity Specialty Products Group, Inc.
 P.O. Box 2015
 Atlanta, GA 30301
 1-877-I-BUY-ZEP (428-9937)

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:
 Acuity Specialty Products Group, Inc.
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
 INFOTRAC:
(877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency
 CHEMTREC:
(800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Printing date: 10/01/04

Prepared by Compliance Services Group
 Acuity Specialty Products 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

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 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.

HMIS

Health	3
Fire Hazard	0
Reactivity	0
Personal Protection	C

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

Chronic Effects Repeated or prolonged exposure to spray 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)

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 large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.	Flammable Limits	Not applicable.
Flammability	Not applicable.		
Fire Hazard	May release dangerous gases (chlorine) when exposed to heat or flame.		
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, or absorb with an inert dry material and place in an appropriate waste disposal container.
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Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors and spray 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 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	Amber. (Light.)
pH	< 1.0	Odor	Sweet.
Boiling Point	100°C (212°F)	Vapor Pressure	Not available.
Specific Gravity	1.06 (Water = 1)	Vapor Density	Not available.
Solubility	Easily soluble in cold water, hot water.	Evaporation Rate	1 compared to 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

Toxicity to Animals	Hydrochloric Acid:
	ORAL (LD50): Acute: 900 mg/kg [Rat].
	VAPOR (LC50): Acute: 4701 ppm 0.5 hour(s) [Rat].

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.)
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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

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)
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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.