



Zep Commercial Sales & Service  
 1310 Seaboard Industrial Blvd.  
 Atlanta, GA 30318  
 1-888-805-HELP (4357)  
 www.zepcommercial.com

# Safety Data Sheet

## Section 1. Chemical Product and Company Identification

Product name **Grout Cleaner & Whitener**  
 Product code **ZU1046**  
 Date of issue **10/25/12**      **Supersedes 03/14/11**

### 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

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

**DANGER**

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CAUSES EYE AND SKIN BURNS.  
 HARMFUL IF ABSORBED THROUGH SKIN.  
 MAY BE FATAL 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

Eye contact. Absorbed through skin. Inhalation. Ingestion.

- 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** Skin contact may produce burns. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.
- Inhalation** Irritating to respiratory system. Inhalation of high concentrations of vapor may affect the central nervous system. Exposure can cause coughing, chest pains and difficulty in breathing.
- Ingestion** May be fatal 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, skin, eyes, teeth. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

**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

<u>Name of Hazardous Ingredients</u>	<u>CAS number</u>	<u>% by Weight</u>
urea	57-13-6	5 - 15
hydrochloric acid; hydrogen chloride	7647-01-0	1 - 10
Alkyl(C9-11) alcohol, ethoxylated	68439-46-3	1 - 5

**Section 4. First Aid Measures**

- 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.
- 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 5. Fire Fighting Measures**

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



- Flash Point** None.
- Flammable Limits** Not available.
- 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. 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.
- 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. Keep out of the reach of children.

**Section 8. Exposure Controls/Personal Protection****Product name**

urea

hydrochloric acid; hydrogen chloride

**Exposure limits**

AIHA WEEL (United States, 5/2010).

TWA: 10 mg/m<sup>3</sup> 8 hour(s).

ACGIH TLV (United States, 2/2010).

C: 2 ppm

OSHA PEL 1989 (United States, 3/1989).

CEIL: 5 ppm

CEIL: 7 mg/m<sup>3</sup>

NIOSH REL (United States, 6/2009).

CEIL: 5 ppm

CEIL: 7 mg/m<sup>3</sup>

OSHA PEL (United States, 6/2010).

CEIL: 5 ppm

CEIL: 7 mg/m<sup>3</sup>**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**

<b>Physical State</b>	Liquid. [Clear.]	<b>Color</b>	Colorless to light yellow.
<b>pH</b>	<1	<b>Odor</b>	Sassafras
<b>Boiling Point</b>	100°C (212°F)	<b>Vapor Pressure</b>	Not available.
<b>Specific Gravity</b>	1.06	<b>Vapor Density</b>	Not available.
<b>Solubility</b>	Easily soluble in the following materials: cold water.	<b>Evaporation Rate</b>	Not available.
		<b>VOC (Consumer)</b>	1 % (w/w) 0.0897 lbs/gal (10.8 g/l)

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive or incompatible with the following materials: Bleaching agents, oxidizing materials, metals and alkalis.
<b>Hazardous Polymerization</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Hazardous Decomposition Products</b>	Ammonia, carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> etc.)

**Section 11. Toxicological Information****Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
urea	LD50 Oral	Rat	8471 mg/kg	-
Alkyl(C9-11) alcohol, ethoxylated	LD50 Oral	Rat	1378 mg/kg	-

**Section 12. Ecological Information**

**Environmental Effects** Not available.

**Aquatic Ecotoxicity**




Product/ingredient name	Test	Result	Species	Exposure
urea	-	Acute EC50 3910000 ug/L	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 >1000 mg/L	Crustaceans - Amphipod - Chaetogammarus marinus - Young - 5 mm	48 hours
	-	Acute LC50 5000 ug/L	Fish - Giant gourami - Colisa fasciata - Fingerling	96 hours
Hydrogen chloride	-	Acute LC50 240000 ug/L	Crustaceans - Green or European shore crab - Carcinus maenas - Adult	48 hours
	-	Acute LC50 282000 ug/L	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
Alkyl(C9-11) alcohol, ethoxylated	-	Acute EC50 5.36 mg/L	Crustaceans - Water flea - - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute EC50 2686 ug/L	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 8500 ug/L	Fish - Fathead minnow - Pimephales promelas	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. (Hydrochloric Acid) or Consumer commodity or Limited quantity	8	II	
TDG Classification	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid) or Limited quantity	8	II	
IMDG Class	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid) or Limited quantity	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**

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.

**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 material

**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.