Zep Commercial Sales & Service A unit of Zep Inc. P.O. Box 1060 Cartersville, GA 30120 1-888-805-HELP (4357) www.zepcommercial.com

# **Material Safety Data Sheet**

## Section 1. Chemical Product and Company Identification

Product name Calcium, Lime & Rust Stain Remove
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Product code	ZUCAL
Date of issue	05/01/09

5/01/09 Supersedes

# 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 DANGER	
_	: /E AND SKIN BURNS. HARMFUL IF SWALLOWED.
	data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all ety 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.
Skin	Causes skin burns. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. May cause allergic reactions in certain individuals.
Inhalation	Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation.
Ingestion	Harmful if swallowed. May cause burns to mouth, throat and stomach.
	Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection. Contains material which may cause damage to the following organs: kidneys, liver, gastrointestinal tract.
Carcinogenie	city Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.
	Additional Information: See Toxicological Information (Section 11)

Section 3. Con	nposition/Information on Ingredients			
HYDROCHLOR	IC ACID; muriatic acid; hydrogen chloride; HCl	,	7647-01-0	1 - 5
HYDROXYACE'	TIC ACID; glycolic acid; hydroxyethanoic acid	,	79-14-1	1 - 5
SULFAMIC ACI	D; amidosulfonic acid; amidosulfuric acid		5329-14-6	1 - 5
Section 4. Firs	t Aid Measures			
Eye Contact	Check for and remove any contact lenses. Immedia upper and lower eyelids. Continue to rinse for at least			
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	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If irritation persists, get medical attention.			
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.			

Product code ZUCAL Material Safety Data Sheet Product Name Calcium, Lime & Rust Stain Remover National Fire Protection Association (U.S.A.) Section 5. Fire Fighting Measures None. Flash Point Not available. Flammable Limits Flammability Non-combustible. In a fire or if heated, a pressure increase will occur and the container may burst. May emit toxic **Fire hazard** fumes under fire conditions. **Fire-Fighting** Use an extinguishing agent suitable for the surrounding fire. Do not release runoff from fire to sewers or waterways. 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 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. Do not use with other products. Do not reuse container. Observe label precautions. Wash thoroughly after handling. Storage 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. Keep container tightly closed and sealed until ready for use. Keep out of the reach of children. Section 8. Exposure Controls/Personal Protection Product name **Exposure limits** ACGIH TLV/OSHA PEL (United States). HYDROCHLORIC ACID; muriatic acid; hydrogen chloride; HCl CEIL: 5 ppm 8 hour(s). **OSHA PEL** (United States). CEIL: 7 mg/m3 8 hour(s). Personal Protective Equipment (PPE) **Eyes** Splash goggles. Body Wear appropriate protective clothing to prevent skin contact. Recommended: Neoprene gloves. Rubber gloves. Wear apron or coverall if there is a risk of exposure to splashes. **Respiratory** Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use. Section 9. Physical and Chemical Properties Color Clear. Light yellow. **Physical State** Liquid. рΗ <1 Odor Sour. Acidic. 100°C (212°F) **Boiling Point** Vapor Pressure Not determined. Vapor Density Not determined. **Specific Gravity** 1.067 **Solubility** Easily soluble in the following materials: cold water. Evaporation Rate Not determined. VOC (Consumer) 0 (g/l). Section 10. Stability and Reactivity **Stability and Reactivity** The product is stable. Incompatibility Do not use with other products. Reactive or incompatible with the following materials: oxidizing materials, organic materials, metals and alkalis. **Hazardous Polymerization** Will not occur. Hazardous Decomposition Products Section 11. Toxicological Information **Acute Toxicity** Exposure **Product/ingredient name** Result **Species** Dose Sulfamic Acid LD50 Oral 3160 mg/kg Rat Hydrochloric Acid LD50 Oral Rabbit 900 mg/kg 3124 ppm LC50 Inhalation Vapor Rat 1 hours Hydroxyacetic Acid LD50 Oral 1938 mg/kg Rat LC50 Inhalation Vapor Rat 5.2 mg/L 4 hours LC50 Inhalation Vapor

Rat

3.6 mg/L

4 hours

Product code ZUCAL

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No known significant effects or critical hazards.

#### Section 12. Ecological Information

# Environmental Effects

Aquatic Ecotoxicity

Not available.

#### 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, Sulfamic acid)	8	II	
TDG Classification	UN3264	Corrosive liquid, acidic, inorganic, nos (Hydrochloric acid, Sulfamic acid)	8 (9)	П	
IMDG Class	Not determined.				

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: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Hydrochloric Acid (RQ 5,000 lbs)

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

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

# State Regulations

California Prop 65	No products were found.	
<u>Canada</u>		
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.