

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 Calcium, Lime & Rust Stain Remover

Product code ZUCAL

Date of issue 05/03/13 Supersedes 03/15/13

**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 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.

**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** 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. May cause irritation of respiratory tract, coughing, shortness of breath.

**Ingestion** Harmful if swallowed. Exposure can cause stomach pains, vomiting and diarrhea.

**Chronic effects** Causes damage to the following organs: skin, eyes. Contains material which may cause damage

to the following organs: kidneys, the reproductive system, gastrointestinal tract, upper respiratory tract. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory

tract irritation leading to frequent attacks of bronchial infection.

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

Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

#### Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	<u>CAS number</u>	% by weight	
urea hydrochloride	506-89-8	1 - 10	
Sulfamic Acid; sulphamidic acid	5329-14-6	1 - 5	
Alkyl(C9-11) alcohol, ethoxylated	68439-46-3	1 - 5	
Hydroxyacetic Acid; glycollic acid	79-14-1	1 - 5	
citric acid	77-92-9	1 - 5	

#### Section 4. First Aid Measures

**Eye Contact** Check for and remove any contact lenses. Immediately flush eyes with plenty of water, occasionally lifting the

**Skin Contact** 

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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.

## Section 5. Fire Fighting Measures

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

Flash Point None.

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. May emit

toxic fumes under fire conditions.

Fire-Fighting Use an extinguishing agent suitable for the surrounding fire. Do not release runoff from fire to

**Procedures** drains or watercourses.

## 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** 

No exposure limit value known.

## **Personal Protective Equipment (PPE)**

Splash goggles. **Eyes Body** 

Neoprene Nitrile or Rubber Gloves. Wear long sleeves and other protective clothing to prevent repeated or prolonged skin contact.

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

inadequate.

## Section 9. Physical and Chemical Properties

**Physical State** Liquid. [Clear.]

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**Boiling Point** 100°C (212°F)

Specific Gravity 1.067

**Solubility** Easily soluble in the following materials: cold water

and hot water.

Color Yellow. [Light] Odor Sour. Acidic. Vapor Pressure Not available.

Vapor Density Not available. **Evaporation Rate** Not available.

**VOC (Consumer)** 0.05 % (w/w) 0.00445 lbs/gal (0.53 g/

1)

upper and lower eyelids. Continue to rinse for at least 10 minutes. Get medical attention immediately.

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.

If irritation persists, get medical attention.

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### Section 10. Stability and Reactivity

**Stability and Reactivity** The product is stable.

**Incompatibility** Reactive or incompatible with the following materials: oxidizing materials, organic materials,

metals and alkalis. Do not use with other products.

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

Hazardous Decomposition Products nitrogen oxides (NO, NO2 etc.), sulfur oxides (SO2, SO3 etc.), carbon oxides (CO, CO2) and

Ammonia gas

## Section 11. Toxicological Information

### **Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
sulphamidic acid	LD50 Oral	Rat	3160 mg/kg	-
Alkyl(C9-11) alcohol, ethoxylated	LD50 Oral	Rat	1378 mg/kg	-
glycollic acid	LC50 Inhalation Vapor	Rat	7.1 ug/m3	4 hours
	LD50 Oral	Rat	1938 mg/kg	-
citric acid	LD50 Oral	Rat	3 g/kg	-

## Section 12. Ecological Information

**Environmental Effects** 

Not available.

## **Aquatic Ecotoxicity**

sulphamidic acid	-	Acute LC50 14200 ug/L	Fish - Fathead minnow -	96 hours
		Fresh water	Pimephales promelas	
Alkyl(C9-11) alcohol, ethoxylated	-	Acute EC50 5.36 mg/L	Crustaceans - Water flea	48 hours
		Fresh water	<ul> <li>Ceriodaphnia dubia -</li> </ul>	
			Neonate - <24 hours	
	-	Acute EC50 2686 ug/L	Daphnia - Water flea -	48 hours
		Fresh water	Daphnia magna -	
			Neonate - <24 hours	
	-	Acute LC50 8500 ug/L	Fish - Fathead minnow -	96 hours
		Fresh water	Pimephales promelas	
citric acid	-	Acute LC50 160000 ug/	Crustaceans - Green or	48 hours
		L Marine water	Europeon shore crab -	
			Carcinus maenas - 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 - 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. (Sulfamic Acid) or Consumer commodity or Limited quantity	8	11	
TDG Classification	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic Acid) or Limited quantity	8	II	
IMDG Class	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic 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:

No products were found.

Clean Water Act (CWA) 311: No products were found.

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.

All components are listed or exempted.

### **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.

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