

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name Calcium, Lime & Rust Stain Remover

Product code ZUCAL

Date of issue 05/01/09 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 overview

ANOFO !

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

DANGER!

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.

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.

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

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

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HYDROCHLORIC ACID; muriatic acid; hydrogen chloride; HCl	7647-01-0
HYDROXYACETIC ACID; glycolic acid; hydroxyethanoic acid	79-14-1
SULFAMIC ACID; amidosulfonic acid; amidosulfuric acid	5329-14-6

Section 4. First Aid Measures

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

upper and lower eyelids. 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. 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.

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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 sewers or waterways.

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

HYDROCHLORIC ACID; muriatic acid; hydrogen chloride; HCl

ACGIH TLV/OSHA PEL (United States).

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

Physical State
pHLiquid.
<1</th>Color Clear. Light yellow.Odor Sour. Acidic.

Boiling Point100°C (212°F)Vapor Pressure Not determined.Specific Gravity1.067Vapor Density Not determined.

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

Product/ingredient name	Result	Species	Dose	Exposure
Sulfamic Acid	LD50 Oral	Rat	3160 mg/kg	-
Hydrochloric Acid	LD50 Oral	Rabbit	900 mg/kg	-
	LC50 Inhalation Vapor	Rat	3124 ppm	1 hours
Hydroxyacetic Acid	LD50 Oral	Rat	1938 mg/kg	-
	LC50 Inhalation Vapor	Rat	5.2 mg/L	4 hours
	LC50 Inhalation Vapor	Rat	3.6 mg/L	4 hours

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Section 12. Ecological Information

Environmental Effects

No known significant effects or critical hazards.

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.

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.