

ENFORCER Products A Division of Acuity Specialty Products Group, Inc. P.O. Box 1060 Cartersville, GA 30120 1-888-805-HELP www.zepcommercial.com

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name Calcium, Lime & Rust Stain Remover

Product Code HDRUST

Date of issue 04/04/07 Supersedes 04/26/05

Emergency For a Medical Emergency:

Telephone INFOTRAC

Numbers (877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:

CHEMTREC

(800) 424-9300 (Toll Free - Calls Recorded)

Prepared by Compliance Services Group

Acuity Specialty Products Group 1420 Seaboard Industrial Blvd.

Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Printing Date:

Name of Hazardous Ingredients	CAS#	₁ % by Weight	Exposure Limits
HYDROCHLORIC ACID; muriatic acid; hydrogen	7647-01-0	1 - 5	ACGIH TLV/OSHA PEL (United
chloride; HCl			States).
			CEIL: 5 ppm 8 hour(s).
			OSHA PEL (United States).
			CEIL: 7 mg/m ³ 8 hour(s).
HYDROXYACETIC ACID; glycolic acid; hydroxyethanoic acid	79-14-1	1 - 5	Not established
SULFAMIC ACID; amidosulfonic acid	5329-14-6	1 - 5	Not established

Section 3. Hazards Identification

Acute Effects Routes of Entry Dermal contact. Eye contact. Inhalation. Ingestion.

Skin Causes skin burns. Skin inflammation is characterized by itching, scaling, reddening, or,

occasionally, blistering. May cause allergic reactions to certain individuals.

Eyes Causes eye burns. 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.

Carcinogenic

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

Effects
Chronic Effects

ffects Repeated or prolonged contact 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.

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 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. Thoroughly clean shoes 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. 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

Flash Point Not applicable. Flammable Limits Not applicable.

Flammability Non combustible.

Fire Hazard May emit toxic fumes under fire conditions.

Fire-Fighting ProceduresUse an extinguishing agent suitable for surrounding fires. Do not release

runoff from fire to sewers or waterways.

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.

Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Use only with

adequate ventilation. Wash thoroughly after handling. Do not use with other products. Do not reuse product

container. Observe label precautions.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

Personal Protection

Protective Clothing (Pictograms)

VOC (Consumer) 0 (g/l).

Eyes Splash goggles.

Body Wear appropriate protective clothing to prevent skin contact.

Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves. Wear

apron or coverall if potential for 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 Liquid. Color Clear. Colorless to light yellow.

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive with oxidizing agents, organic materials., metals, alkalis. Do not use with other products.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Not applicable.

Products

Section 11. Toxicological Information

Toxicity to Animals Hydrochloric Acid:

ORAL (LD50): Acute: 900 mg/kg [Rabbit]. VAPOR (LC50): Acute: 3124 ppm 1 hour(s) [Rat].

HYDROXYACETIC ACID:

ORAL (LD50): Acute: 1938 mg/kg [Rat.].

SULFAMIC ACID:

ORAL (LD50): Acute: 3160 mg/kg [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.)

Origin: - (RCRA waste.)

Consult your local or regional authorities.

Product Code HDRUST	Material Safety Data Sheet	Product Name Calcium, Lime & Rust Stain Remover		
Section 14. Transport In	formation			
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.(Hydrochloric acid, Sulfamic acid) or Consumer Commodity ORM-D in limited quantities			
DOT Classification	Class 8: Corrosive liquid.			
UN number	UN3264			
TDG Classification	TDG Class 8: Corrosive liquid; 9.2: Environmentally hazardous material.			
Section 15. Regulatory li	nformation			
	S SARA 313 toxic chemical notification and release No products were found.	reporting:		
	Clean Water Act (CWA) 311: Hydrochloric Acid (RQ 5,000 lbs)		
	Clean air act (CAA) 112 regulated toxic substances	s: No products were found.		
	All Components of this product are listed or exemp	ot from listing on TSCA inventory.		
State Regulations	California prop. 65: No products were found.			
WHMIS (Canada)	Class D-1B: Material causing immediate and serior Class D-2B: Material causing other toxic effects (` ,		

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.

Class E: Corrosive liquid.

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.