

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name Crystal Heat Drain Opener

Product code ZUCRY2

Date of issue 02/13/08 Supersedes

Emergency Telephone Numbers

For MSDS Information:

Compliance Services 404-352-1680

For Medical Emergency

INFOTRAC: (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

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DANGER!

POISON

CAUSES EYE AND SKIN BURNS.

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. Skin contact. Inhalation. Ingestion.

Eyes Causes eye burns. Direct contact with the eyes can cause irreversible damage, including

blindness.

Skin Corrosive to skin on contact. The amount of tissue damage depends on length of contact.

Inhalation Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by

burning, sneezing and coughing.

Ingestion May be fatal if swallowed. May cause burns to mouth, throat and stomach.

<u>Chronic effects</u> Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage.

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

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
SODIUM HYDROXIDE; caustic soda; soda lye	1310-73-2	30 - 40
SODIUM NITRATE; chile saltpeter; soda niter	7631-99-4	20 - 30
ALUMINUM; METALLIC GRANULES	7429-90-5	5 - 10
SODIUM CARBONATE; soda ash; carbonic acid, disodium salt	497-19-8	5 - 10

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 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. 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.

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Section 5. Fire Fighting Measures

Flash Point None.

Flammable Limits Not applicable. Non-combustible. **Flammability**

Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, Fire hazard

tin, lead and zinc. May decompose to form toxic/corrosive gases. Contains a strong oxidizer.

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

Contact with other material may cause fire.

Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear Fire-Fighting

Procedures appropriate protective equipment. The product may cause explosive spattering in contact with

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Sweep up and place in suitable clean, dry

containers for reclamation or later disposal. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not Handling

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. Empty containers retain product residue and can be hazardous.

Do not reuse container. Reacts violently when water is added to this product.

Storage Store in accordance with local regulations. Contains moisture-sensitive material. Store in a dry place. Store away from

incompatible materials (see section 10). 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 Exposure limits

SODIUM HYDROXIDE; caustic soda; soda lye ACGIH TLV (United States).

CEIL: 2 mg/m³ Form: Dust OSHA PEL (United States). TWA: 2 mg/m³ 8 hour(s). Form:

ALUMINUM; METALLIC GRANULES ACGIH TLV / OSHA PEL (United States).

> : 5 mg/m³ Form: Fume ACGIH TLV (United States). : 10 mg/m³ Form: Dust OSHA PEL (United States).

: 15 mg/m3 Form: Dust

SODIUM CARBONATE; soda ash; carbonic acid, disodium salt ACGIH (United States).

· 15 mg/m3 Form: Dust OSHA PEL (United States).

TWA: 15 mg/m³ 8 hour(s). Form: Total dust

Personal Protective Equipment (PPE)

Splash goggles. Face shield. **Eyes**

Body Wear appropriate protective clothing to prevent skin contact.

Nitrile gloves. Butyl rubber gloves.

Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering

controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is

inadequate.

Section 9. Physical and Chemical Properties

Solid. [Crystalline granules.] **Physical State** pН 12.5 - 13.0 [Conc. : 1%]

Boiling Point Not applicable **Specific Gravity** Not applicable Solubility 12 g / 100 ml

Color Blue. [Light] Odor Mild.

Vapor Pressure Not applicable Vapor Density Not applicable **Evaporation Rate** Not applicable VOC (Consumer) 0 (g/l).

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Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive or incompatible with the following materials: water, some metals and acids.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products nitrogen oxides (NO, NO₂ etc.)

Section 11. Toxicological Information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium Hydroxide	LD50 Dermal	Rabbit	1350 mg/kg	-
	LD50 Oral	Rat	240 mg/kg	-
SODIUM NITRATE	LD50 Oral	Rat	1267 mg/kg	-
Sodium Carbonate	LD50 Oral	Rat	2800 mg/kg	_

Section 12. Ecological Information

Environmental Effects

Toxic to aquatic organisms.

Aquatic Ecotoxicity

Not available.

Section 13. Disposal Considerations

Waste Information

Bogulatory 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.)

HM number

Section 14. Transport Information

Regulatory Information	UN number	Proper snipping name	Classes	PG*	Labei
DOT Classification	UN3262	Corrosive solid, basic, inorganic, n.o.s. (Sodium Hydroxide) or Consumer commodity ORM-D in Limited quantity	Class 8: Corrosive solid.	II	
TDG Classification	UN3266	Corrosive liquid, n.o.s.	TDG Class 8: Corrosive liquid.	II	
IMDG Class	Not available.	Not available.	Not available.	-	

Labol

Proper chinning name

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

Aluminum (fume or dust)

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

Clean Water Act (CWA) 311: Sodium Hydroxide

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 WARNING: This product contains a chemical or chemicals known to the state

of California to cause cancer, birth defects or other reproductive harm.: Lead,

Benzyl chloride, 1,4-Dioxane

Canada

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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.