



# 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

**DANGER !**

POISON  
 CAUSES EYE AND SKIN BURNS.  
 MAY BE FATAL IF SWALLOWED.

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



**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.

### Chronic effects

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

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.

**Section 5. Fire Fighting Measures**

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



<b>Flash Point</b>	None.
<b>Flammable Limits</b>	Not applicable.
<b>Flammability</b>	Non-combustible.
<b>Fire hazard</b>	Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc. May decompose to form toxic/corrosive gases. Contains a strong oxidizer. Contact with other material may cause fire.
<b>Fire-Fighting Procedures</b>	Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment. The product may cause explosive spattering in contact with water.

**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**

<b>Handling</b>	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. 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.
<b>Storage</b>	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**

SODIUM HYDROXIDE; caustic soda; soda lye

ALUMINUM; METALLIC GRANULES

SODIUM CARBONATE; soda ash; carbonic acid, disodium salt

**Exposure limits****ACGIH TLV (United States).**CEIL: 2 mg/m<sup>3</sup> Form: Dust**OSHA PEL (United States).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form:**ACGIH TLV / OSHA PEL (United States).**: 5 mg/m<sup>3</sup> Form: Fume**ACGIH TLV (United States).**: 10 mg/m<sup>3</sup> Form: Dust**OSHA PEL (United States).**: 15 mg/m<sup>3</sup> Form: Dust**ACGIH (United States).**: 15 mg/m<sup>3</sup> Form: Dust**OSHA PEL (United States).**TWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust**Personal Protective Equipment (PPE)**

<b>Eyes</b>	Splash goggles. Face shield.
<b>Body</b>	Wear appropriate protective clothing to prevent skin contact. Nitrile gloves. Butyl rubber gloves.
<b>Respiratory</b>	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**

<b>Physical State</b>	Solid. [Crystalline granules.]	<b>Color</b>	Blue. [Light]
<b>pH</b>	12.5 - 13.0 [Conc. : 1%]	<b>Odor</b>	Mild.
<b>Boiling Point</b>	Not applicable	<b>Vapor Pressure</b>	Not applicable
<b>Specific Gravity</b>	Not applicable	<b>Vapor Density</b>	Not applicable
<b>Solubility</b>	12 g / 100 ml	<b>Evaporation Rate</b>	Not applicable
		<b>VOC (Consumer)</b>	0 (g/l).

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive or incompatible with the following materials: water, some metals and acids.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	nitrogen oxides (NO, NO <sub>2</sub> 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**

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
<b>DOT Classification</b>	UN3262	Corrosive solid, basic, inorganic, n.o.s. (Sodium Hydroxide) or Consumer commodity ORM-D in Limited quantity	Class 8: Corrosive solid.	II	
<b>TDG Classification</b>	UN3266	Corrosive liquid, n.o.s.	TDG Class 8: Corrosive liquid.	II	
<b>IMDG Class</b>	Not available.	Not available.	Not available.	-	

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**

**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.