



ENFORCER Products, Inc.
P.O. Box 1060
Cartersville, GA 30120
1-888-805-HELP

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name Crystal Clog Remover
Product Code ZCRY2
Date of issue 12/29/03 **Supersedes** 05/22/03

Emergency Telephone Numbers **For MSDS Information:**
Compliance Services (404) 352-1680
For a Medical Emergency:
CHEM-TEL
(800) 255-3924 (Toll Free - Calls Recorded)
For a Transportation Emergency:
CHEMTREC
(800) 424-9300 (Toll Free - Calls Recorded)

Printing Date:

Prepared by Compliance Services Group
Acuity Specialty Products Group
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
SODIUM HYDROXIDE; caustic soda; soda lye	1310-73-2	30-40	ACGIH TLV (United States). CEIL: 2 mg/m ³ Form: Dust Not established
SODIUM NITRATE; chile saltpeter; soda niter	7631-99-4	20-30	ACGIH TLV / OSHA PEL (United States). : 5 mg/m ³ Form: Fume ACGIH TLV (United States). : 10 mg/m ³ Form: Dust OSHA PEL (United States). : 15 mg/m ³ Form: Dust Not established
ALUMINUM; METALLIC GRANULES	7429-90-5	5-10	
SODIUM CARBONATE; soda ash; carbonic acid; disodium salt	497-19-8	5-10	Not established

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation. Ingestion.
Skin Extremely hazardous in case of skin contact (corrosive). The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Skin contact may produce burns.
Eyes Extremely hazardous in case of eye contact (corrosive). Eye contact can result in corneal damage or blindness.
Inhalation Extremely hazardous in case of inhalation (lung irritant). Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Over-exposure by inhalation may cause respiratory irritation.
Ingestion May be fatal if swallowed. May cause burns to mouth, throat and stomach.

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

Chronic Effects The substance may be toxic to kidneys, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

See Toxicological Information (section 11)

HMIS	
Health	3
Fire Hazard	0
Reactivity	2
Personal Protection	C

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. 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. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.	Flammable Limits	Not applicable.
Flammability	Not applicable.		
Fire Hazard	In certain fire conditions, traces of other toxic gases may be emitted.		
Fire-Fighting Procedures	Use an extinguishing agent suitable for surrounding fires.		

**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 according to all federal, state and local applicable regulations.
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Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Do not ingest. Do not breathe dust. Fumes highly irritant. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not use with other products. Observe label precautions.
Storage	Keep container tightly closed and dry. 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)**

Eyes	Safety glasses.	
Body	Gloves. Wear apron or coverall if potential for exposure to splashes.	
Respirator	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	Solid. (Crystalline granules solid.)	Color	Blue. (Light.)
pH	12.5 - 13.0 (1% Solution)	Odor	Odorless.
Boiling Point	Not applicable.	Vapor Pressure	Not applicable.
Specific Gravity	Not applicable.	Vapor Density	Not applicable.
Solubility	12g/100ml	Evaporation Rate	Not applicable.
		VOC (Consumer)	0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Highly reactive with metals, acids, moisture
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Carbon Dioxide (CO ₂) , Carbon Monoxide , Oxides of Nitrogen. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.

Section 11. Toxicological Information

Toxicity to Animals	Sodium Hydroxide:
	ORAL (LD50): Acute: 240 mg/kg [Rat].
	DERMAL (LD50): Acute: 1350 mg/kg [Rabbit].
	Sodium Nitrate:
	ORAL (LD50): Acute: 3236 mg/kg [Rat].
	Soda Ash Dense:
	ORAL (LD50): Acute: 4090 mg/kg [Rat].

Section 12. Ecological Information

Ecotoxicity	Not available.
Biodegradable/OE	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.)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Corrosive solid. Basic. Inorganic NOS (Sodium Hydroxide) or Consumer Commodity ORM-D in Limited Quantity

DOT Classification 8

UN number 3262

TDG Classification 8

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: Sodium Hydroxide

Clean air act (CAA) 112 regulated toxic substances: No products were found.

State Regulations California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute :Arsenic, Cadmium, Chromium, Lead

WHMIS (Canada) Class E: Corrosive solid.
Class F: Dangerously reactive 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.