



ENFORCER Products
 A Division of Acuity Specialty Products
 Group, Inc.
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Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name Professional Strength Drain Opener
Product Code ZLO-NG
Date of issue 04/04/07 **Supersedes** 08/16/04

Emergency Telephone Numbers **For a Medical Emergency:**
 INFOTRAC
 (877) 541-2016 (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
POTASSIUM HYDROXIDE; caustic potash; lye	1310-58-3	1 - 10	ACGIH /OSHA (United States). CEIL: 2 mg/m ³
SODIUM HYPOCHLORITE; hypochlorous acid, sodium salt; bleach	7681-52-9	1 - 10	ACGIH TLV (United States). TWA: 0.5 ppm 8 hour(s). Form: As Cl ₂ STEL: 1 ppm 15 minute(s). Form: As Cl ₂ OSHA PEL 1989 (United States). TWA: 1 ppm 8 hour(s). Form: As Cl ₂ STEL: 3 ppm 15 minute(s). Form: As Cl ₂

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Skin contact. Eye contact. Ingestion.
Skin Corrosive to the skin. Skin contact may produce burns. The amount of tissue damage depends on length of contact.
Eyes Causes eye burns. Direct contact with the eyes can cause irreversible damage including blindness.
Inhalation Inhalation may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
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 Repeated or prolonged contact with spray mist 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)

HMIS

Health	3
Fire Hazard	0
Reactivity	1
Personal Protection	B

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.
Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion If swallowed, 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.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.	Flammable Limits	Not applicable.
Flammability	Not applicable.		
Fire Hazard	Not applicable.		
Fire-Fighting Procedures	Use DRY chemicals, CO ₂ , water spray or foam.		

**Section 6. Accidental Release Measures**

Spill Clean up	Put on appropriate personal protective equipment (see Section 8). Absorb with an inert material and place in an appropriate waste disposal container. Flush residual spill (area) with large amount of water.
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Section 7. Handling and Storage

Handling	Do not get in eyes, on skin, or on clothing. Do not ingest. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not mix with other household chemicals.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Store above 40°F and below 120°F. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)**

Eyes	Splash goggles.
Body	Use chemical resistant, impervious gloves.
Respiratory	Wear appropriate respirator when ventilation is inadequate.

**Section 9. Physical and Chemical Properties**

Physical State	Liquid.	Color	Clear. Colorless.
pH	>13 [Basic.]	Odor	Faint Odor
Boiling Point	100°C (212°F)	Vapor Pressure	Not determined.
Specific Gravity	1.05 (Water = 1)	Vapor Density	Not determined.
Solubility	Easily soluble in cold water, hot water.	Evaporation Rate	1 compared to Water
		VOC (Consumer)	0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Extremely reactive or incompatible with acids. Reactive with organic materials, metals, ammonia.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂)

Section 11. Toxicological Information

Toxicity to Animals	Potassium Hydroxide:
	ORAL (LD50): Acute: 365 mg/kg [Rat].
	Sodium Hypochlorite:
	ORAL (LD50): Acute: 8910 mg/kg [Rat].
	DERMAL (LD50): Acute: >10000 mg/kg [Rabbit].

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.

Section 14. Transport Information

Proper shipping name	None. Not regulated.
DOT Classification	Not restricted per 49 CFR 172.101(c)(12)(iv).
UN number	None assigned.
TDG Classification	Not restricted per 49 CFR 172.101(c)(12)(iv)

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: Potassium hydroxide; Sodium Hypochlorite

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.

WHMIS (Canada)

Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).

Class E: Corrosive liquid.

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.