



ENFORCER Products  
 A Division of Acuity Specialty Products Group,  
 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** Professional Strength Drain Opener

**Product Code** ZLO64/128 CNLO128

**Date of issue** 08/16/04 **Supersedes** 04/15/04

**Emergency Telephone Numbers** **For MSDS Information:**  
Compliance Services (404) 352-1680

**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	1-5	<b>ACGIH /OSHA (United States).</b> CEIL: 2 mg/m <sup>3</sup>
SODIUM HYPOCHLORITE; hypochlorous acid, sodium salt; bleach	7681-52-9	<5	<b>ACGIH TLV (United States).</b> TWA: 0.5 ppm 8 hour(s). Form: As Cl <sub>2</sub> STEL: 1 ppm 15 minute(s). Form: As Cl <sub>2</sub> <b>OSHA PEL 1989 (United States).</b> TWA: 1 ppm 8 hour(s). Form: As Cl <sub>2</sub> STEL: 3 ppm 15 minute(s). Form: As Cl <sub>2</sub>

## Section 3. Hazards Identification

**Acute Effects** **Routes of Entry** Skin contact Eye contact. Ingestion.  
**Skin** Very hazardous in case of skin contact (corrosive). Skin contact may produce burns.  
**Eyes** Extremely hazardous in case of eye contact (corrosive). Causes eye burns.  
**Inhalation** Moderately irritating to the respiratory system.

**Ingestion** Very hazardous in case of 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

<b>Health</b>	<b>3</b>
<b>Fire Hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>1</b>
<b>Personal Protection</b>	<b>B</b>

## Section 4. First Aid Measures

**Eye Contact** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. 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. Loosen tight clothing such as a collar, tie, belt or waistband. 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<sub>2</sub>, 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.

### Section 7. Handling and Storage

**Handling** 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** Protective gloves should be worn during handling.  
**Respirator** 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.  
**Hazardous Polymerization** Will not occur.  
**Hazardous Decomposition Products** carbon oxides (CO, CO<sub>2</sub>)

### 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/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** D002  
 Consult your local or regional authorities.

**Section 14. Transport Information**

<b>Proper shipping name</b>	Corrosive liquid. Basic. Inorganic NOS (Potassium Hydroxide) or Consumer Commodity ORM-D in Limited Quantity
<b>DOT Classification</b>	Class 8: Corrosive liquid.
<b>UN number</b>	UN 3266
<b>TDG Classification</b>	TDG Class 8: Corrosive liquid. TDG Class 9.2: Environmentally hazardous material.

**Section 15. Regulatory Information**

<b>U.S. Federal Regulations</b>	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.
---------------------------------	--

<b>State Regulations</b>	California prop. 65: No products were found.
--------------------------	--

<b>WHMIS (Canada)</b>	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.*