

# Material Safety Data Sheet



Zep Inc.  
1310 Seaboard Industrial Blvd.  
Atlanta, GA 30318  
1-877-793-7776

## Section 1. Chemical Product and Company Identification

**Product name** ALKALINE DRAIN OPENER  
**Product use** Sewer and Drain Cleaner - Alkaline Liquid  
**Product code** R027  
**Date of issue** 08/05/08 **Supersedes**

### Emergency Telephone Numbers

#### For MSDS Information:

Compliance Services 1-877-793-7776

#### 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. Corrosive to skin, eyes, and mucous membranes.

HARMFUL OR 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.

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



### Acute Effects

#### Routes of Entry

Dermal contact. Eye contact. Inhalation.

#### Eyes

Corrosive to eyes on contact. Eye exposure may cause severe and permanent eye injury (blindness).

#### Skin

Corrosive to skin on contact. Causes skin burns. The amount of tissue damage depends on length of contact. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

#### Inhalation

Corrosive to the respiratory system. Avoid inhalation of vapor, spray or mist. Liquid, spray or mist may produce tissue damage, particularly to mucous membranes of eyes, mouth and respiratory tract.

#### Ingestion

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

### Chronic effects

Repeated or prolonged contact with spray or 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. Repeated or prolonged exposure to the substance can produce mucous membranes 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 TRIPOLYPHOSPHATE	7758-29-4	1 - 10
POTASSIUM HYDROXIDE; caustic potash; lye	1310-58-3	1 - 5
SODIUM HYPOCHLORITE; hypochlorous acid, sodium salt; bleach	7681-52-9	1 - 5

## 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 10 minutes. Get medical attention immediately.

### Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. 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. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

### Section 5. Fire Fighting Measures

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



**Flash Point** None.

**Flammable Limits** Not applicable

**Flammability** Non-combustible.

**Fire hazard** Reacts violently with water. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.

**Fire-Fighting Procedures** Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment. Do not release runoff from fire to sewers or waterways.

### Section 6. Accidental Release Measures

**Spill Clean up** Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Section 7. Handling and Storage

**Handling** Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. DO NOT breathe vapors or spray mist. Use only with adequate ventilation. Do not ingest. Do not reuse container. Do not use with other products. Observe label precautions. When making solutions or diluting, add product slowly to surface of cold water while stirring. Do not add to warm or hot water as a violent eruption can result. Wash thoroughly after handling.

**Storage** Store away from incompatible materials. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

### Section 8. Exposure Controls/Personal Protection

#### Product name

POTASSIUM HYDROXIDE; caustic potash; lye

#### Exposure limits

ACGIH /OSHA (United States).  
CEIL: 2 mg/m<sup>3</sup>

#### Personal Protective Equipment (PPE)

**Eyes** Splash goggles. Face shield.

**Body** Wear appropriate protective clothing to prevent skin contact. Recommended: Rubber gloves. Neoprene gloves. Wear apron or coverall if there is a risk of exposure to splashes. Chemical resistant boots.

**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

**Physical State** Liquid. **Color** Red. [Dark]

**pH** 13.0 - 14.0 **Odor** Odorless.

**Boiling Point** 135°C (275°F) **Vapor Pressure** Not determined.

**Specific Gravity** 1.45 **Vapor Density** Not determined.

**Solubility** Easily soluble in the following materials: cold water and hot water. **Evaporation Rate** 1 (Water = 1)

**VOC (Consumer)** 0 (g/l).

### Section 10. Stability and Reactivity

**Stability and Reactivity** The product is stable.

**Incompatibility** Do not use with other products. May generate heat on contact with water. Incompatible with aluminum and magnesium. Slightly reactive or incompatible with the following materials: oxidizing materials, reducing materials, metals and acids.

**Hazardous Polymerization** Will not occur.

**Hazardous Decomposition Products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicological Information****Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Potassium Hydroxide	LD50 Oral	Rat	365 mg/kg	-

**Section 12. Ecological Information**

**Environmental Effects** No known significant effects or critical hazards.

**Aquatic Ecotoxicity**


Product/ingredient name	Test	Result	Species	Exposure
Potassium Hydroxide	-	Acute LC50 179 mg/L	Fish	96 hours

**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>	3266	Corrosive liquid, Basic, Inorganic, NOS (Potassium Hydroxide)	8	II	
<b>IMDG Class</b>	Not determined.				

**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:

No products were found.

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

**Clean Water Act (CWA) 311:** Potassium Hydroxide (RQ 1000 lbs)

**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.

**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.