

**MATERIAL SAFETY DATA SHEET**

Revision Date: 3/20/2002

MSDS No.: N-013

Emergency Phones: 708-579-8100 (NYCO)

800-424-9300 (CHEMTREC)

PLEASE NOTE: This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this material. Please read the information on these sheets, and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL and STATE RIGHT-TO-KNOW regulations. Also make this information available to any employee who requests it. It is your obligation to comply with these regulations.

**SECTION I - PRODUCT IDENTITY**

**PRODUCT NAME:** Drain Solve Liquid Caustic Drain Opener

Formula: Mixture, sodium hydroxide in water.

Chemical Type: as above

**HMIS RATINGS**

Health = 4 (Severe)	Flammability = 0 (Insignificant)
Reactivity = 0 (Minimal)	Protection = D (Face Shield, Gloves, Synthetic Apron)

**SECTION II - HAZARDOUS INGREDIENTS**

	PERCENT	TLV	CARCINOGEN (OSHA,TP,IARC)
Sodium Hydroxide CAS No. 1310-73-2	>40%	2 mg/m3 ceiling	no

**SECTION III - CHEMICAL AND PHYSICAL**

Appearance: Clear Liquid	Boiling Point: est. 290 ° F.
Odor: none	Melting Point: N/A
pH: >13	Spec. Gravity (H <sub>2</sub> O = 1): app. 1.5
Water Solubility: Completely	Vapor Pressure (mm Hg): n/ap
Viscosity, Cp. @ 25°C.: A-5 Gardner	VOC Content: none (N.A.)

**SECTION IV - FIRE AND EXPLOSION HAZARDS**

Flash Point (Method): none	Explosion Limits: Upper: N/A Lower: N/A
----------------------------	--

Extinguishing Media: N/A (product is non-flammable)

Special Firefighting Procedures and Hazards: Avoid skin and eye contact, and breathing of vapors. Wear head and body protection and alkali respirator if exposure to liquid is likely. Firewaters may become corrosive if they contact product.

**SECTION V - REACTIVITY INFORMATION**

Stable:  Unstable:

**Precautions:**

Incompatibility: strong acids, materials not resistant to alkalis, active metals (zinc, aluminum, magnesium, etc.).

Hazardous Decomposition Products: Contact with active metals can release flammable gas

Hazardous Polymerization: Occurs: Does Not Occur: x

## SECTION VI - HEALTH HAZARDS - PROTECTIVE MEASURES - FIRST AID

---

- Inhalation:** Breathing of mists causes respiratory irritation and can cause burns. Wear approved alkali mist respirator if exposure is likely. Remove to fresh air. Give artificial respiration or oxygen if needed. Get prompt medical attention.
- Skin:** Corrosive. Causes irritation and burns. Wear alkali-resistant protective gloves, boots, and clothing. Provide convenient safety showers. Remove contaminated clothing. Flush skin thoroughly with water for 15 minutes. Get medical attention if burns persist.
- Eyes:** Corrosive. Causes eye damage. Wear splash proof goggles. Provide convenient eyewash stations. Flush immediately with water for 15 minutes. Get prompt medical attention.
- Ingestion:** Corrosive. Causes irritation and burning in mouth, esophagus, throat and stomach. Avoid swallowing. Can be fatal. Drink lots of water or, preferably, milk. Get medical attention if effects persist. Do not induce vomiting.

Most likely routes of entry: Skin, Eyes, Inhalation, Ingestion

Other Important Medical or Precautionary Information: None.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

---

Spills and Leaks: Small spills can be flushed into normal drainage or into ground with copious amounts of water, or taken up with absorbent material. Larger spills should be contained by diking or other methods and held for collection and/or reuse, or for neutralization with acid before collection & disposal. People should use eye and skin protection & respirator.

Storage and Handling: Check daily for any leaks from containers, vessels, pumps, and piping. Have water hoses and acid (caustic soda, lime, etc.) convenient. Only use containers and equipment designed for alkali service.

Waste Disposal: If neutralized, may be disposable in sewers if local regulations permit. Otherwise, send to licensed treatment and disposal facility. As supplied, this product is a RCRA hazardous waste.

Empty Containers: Rinse well before handling and disposal.

Other Precautions: n/a

---

## SECTION VIII - REGULATORY INFORMATION

---

Reportable for SARA Title III, S.313 (Form R): None.

---

The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, NYCO Products Company cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.