



## MATERIAL SAFETY DATA SHEET

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### 1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES  
 24 Hour INFOTRAC (US and CANADA): 800-535-5053

**PRODUCT NAME**  
 UNITED 499

**USE/DESCRIPTION**  
 X-Ray Drain Pipe Opener

**REVISION DATE**  
 May 5, 2010

#### HMIS III HEALTH (0 = Maximum Safety) 3

Always follow Label Directions and Cautions.

* Chronic	2 Moderate
4 Severe	1 Slight
3 Serious	0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

#### PHYSICAL HAZARD (0 = Maximum Safety) 2

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire.	2 Violent chemical change possible-use hose stream from distance
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.	1 Unstable if heated-use precaution.
	0 Normally stable.

#### FLAMMABILITY (0 = Maximum Safety) 0

Susceptibility of Material to Burning.

4 Extremely flammable.	1 Must be preheated
3 Ignites at normal temperature.	to burn.
2 Ignites when moderately heated.	0 Will not burn.

**PERSONAL PROTECTION: n & p**



### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Potassium Hydroxide	1310-58-3	45-55	C: 2mg/m3	NE	NE	NE

### 3. HAZARDS IDENTIFICATION

**Eyes:** Destructive to eye tissues on contact. Will cause severe burns that result in damage to the eyes including blindness. High vapor or mist concentrations may cause tissue destruction.

**Skin:** Destructive to tissues contacted and produces severe burns. A latent period may exist between exposure and sense of irritation.

**Inhalation:** Airborne concentrations of mist or spray may cause damage to the upper respiratory tract and to lung tissue. May cause pneumonitis.

**Ingestion:** Can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach. May be fatal if swallowed.

### 4. FIRST AID MEASURES

**Eyes:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding upper and lower lids open to ensure flushing of the entire surface. Tilt head to avoid contaminating unaffected eye. Get medical attention immediately.

**Skin:** Immediately wash contaminated areas with plenty of water for 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reused clothing until cleaned and discard footwear which can not be decontaminated. Do not apply oils or ointments unless ordered by the physician. If skin feels slippery, caustic may still be present in sufficient quantities to cause rash or burn.

**Inhalation:** Remove to fresh air; if breathing is difficult, have a trained person administer oxygen. Get medical attention immediately. If breathing stops, give CPR.

**Ingestion:** DO NOT INDUCE VOMITING. If fully conscious, drink a quart of water. Get medical attention immediately. Never give anything by mouth to an unconscious person. If available give several glasses of milk. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

### 5. FIRE FIGHTING MEASURES

**Flash Point (TCC):** None

**Explosive Limits:** Lower (LEL): ND Upper (UEL): ND

**Flame Projection (Aerosol):** NA

**Hazardous Products of Combustion:** None known. When strongly heated, as in a fire, may react with certain metals to produce flammable hydrogen gas.

**Fire and Explosion Hazards:** This material is corrosive to all human tissue. Reacts violently with many organic chemicals, especially nitrocarbons and chlorocarbons. Reacts with metals such as aluminum, zinc, and tin to release flammable hydrogen gas. Dilution with water evolves large amounts of heat.

**Extinguishing Media:** This product is not combustible. For fires in area use appropriate media: Water spray; Dry chemical; Carbon Dioxide; Alcohol foam.

**Fire Fighting Instructions:** Avoid direct contact of this product with water since this can cause a violent exothermic reaction. Wear self-contained breathing apparatus w/full protective clothing. Use water spray to cool fire-exposed containers. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products.

## 6. ACCIDENTAL RELEASE MEASURES

**Small Spills:** Follow personal protective equipment recommendations found in section 8. Contain the spill, place into drums for proper disposal. Neutralize remaining traces with dilute inorganic acid such as hydrochloric and phosphoric acid, and then flush with water. Place in a closed container for disposal. Avoid splashing or misting which could increase health hazards.

**Large Spills:** Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in section 8. Prevent entry into sewer and waterways. Contain the spill, place in a closed container for disposal. Neutralize remaining traces with dilute inorganic acid such as hydrochloric and phosphoric acid, then flush with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. Avoid splashing or misting which could increase health hazards.

## 7. HANDLING AND STORAGE

Keep containers tightly closed when not in use. Store in a cool, well ventilated area, out of direct sunlight. Product can react violently with water, acids, and other substances. Do not get into eyes, on skin, and on clothing. Use with adequate ventilation. Avoid breathing vapors, mists, or dust. Wash thoroughly after handling. Do not freeze.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Wear chemical safety goggles.

**Skin:** Chemical resistant gloves, rubber, neoprene, vinyl, PVC.

**Respiratory:** None needed for proper use in accordance with label directions. Use a NIOSH/MSHA approved respirators where mist or spray may be generated.

**Engineering Controls:** Provide adequate ventilation and provide local exhaust. Do not use in closed or confined spaces. Avoid creating dust or mist.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 271°      **Specific Gravity:** 1.46 (H<sub>2</sub>O=1)      **Vapor Pressure:** 2 mm Hg      **Melting Point:** ND  
**Vapor Density:** NA      **Evaporation Rate:** <1 (H<sub>2</sub>O=1)      **Solubility in Water:** Complete      **pH:** 13-14  
**Appearance and Odor:** Clear, or slightly hazy pink, syrupy liquid with no odor.

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition:** None known. Will react with certain metals to produce flammable hydrogen gas.

**Chemical Stability:** Stable

**Incompatibility:** Do not mix this product with other cleaning chemicals, especially strong acids or oxidizers (like bleach). Avoid contact with aluminum, tin, zinc, leather, organic halogen compounds, organic nitro compounds, acid or wool.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity (NTP/IARC/OSHA):** No

**California Proposition 65:** Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? No

## 12. ECOLOGICAL INFORMATION

Potassium Hydroxide: Aquatic Ecotoxicity: fish (flathead minnow): LC50 (96 hr): 179 mg/L.

## 13. DISPOSAL CONSIDERATIONS

Consult your local, state, provincial and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality. Neutralized waste is composed of salt and water.

## 14. TRANSPORT INFORMATION

**DOT:** Available upon request

**TDG:** Available upon request

**UN:** Available upon request

## 15. REGULATORY INFORMATION

**VOC(Volatile Organic Compounds):** None

**TSCA (Toxic Substances Control Act):** Listed

**SARA Title III Section 302 EHS:** None

**CERCLA RQ:** 1,000 lbs.

**SARA Title III Section 311/312:** ND

**SARA Title III Section 313 Toxic Chemicals:** None

## WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.