

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Liquid Alkaline Drain Opener  
Description: Alkaline Drain Opener  
Product Code: NTAL LADO  
Suggested Use: Drain opener RTU. For industrial use.  
Restrictions on Use: None

Supplier: NuTech Specialties, Inc.  
9811 South 6150 West  
West Jordan , UT 84081  
Telephone: 801-253-1000 (M-F) 8:00-5:00  
Fax: 801-280-0307  
Emergency Phone: 800-633-8253

## 2. HAZARDS IDENTIFICATION

### Classification:

GHS Classification: Acute Toxicity - Oral Category 4  
Skin corrosion/irritation Category 1  
Serious eye damage/eye irritation Category 1  
Corrosive to metals Category 1

### GHS Label Elements

Pictogram:



Signal Word: Danger  
Hazard Statements: Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May be corrosive to metals.

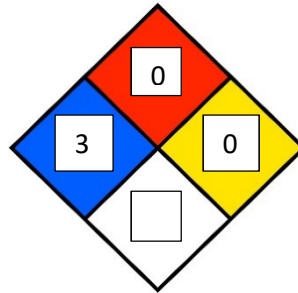
Precautionary Statements:

Keep only in original container.  
Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

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Do not breathe dust/fume/gas/mist/vapors/spray.  
Do not eat, drink or smoke when using this product.

HMIS Classification:



NFPA Rating:

<b>Health</b>	3
<b>Fire</b>	0
<b>Reactivity</b>	0
Personal Protection	C

Potential Health Effects:

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>Concentration</u>
Potassium Hydroxide	1310-58-3	>50%

Synonyms:

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### 4. FIRST AID MEASURES

If Inhaled:	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms are experienced
Skin Contact:	Flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, consult a physician.
Eye Contact:	Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. Immediately call a doctor or physician.

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If Ingested: Do not induce vomiting unless instructed to do so by physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.

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## **5. FIREFIGHTING MEASURES**

Extinguishing Media: Use water-spray, alcohol resistant foam, dry chemical, or carbon dioxide

Hazardous Combustion Products: Firefighting personnel should respond with appropriate protective clothing, firefighting gear, and breathing equipment as trained.

Special Protective Equipment for Firefighters: In fire conditions: a complex mixture of airborne solids, liquids, and gases including Carbon Monoxide, Carbon Dioxide, and unidentified organic compounds.

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## **6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Use personal protective equipment. Always ensure adequate ventilation.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent from entering drains and waterways. Discharge into environment must be avoided.

Containment and Clean Up: Soak up with inert absorbent material and dispose of. Keep in suitable, closed containers for disposal.

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## **7. HANDLING AND STORAGE**

Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. For industrial and commercial use only. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapors/spray.

Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials. Do not freeze.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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## Exposure Limits

Component	CAS Number	Exposure Limit	Basis
Potassium Hydroxide	1310-58-3	2 mg/m3	ACGIH TLV

**General Controls:** Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

## Personal Protective Equipment

**Eye Protection:** Tightly fitting safety glasses or goggles should be sufficient. Have eye-wash stations available where eye contact can occur.

**Hand Protection:** Handle with chemical resistant gloves. Gloves must be inspected prior to use. Wash and dry hands after use.

**Skin Protection:** Wear long sleeves, a chemical apron, or other protective clothing to prevent skin contact. Safety showers should be located in work area where skin contact can occur.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full face respirator with appropriate cartridges. Always ensure adequate ventilation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Clear
Odor:	None
Odor Threshold:	Not Available
pH:	>14
Melting/Freezing Point:	Not Available
Boiling Point:	1,320° C
Flash Point:	Not Flammable
Evaporation Rate:	Not Determined
Flammability (Solid, Gas):	Not Flammable
Flammability/Explosion Limits:	Not Flammable
Vapor Pressure @ 20°C:	Not Determined
Vapor Density:	Not Determined
Specific Gravity:	2.044 at 15.6°C (60°F)
Density:	1,300 kg/m3
Solubility in Water:	Soluble
Partition Coefficient:	Not Determined
Auto Ignition Temperature:	Not Determined
Decomposition Temperature:	Not Determined

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Viscosity @ 40°C:	Not Determined
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## 10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage conditions.
Conditions and Materials to Avoid:	Keep out of reach of children. Isolate from extreme heat and open flame. Keep from freezing.
Hazardous Decomposition Products:	Thermal decomposition can produce potassium oxide, sodium oxide, sodium hydroxide, hydrogen chloride, and phosgene. Carbon monoxide can be produced when mixed with carbohydrates and chloroacetylene when mixed with chlorinated alkenes and heat.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity- Not determined

Component	CAS Number	Test	Toxicity
Potassium Hydroxide	1310-58-3	Oral LD50 (rat)	333 mg/kg
		Dermal LD50	
		Inhalation LC50 (Fresh water mosquito fish)	80.0 mg/L (24 hours, static)

### Potential Health Effects

Inhalation:	Avoid breathing vapors or mists.
Skin:	Causes skin burns.
Eyes:	Causes serious eye damage.
Ingestion:	May be harmful if swallowed.
Signs and Symptoms of Exposure:	Causes serious eye damage. Causes skin burns. Prolonged or repeated exposure can remove natural skin oils and may produce irritation.
Chronic Effects of Long Term Exposure:	None known
Carcinogenicity:	Potassium Hydroxide is not listed on the IARC, OSHA or NTP carcinogen lists

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## 12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

Component	CAS Number	Organism	Ecotoxicity
Potassium Hydroxide	1310-58-3	None known	

Ecological Effects

Persistence and Degradability: Not determined  
Bioaccumulation Potential: Not determined  
Mobility in Soil: Not determined  
Other Adverse Effects: Not determined

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## 13. DISPOSAL CONSIDERATIONS

Disposal: Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region.  
Contaminated Packaging: Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

DOT Information

Proper Shipping Name: Potassium Hydroxide, Solution  
UN Number: UN1813  
Hazard Class: 8  
Packing Group: II  
Reportable Quantity (RQ): 1000 lbs (100% KOH basis)  
Marine Pollutant: No  
Note:

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## 15. REGULATORY INFORMATION

### US Federal

SARA 302 Components: Not Listed  
SARA 311/312 Hazards: EPCRA reporting quantities: TQ: 10,000 lbs (100% KOH basis)  
SARA 313 Components: Not Regulated  
TSCA Inventory: CAS# 1310-58-3 is listed on the TSCA inventory

### European Union

EC Inventory: No

### State Regulations

Utah Clean Air: No

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## 16. OTHER INFORMATION

SDS Version: 1.0  
Revision Date: 05/30/2017  
Supercedes: New to GHS

### **Notice to Reader:**

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 the 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.

NuTech Specialites, Inc.

Validated on:

Product: Liquid Alkaline Drain Opener