

**MSDS DATE: 06/27/08**

---

## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

**Trade Name** : E-Max Alkali  
**Product Code** : 004112  
**Material Uses** : Industrial Laundry

**Supplier/Manufacturer** : Dober  
11230 Katherine's Crossing  
Woodridge, IL 60517

**Emergency Phone** : 800-255-3924 (Chem-Tel)  
**Information Phone** : 630-410-7300

---

## **SECTION 2: HAZARDS IDENTIFICATION**

---

**Physical State and Appearance** : Liquid

**Emergency Overview** : DANGER! Corrosive to skin, eyes, and causes irritation to respiratory tract.

**Routes of Entry** : Skin, eye, ingestion and inhalation contact.

**Potential Acute Health Effects**

<b>Eyes</b>	: Causes eye burns.
<b>Skin</b>	: Causes skin burns.
<b>Ingestion</b>	: Causes burns to mouth, throat, and digestive tract.
<b>Inhalation</b>	: Causes respiratory tract irritation.

**Potential Chronic Health Effects**

	: Carcinogenic effects: Not classified by IARC, NTP, OSHA or ACGIH.
	Mutagenic effects: Not available
	Teratogenic effects: Not available

---

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

---

<b>Ingredient:</b>	<b>CAS No.</b>	<b>% by weight</b>
Sodium Hydroxide	1310-73-2	40-60

See Section 8 for Exposure Limits.

See Section 11 for Toxicological Data.

---

## **SECTION 4: FIRST AID MEASURES**

---

**Eye Contact** : In case of contact immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses if worn. Get medical attention immediately.

**Skin Contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Ingestion** : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Inhalation** : If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical attention.

**Notes to Physician** : Contact Poison Control.

---

## SECTION 5: FIRE-FIGHTING MEASURES

---

<b>Flammability of the product</b>	: Not flammable
<b>Flash Points (Test Method)</b>	: Not applicable
<b>Flammable Limits in Air (% by volume)</b>	
Lower	: Not applicable
Upper	: Not applicable
<b>Extinguishing Media</b>	: In case of fire, use water fog, dry chemical, CO <sub>2</sub> , or foam. Water may be ineffective.
<b>Special Firefighting Procedures</b>	: Wear SCBA and protective clothing.
<b>Unusual Fire and Explosion Hazards</b>	: Contact with some reactive metals may produce flammable hydrogen gas.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

<b>Personal Precautions</b>	: Use appropriate personal protective equipment.
<b>Environmental Precautions</b>	: Do not flush to sewer or allow to enter waterways.
<b>Methods for Cleaning Up</b>	: Absorb spill onto sand, clay, etc. and shovel into steel container for disposal.

---

## SECTION 7: HANDLING AND STORAGE

---

<b>Handling and Storage</b>	: Keep container closed. Do not contact eyes or skin. Do not take internally.
<b>Other Precautions</b>	: FOR INDUSTRIAL USE ONLY.

---

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### Exposure Limits

**Ingredient Name**  
Sodium Hydroxide

### **Exposure Limits ACGIH**

2 mg/m<sup>3</sup> ceiling

### **Engineering Controls**

: Keep airborne concentrations below personal exposure limits. General exhaust is sufficient when material is used as intended.

### Personal Protection

<b>Eyes</b>	: Chemical splash goggles.
<b>Skin</b>	: Protective apron or lab coat to prevent skin contact.
<b>Respiratory</b>	: Not required when material is used as intended.
<b>Hands</b>	: Chemical resistant, nitrile gloves.

**Personal Protection in Case  
Of a Large Spill** : Use appropriate personal protective equipment.

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**Physical State and** : Clear liquid

**Appearance**

**Color** : Water white to slight yellow

**Odor** : None

**Density** : 12.4 lb/gal

**(H<sub>2</sub>O = 1)**

**% Volatiles by volume** : 55

**Viscosity** : Not determined

**Solubility** : Completely soluble in water

---

## SECTION 10: STABILITY AND REACTIVITY

---

<b>Stability and reactivity</b>	: Stable.
<b>Conditions of instability</b>	: None known.
<b>Incompatibility with various Substances</b>	: Strong oxidizers, strong acids.
<b>Hazardous Decomposition Products</b>	: Oxides of carbon, oxides of nitrogen, oxides of sulfur.
<b>Hazardous Polymerization</b>	: Will not occur.

---

## SECTION 11: TOXICOLOGICAL INFORMATION

---

Irritation data: skin, rabbit: 500 mg/24H severe; eye rabbit: 50 ug/24H severe; investigated as a mutagen.

<b>Potential Chronic Health Effects</b>	: Carcinogenic effects: Not classified by IARC, NTP, OSHA or ACGIH. Mutagenic effects: Not available Teratogenic effects: Not available
---	---

---

## SECTION 12: ECOLOGICAL INFORMATION

---

<b>Environmental Precautions</b>	: Degrades readily by reacting with natural carbon dioxide in the air. Does not bioaccumulate.
<b>Products of Degradation</b>	: Some metallic oxides

---

## SECTION 13: DISPOSAL CONSIDERATIONS

---

<b>Waste Disposal Method</b>	: Comply with all federal, state, and local regulations. Consult state and local authorities for restrictions on disposal of chemical waste. If approved, may be diluted and drained to a municipal sewer or waste treatment plant. Rinse empty container thoroughly with water before discarding.
------------------------------	--

---

## SECTION 14: TRANSPORT INFORMATION

---

Regulatory Information	UN Number	Proper Shipping Name	Class	Packing Group	Additional Information
United States (DOT)	1824	Sodium hydroxide solution	8	III	--
IMDG	1824	Sodium hydroxide solution	8	III	--
IATA	1824	Sodium hydroxide solution	8	III	--

---

## SECTION 15: REGULATORY INFORMATION

---

<b>U.S. Federal Regulations</b>	: Available on request.
<b>State Regulations</b>	: Available on request.
<b>International Regulations</b>	: Available on request.

---

**SECTION 16: OTHER INFORMATION**

---

**Label Requirements** : Corrosive to skin, eyes, and causes irritation to respiratory tract.

**Hazardous Material  
Information System (U.S.A.)**

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

**Hazard Ratings**

4 = Extreme  
3 = Serious  
2 = Moderate  
1 = Slight  
0 = Minimal

\* See section 8 for more  
detailed information  
on personal protection

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



**References** : Available on request.

**Disclaimer**

All information, recommendations, and suggestions appearing herein concerning this compound are based upon data obtained from the raw material manufacturers and/or recognized technical sources; however, Dober Chemical Corp. makes no warranty, representation, or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product. Since actual use by others is beyond our control, Dober Chemical makes no warranty, express or implied, as to the effects of such use, the results to be obtained or the safety and toxicity of the product. The data in this MSDS relate only to the specific product designated herein and do not relate to use in combination with any other material or in any process.