



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 591  
Effective Date May 4, 1999

## SECTION V HEALTH HAZARD DATA

SS 591

### Threshold Limited Value

TWA (Ceiling limit for sodium hydroxide solid) is 2 mg/m<sup>3</sup> (ACGIH 1992-93).

### Effects of Overexposure

May cause severe burns to skin, eyes and mucous membranes. Ingestion may cause burns to mouth, severe stomach pain, bloody diarrhea, vomiting and swelling of the throat. Inhalation of mist may cause mucous membrane irritation or burns, coughing, dyspnea or ulceration of nasal passages.

### Emergency and First Aid Procedures

**SKIN:** Flood with water, then wash with vinegar. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give one or two glasses of milk or water. Call physician immediately. If vomiting, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **INHALATION AS MIST:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Keep container tightly closed. Absorbs carbon dioxide from air to form Sodium Carbonate.
	Stable	X	

Incompatibility (Materials to Avoid)	Common metals and their alloys (See Section IV); acids and their anhydrides; easily oxidizable compounds.
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Hazardous Decomposition Products	May release toxic fumes of sodium oxide.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Neutralize spill with dilute Hydrochloric acid and flush to sewer with copious amounts of water. Wash spill area with soap and water.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.  Neutralize with dilute Hydrochloric acid and flush to sewer with copious amounts of water.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be required in normal laboratory handling. For misty conditions, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety goggles.
Other Protective Equipment	Smock, apron, goggles, face shield, proper gloves, ventilation hood, eye wash station.			

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool place away from acids or acid fumes. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
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**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.

Do not breathe the mist.  
Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 2	Date	5/4/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	SODIUM HYDROXIDE, 0.25 M/0.25 N SOLUTION
Chemical Synonyms	Sodium Hydroxide, Water Solution
Formula	Mixture. See Section II.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture. See Section II.

**CHEMTREC**  
800-424-9300  
Day 716-226-6177

**NFPA HAZARD RATING**  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

**HMIS \***  
Health 2  
Fire 0  
Reactivity 1

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Hydroxide: (CAS No. 1310-73-2)	1%	2 mg/m <sup>3</sup> (air)
Water: (CAS No. 7732-18-5)	99%	None established.
<b>DANGER! CORROSIVE! MAY CAUSE BURNS.</b>		
<b>HARMFUL IF SWALLOWED.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Below 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.1
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	Lower	Upper
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Extinguisher Media	Use water on fire involving this material.			

### SPECIAL FIREFIGHTING PROCEDURES

Wear chemical safety goggles. In fire conditions, wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Flood with water, using care not to splatter or splash this material.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Will release flammable and explosive hydrogen gas when in contact with aluminum, lead, tin, zinc, and their alloys.

D.O.T. SODIUM HYDROXIDE SOLUTION, 8, UN 1824, PG II

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20