



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 550  
Effective Date May 3, 1999

## SECTION V HEALTH HAZARD DATA SS 550

**Threshold Limited Value** TLV/TWA: 2 mg/m<sup>3</sup> (Air) (Ceiling value, as 100%)  
(ACGIH 1992-93).

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** Respiratory system, lungs, eyes, skin.  
**INGESTION:** May result in severe intestinal irritation with burns to mouth, throat and stomach with nausea and vomiting. **SKIN AND EYES:** Contact with skin or eyes may cause severe irritation or burns. **INHALATION:** Severe irritation to respiratory system with pulmonary edema, lung inflammation.

**Emergency and First Aid Procedures** **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give large amounts of water to drink. Follow with egg white, beaten with water. Call physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Immediately flush with large amounts of water for 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **SKIN:** Flood with water, then wash with vinegar. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Moisture, acids and acid fumes.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Can react violently with acids and with many organic compounds. Reacts with most common metals (zinc, aluminum, tin, lead, etc.) liberating flammable hydrogen gas.

**Hazardous Decomposition Products** May form sodium monoxide and/or sodium peroxide at very high temperatures.

<b>Hazardous Polymerization</b>	<b>May Occur</b>	<b>Will Not Occur</b>	<b>Conditions to Avoid</b>	Not applicable.
		X		

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Carefully and wearing protective clothing, sweep up and place in a suitable container. Flush spill area with water, rinse with dilute acid, preferably acetic, and finally with water.

**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. Avoid breathing dust or mist. Wear full protective clothing including goggles or face shield. Slowly dissolve spill in water. While making solution add slowly to surface of stirred liquid to avoid violent splattering. Neutralize with sodium bisulfate and flush to sewer with copious amounts of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None required in normal laboratory handling. If dusty conditions prevail, use a high efficiency particulate respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	<b>No.</b>
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	<b>No.</b>

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety goggles, or face shield where appropriate.
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**Other Protective Equipment** Goggles, lab coat, apron, ventilation hood, proper gloves, eye wash station.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Keep container tightly closed. Store in a cool, dry place; protect against moisture and water. Separate from acids, metals, explosives, organic peroxides and easily ignitable materials. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals. Product is deliquescent and absorbs water and carbon dioxide from air. Sodium hydroxide and trichloroethylene are especially hazardous since they react to form spontaneously flammable dichloroacetylene. Wash contaminated clothing promptly.

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

<b>Revision</b> No. 7	<b>Date</b> 5/3/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> 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

<b>Product</b>	SODIUM HYDROXIDE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>3</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>2</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	3	Fire	0	Reactivity	2
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	3																	
Fire	0																	
Reactivity	2																	
<b>Chemical Synonyms</b>	Caustic Soda; Lye																	
<b>Formula</b>	NaOH																	
<b>Unit Size</b>	up to 2.5 Kg.																	
<b>C.A.S. No.</b>	1310-73-2																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Hydroxide	96-100%	See Section V.

**DANGER! CORROSIVE! POISON** 

**CAUSES SEVERE SKIN AND EYE BURNS. MAY BE FATAL**

**IF SWALLOWED. DO NOT INHALE AS DUST OR MIST.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	318°C (604°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	2.130 at 25°C
<b>Boiling Point (°F)</b>	1390°C (2534°F)	<b>Percent Volatile by Volume (%)</b>	Negligible as solid.
<b>Vapor Pressure (mm Hg)</b>	< 1 @ 20°C	<b>Evaporation Rate</b>	( =1) Non-volatile (NA).
<b>Vapor Density (Air=1)</b>	N/A		
<b>Solubility in Water</b>	Appreciable > 10%		
<b>Appearance &amp; Odor</b>	White pellets, flakes or beads; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible (NA).	<b>Flammable Limits in Air % by Volume</b>	NA	<b>Lower</b>	<b>Upper</b>
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**Extinguisher Media** Use water spray on fire involving this material.

## SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Must include complete eye protection. Flood with water, using care not to splatter or splash this material. Contact with water produces intense heat and highly irritating and corrosive mist.

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

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Not combustible but solid form in contact with moisture or water may generate sufficient heat to ignite combustible materials. Contact with most metals can generate hydrogen gas. Hot or molten material will react violently with water liberating heat and causing splashing. A severe eye hazard; solid or concentrated solution destroys tissue on contact.

D.O.T. SODIUM HYDROXIDE, SOLID, 8, UN 1823, PG II

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