



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 592  
Effective Date August 10, 1998

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	POTASSIUM HYDROXIDE, 2M/2N Solution	 <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													
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Health	3																	
Fire	0																	
Reactivity	2																	
<b>Chemical Synonyms</b>	Potassium hydroxide 2 Molar/ 2 Normal																	
<b>Formula</b>	Mixture																	
<b>Unit Size</b>	up to 4 Lt.																	
<b>C.A.S. No.</b>	Mixture																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Hydroxide: (CAS No. 1310-58-3)	11.22%	See Section V.
Water: (CAS No. 7732-18-5)	88.78%	None established.
<p><b>DANGER! CORROSIVE!</b>  <b>POISON</b>  <b>CAUSES SEVERE BURNS. MAY BE FATAL IF SWALLOWED.</b></p>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Data not available.	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.2
Boiling Point (°F)	Data not available.	Percent Volatile by Volume (%)	88.78%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	< 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

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	NA	Lower	Upper
<b>Extinguisher Media</b>	Use any media suitable for extinguishing supporting fire.				

## SPECIAL FIREFIGHTING PROCEDURES

Wear chemical safety goggles. If involved in fire situation, wear a 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 other alloys. Can react vigorously with acids. Can react with ammonium compounds, releasing ammonia fumes.

D.O.T. POTASSIUM HYDROXIDE, SOLUTION, 8, UN 1814, PG II

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

## SECTION V HEALTH HAZARD DATA

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<b>Threshold Limited Value</b>	TWA (Ceiling limit for Potassium Hydroxide solid) is 2 mg/m <sup>3</sup> (ACGIH 1992-93).
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<b>Effects of Overexposure</b>	Corrosive to skin, eyes and mucous membranes. Causes severe irritation and/or burns. Causes damage to respiratory tract tissues. Ingestion causes severe burns and tissue damage to digestive tract.
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<b>Emergency and First Aid Procedures</b>	<p><b>SKIN:</b> Flood with water, then wash with vinegar. <b>INGESTION:</b> If swallowed, <b>DO NOT</b> induce vomiting. If conscious, drink large quantities of water. Call physician immediately. Never give anything by mouth to an unconscious person. <b>EYES: IMMEDIATELY</b> flush thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. <b>INHALATION AS MIST:</b> Remove to fresh air. If illness or discomfort develops, get medical attention.</p>
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## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Keep container tightly closed. Absorbs carbon dioxide from air to form potassium carbonate.
	<b>Stable</b>	X		

<b>Incompatibility (Materials to Avoid)</b>	Common metals and their alloys (See Section IV); acids and their anhydrides; easily oxidizable materials.
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<b>Hazardous Decomposition Products</b>	In fire conditions, Potassium Oxide.
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<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>
<b>May Occur</b>	<b>Will Not Occur</b>
	X
	Not applicable.

## SECTION VII SPILL OR LEAK PROCEDURES

<b>Steps to be taken in case material is released or spilled</b>	Neutralize spill with sodium bisulfite and flush to sewer with copious amounts of water.
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<b>Waste Disposal Method</b>	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 spill with sodium bisulfite and flush to sewer with copious amounts of water.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

<b>Respiration Protection (Specify Type)</b>	None should be needed in normal laboratory handling. For misty conditions, work in a well-ventilated hood or wear a NIOSH/MSHA-approved respirator.		
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<b>Ventilation</b>	<b>Local Exhaust</b>	Not required.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Not required.	<b>Other</b>	No.

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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<b>Other Protective Equipment</b>	Smock, apron, goggles, face shield, proper gloves, ventilation hood, eye wash station.
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## SECTION IX SPECIAL PRECAUTIONS

<b>Precautions to be Taken in Handling &amp; Storing</b>	Store in a cool place away from acids or acid fumes. Wash thoroughly after handling.
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<b>Other Precautions</b>	Read label on container before using. Do not wear contact lenses when working with chemicals.
	Remove and wash contaminated clothing.

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

<b>Revision</b>	No. 1	<b>Date</b>	8/10/98	<b>Approved</b>	Michael Raszeja	<b>Chemical Safety Coordinator</b>	MR
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