



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. PP 596
Effective Date February 6, 1997

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	POTASSIUM HYDROXIDE, 2% AQUEOUS SOL'N	 <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>2</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	2	Fire	0	Reactivity	2
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
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Health	2																	
Fire	0																	
Reactivity	2																	
Chemical Synonyms	Caustic Potash Solution, 2%																	
Formula	Mixture.																	
Unit Size	30 mL. (1 oz.)																	
C.A.S. No.	Mixture.																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Hydroxide: (CAS No. 1310-58-3)	2%	See Section V.
Water: (CAS No. 7732-18-5)	98%	None established.
DANGER! CORROSIVE! MAY CAUSE BURNS. HARMFUL IF SWALLOWED.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes below 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	98%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	Slightly less than 1.
Vapor Density (Air=1)	0.7 (water).		
Solubility in Water	Complete.		
Appearance & Odor	Clear, water white, water solution; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	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 to prevent contact with skin and eyes. Flood with water, using care not to splatter or splash this material.

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. **NON-REGULATED.**

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

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value TWA (Ceiling limit for Potassium Hydroxide solid) is 2 mg/m³ (ACGIH 1992-93).

Effects of Overexposure **DANGER! CORROSIVE! MAY CAUSE BURNS TO SKIN, EYES AND MUCOUS MEMBRANES. HARMFUL IF SWALLOWED.** Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures **SKIN:** Flood with water, then wash with vinegar. **INGESTION:** If swallowed, **DO NOT** induce vomiting. If conscious, drink large quantities of water. Call physician immediately. Never give anything by mouth to an unconscious person. **EYES: IMMEDIATELY** flush thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INHALATION:** Remove to fresh air. If not breathing, administer 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 potassium carbonate.

Incompatibility (Materials to Avoid) Common metals and their alloys (See Section IV); acids and their anhydrides; easily oxidizable materials.

Hazardous Decomposition Products In fire conditions, Potassium Oxide.

Hazardous Polymerization **Conditions to Avoid** **May Occur** **Will Not Occur** Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Neutralize spill with sodium bisulfite and flush to sewer with copious amounts of 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. Neutralize spill with sodium bisulfite and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. For misty conditions, work in a well-ventilated hood or wear a NIOSH/MSHA-approved respirator.

Ventilation **Local Exhaust** Not required. **Special** No. **Mechanical (General)** Not required. **Other** No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

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. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

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

Revision No. 3 Date 2/06/97 Approved Michael Raszeja Chemical Safety Coordinator MR

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