



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. PP 600  
Effective Date November 16, 1998

## SECTION V HEALTH HAZARD DATA

PP 600

### Threshold Limited Value

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

### Effects of Overexposure

May cause irritation or burns to skin, eyes and mucous membranes.  
Exercise appropriate procedures to minimize potential hazards.

### Emergency and First Aid Procedures

**SKIN:** Flush thoroughly with water then wash with vinegar. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **INGESTION:** If swallowed, if conscious, drink large quantities of water. Call a physician. Never give anything by mouth to an unconscious person. **INHALATION AS MIST:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

## SECTION VI REACTIVITY DATA

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

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	In fire conditions: Potassium 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 sodium bisulfate and flush to sewer with copious amounts of 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 sodium bisulfate and flush to sewer with copious amounts of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be required in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.		
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Ventilation	Local Exhaust	Not required.	Special	No.
	Mechanical (General)	Not required.	Other	No.

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

Precautions to be Taken in Handling & Storing	Store in a cool place away from acids or acid fumes. 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.
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Avoid contact with skin, eyes and clothing. Do not breathe 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. 5	Date 11/16/98	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	POTASSIUM HYDROXIDE 0.1 N / 0.1 M SOLUTION
Chemical Synonyms	Potassium Hydroxide, Water Solution
Formula	Mixture. See Section II.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture. See Section II.

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

**HEALTH** 1  
**FIRE** 0  
**REACTIVITY** 1  
**HMIS \***  
3 4

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

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Hydroxide: (CAS No. 1310-58-3)	0.57%	See Section V.
Water: (CAS No. 7732-18-5)	99.43%	None established.

WARNING! CORROSIVE! MAY CAUSE IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.		
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## SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	99.43%
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, 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
		NA	-----	-----

Extinguisher Media	Use water on fire involving this material.
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### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, 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 their alloys. Can react vigorously with acids.

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

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