



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. PP 591
Effective Date June 10, 1999

SECTION V HEALTH HAZARD DATA

PP 591

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

Effects of Overexposure Causes burns to skin, eyes and mucous membranes. Causes burns and tissue damage to digestive tract. 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:** Flush with water for 15 minutes, lifting lower and upper eyelids occasionally. Get prompt 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 Potassium Carbonate.
Stable	X	

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

Hazardous Decomposition Products In fire conditions: Potassium Oxide.

Hazardous Polymerization

May Occur	Will Not Occur	Conditions to Avoid 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.

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. For mist conditions work in ventilation 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. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.
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.
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 6/10/99	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	POTASSIUM HYDROXIDE, 1.0 N/1.0 M SOLUTION
Chemical Synonyms	N/A
Formula	Mixture.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture.

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

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

Health	2
Fire	0
Reactivity	1

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Hydroxide: (CAS NO. 1310-58-3)	5.7%	See Section V.
Water: (CAS No. 7732-18-5)	94.3%	None established.

DANGER! CORROSIVE! CONTACT MAY CAUSE BURNS TO SKIN AND EYES. HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H₂O = 1)	Approx. 1.1
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	94.3%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (water = 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.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media Use water on fire involving this material.

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 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