



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. WW 30
Effective Date June 2, 1999

SECTION V HEALTH HAZARD DATA

WW 30

Threshold Limited Value

None established for this mixture.
TWA for Sodium Hydroxide: (CAS No. 1310-73-2). Ceiling limit 2 mg/m³.

Effects of Overexposure

Sodium hydroxide is a strong alkali; it can be destructive of all human tissues it contacts; produces severe burns. **EYES OR INHALATION:** Can cause permanent injury. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, drink large quantities of milk or water. Call physician immediately. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Reacts with carbon dioxide from the air to form sodium carbonate.
	Stable		

Incompatibility (Materials to Avoid)	Acids and strong oxidizers. Avoid contact with leather, wool, aluminum, tin, zinc and alloys which contain these metals.
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Hazardous Decomposition Products	Fire or excessive heat may produce iodine vapor, a corrosive material.
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Neutralize with sodium bisulfate and flush to sewer with copious amounts of water. Follow by flushing spill area with 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.
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SECTION VIII SPECIAL PROTECTION INFORMATION

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

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, apron, eye wash station, proper gloves, face shield.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool place away from acids and acid fumes or oxidizing materials. Wash thoroughly after handling. <small>Keep container tightly closed when not in use.</small>
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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. Do not breathe mist. Use with caution in performing laboratory experiments. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 4	Date	6/2/99	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	WINKLER'S SOLUTION #2
Chemical Synonyms	Winkler's Oxygen Determining Solution
Formula	Mixture.
Unit Size	up to 3.785 Lt.
C.A.S. No.	Mixture.

	CHEMTREC 800-424-9300 Day 716-226-6177	Health	3
		Fire	0
		Reactivity	1
NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4		HMIS * 0 1 2 3 4	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Hydroxide: (CAS No. 1310-73-2)	50%	See Section V.
Potassium Iodide: (CAS No. 7681-11-0)	16%	None established.
Water: (CAS No. 7732-18-5)	34%	None established.

DANGER! CORROSIVE! CAUSES SEVERE BURNS. MAY BE FATAL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes at approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.5
Boiling Point (°F)	100°C (212°F) water	Percent Volatile by Volume (%)	34%
Vapor Pressure (mm Hg)	14 mm (water)	Evaporation Rate (Water = 1)	1 (water)
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 any media suitable for extinguishing supporting fire.
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SPECIAL FIREFIGHTING PROCEDURES

If involved in a fire, flood with water, taking care not to splatter or splash. Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. A severe eye hazard; destroys tissue on contact.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Contact with some metals can generate hydrogen gas (a flammable gas). Fire or excessive heat may produce hazardous decomposition product of iodine vapor, a corrosive material.

D.O.T. **SODIUM HYDROXIDE SOLUTION, 8, UN 1824, PG II**

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