



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 |
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| 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 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. |
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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 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. |
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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. 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

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

| Health | 3 |
|------------|---|
| Fire | 0 |
| Reactivity | 1 |

HMIS *

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

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|------------------------|-----------------------------------|---|-------------|
| 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