



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. SS 582  
Effective Date May 4, 1999

## SECTION V HEALTH HAZARD DATA

SS 582

### Threshold Limited Value

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

### Effects of Overexposure

May cause severe burns to skin, eyes and mucous membranes. Ingestion may cause burns to mouth, severe stomach pain, bloody diarrhea, vomiting and swelling of the throat. Inhalation of mist may cause mucous membrane irritation or burns, coughing, dyspnea or ulceration of nasal passages.

### 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. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for 15 minutes, lifting lower and upper eyelids occasionally. Get immediate 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 Sodium Carbonate. |
|           | Stable   |                     |  |

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

|                                  |  |
|----------------------------------|--|
| Hazardous Decomposition Products | May release toxic fumes of sodium oxide. |
|----------------------------------|--|

|                          |                |                     |
|--------------------------|----------------|---------------------|
| 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 dilute Hydrochloric acid and flush to sewer with copious amounts of water. Wash spill area with soap and 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.<br>Neutralize with dilute Hydrochloric acid 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 misty conditions, work in ventilation hood or wear a NIOSH/MSHA-approved respirator. |              |                |                          |
| Ventilation                           | Local Exhaust   | Recommended. | Special        | No.                      |
|                                       | Mechanical (General)  | Recommended. | Other          | No.                      |
| Protective Gloves                     | Rubber.   |              | Eye Protection | Chemical safety goggles. |
| 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, or on clothing. Wash thoroughly after handling. |
|---|---|

|                   |   |
|-------------------|---|
| Other Precautions | Read label on container before using. Do not wear contact lenses when working with chemicals.<br><br>Do not breathe mist.<br>Remove and wash contaminated clothing. |
|-------------------|---|

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

|                |             |                          |                             |    |
|----------------|-------------|--------------------------|-----------------------------|----|
| Revision No. 2 | Date 5/4/99 | Approved Michael Raszeja | Chemical Safety Coordinator | MR |
|----------------|-------------|--------------------------|-----------------------------|----|

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           | SODIUM HYDROXIDE, 0.5 M/0.5 N SOLUTION |
| Chemical Synonyms | Sodium Hydroxide, Water Solution       |
| Formula           | Mixture. See Section II.               |
| Unit Size         | up to 3.785 Lt.                        |
| C.A.S. No.        | Mixture. See Section II.               |

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

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

|            |   |
|------------|---|
| Health     | 2 |
| Fire       | 0 |
| Reactivity | 1 |

HMIS \*

## SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s)                | %   | TLV Units                 |
|---------------------------------------|-----|---------------------------|
| Sodium Hydroxide: (CAS No. 1310-73-2) | 2%  | 2 mg/m <sup>3</sup> (air) |
| Water: (CAS No. 7732-18-5)            | 98% | None established.         |
| DANGER! CORROSIVE! MAY CAUSE BURNS.   |     |                           |
| HARMFUL IF SWALLOWED.                 |     |                           |

## SECTION III PHYSICAL DATA

|                        |                                   |   |                 |
|------------------------|-----------------------------------|---|-----------------|
| Melting Point (°F)     | Below 0°C (32°F)                  | Specific Gravity (H <sub>2</sub> O = 1) | Approx. 1.1     |
| Boiling Point (°F)     | Approx. 100°C (212°F)             | Percent Volatile by Volume (%)          | 98%             |
| Vapor Pressure (mm Hg) | 14 (water)                        | Evaporation Rate (Ether = 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 (NA).                        | Flammable Limits in Air % by Volume | NA | Lower | Upper |
|                           |  |                                     |    | ----- | ----- |
| Extinguisher Media        | Use water on fire involving this material. |                                     |    |       |       |

### SPECIAL FIREFIGHTING PROCEDURES

Wear chemical safety goggles. In fire conditions, wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Flood with water, using care not to splatter or splash this material.

(19963 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.

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

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