MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
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MSDS No. SS0600
Effective Date January 1, 2007

SECTION I NAME

Product	Sodium Hydroxide, 0.1 Molar Solution (0.1N)
Chemical Synonyms	Sodium Hydroxide, Water Solution
Formula	Mixture.
Unit Size	up to 3.785 Lt.
C.A.S. No.	Mixture.

24 HOUR EMERGENCY ASSISTANCE

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

NFPA: 0 / 3 / 1

HMIS *	
Health	2
Fire	0
Reactivity	1

HAZARD RATING

MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE
0	1	2	3	4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium hydroxide: CAS No. 1310-73-2	0.4%	TWA: C 2 mg/m^3
Water: CAS No. 7732-18-5	99.6%	N/A
DANGER! CORROSIVE!		

HARMFUL IF SWALLOWED. CAUSES BURNS TO SKIN AND EYES. DO NOT INHALE AS DUST OR MIST.

SECTION III PHYSICAL DATA

Melting Point (°F)	0°C (32°F)	Specific Gravity (H_2O = 1)	~ 1.1
Boiling Point (°F)	~ 100°C (212°F)	Percent Volatile by Volume (%)	99.6%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (=1)	< 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
Extinguisher Media	Use water spray on fire involving this material.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Must include complete eye protection. Flood with water, using care not to splatter or splash this material.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume. Contact with most metals can generate hydrogen gas. A severe eye hazard; solid or concentrated solution destroys tissue on contact.

D.O.T. **Sodium hydroxide solution, 8, UN1824, PG II, Ltd Qty ≤ 1 Lt.**

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

SECTION V HEALTH HAZARD DATA SS0600

Threshold Limited Value

None established for this solution. (ACGIH 2001)

Effects of Overexposure

INGESTION: Severe burns and complete tissue perforation of mucous membranes of the mouth, throat and stomach. **SKIN AND EYES:** Contact with skin or eyes may cause severe irritation or burns. **INHALATION:** Exposure can produce burns of the respiratory tract. Severe exposure could result in chemical pneumonia. Target organs: Respiratory and gastrointestinal tracts, eyes, skin.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** 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**
	Stable	X	Deliquescent material. Can slowly pick up moisture from air and react with carbon dioxide to form sodium carbonate.

Incompatibility (Materials to Avoid) Metals, acids, organic halogen compounds, organic nitro compounds.

Hazardous Decomposition Products Sodium oxide. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

Hazardous Polymerization		**Conditions to Avoid**
May Occur	**Will Not Occur**	
	X	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Wearing protective clothing, absorb spill with an inert dry material, sweep up and place in a suitable container for disposal. 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.

Dispose of in accordance with all federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None required in normal laboratory handling. If misty conditions prevail, use a high efficiency particulate respirator.

Ventilation				
	Local Exhaust	Recommended.	**Special**	No.
	Mechanical (General)	Recommended.	**Other**	No.

Protective Gloves	Rubber.	**Eye Protection**	Chemical safety goggles, or face shield where appropriate.

Other Protective Equipment Goggles, lab coat, apron, ventilation hood, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool, dry place. Product can react violently with acids and other substances. Avoid contact with skin, eyes and clothing. Do not take internally. Avoid inhalation of vapor or spray. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Sodium hydroxide and trichloroethylene are especially hazardous since they react to form spontaneously flammable dichloroacetylene. Wash contaminated clothing before reuse.

Revision No. 8	Date 01/01/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB