



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 610  
Effective Date March 25, 1998

## SECTION V HEALTH HAZARD DATA

SS 610

**Threshold Limited Value** None established (ACGIH 1983-84).

**Effects of Overexposure** **CAUTION! IRRITANT.** Avoid contact with eyes, skin, and mucous membranes. Harmful if swallowed. **INHALATION:** Vapors are irritating to the upper respiratory tract. Prolonged exposure may result in delayed pulmonary edema. **EYES:** Contact with the liquid or vapor causes irritation. **SKIN:** Causes irritation.

**Emergency and First Aid Procedures** **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give one or two glasses of water to drink. Call physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. Call a physician. If symptoms of illness develop, get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Direct sunlight, high temperatures.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Do not mix with acids. Oxidizable materials. Ammonia.

**Hazardous Decomposition Products** Chlorine given off on contact with acids. Thermal decomposition or burning may produce hydrogen chloride gas.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		Not applicable.
	<b>May Occur</b>	<b>Will Not Occur</b>	
		X	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Dilute with large amounts of water and flush down drain.

**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.

Flush to sewer with copious amounts of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None required in normal laboratory handling. If necessary work in ventilation hood or wear a NIOSH/MSHA-approved respirator fixed with cannister for chlorine gas.

<b>Ventilation</b>	<b>Local Exhaust</b>	Acceptable.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Acceptable.	<b>Other</b>	No.

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**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 and protect from sunlight. 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.

Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

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

<b>Revision</b> No. 5	<b>Date</b> 3/25/98	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	SODIUM HYPOCHLORITE, SOLUTION	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> Health 1 Fire 0 Reactivity 1
<b>Chemical Synonyms</b>	Bleaching Solution, 5%	
<b>Formula</b>	NaClO	
<b>Unit Size</b>	up to 4 Lt.	
<b>C.A.S. No.</b>	7681-52-9	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Hypochlorite, Solution; Available Chlorine	5%	None established.
Water: (CAS No. 7732-18-5)	95%	None established.
Sodium Carbonate: (CAS No. 497-19-8)	0.1%	None established.

**CAUTION! HARMFUL IF INHALED. CAUSES SKIN AND EYE IRRITATION.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Freezes approx. 0°C (32°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 1.07 at 20°C
<b>Boiling Point (°F)</b>	Decomposes at 100°C (212°F)	<b>Percent Volatile by Volume (%)</b>	95%
<b>Vapor Pressure (mm Hg)</b>	14 (water)	<b>Evaporation Rate (Ether = 1)</b>	Greater than 1.
<b>Vapor Density (Air=1)</b>	2.58 (chlorine)		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Pale yellowish, clear liquid; odor of hypochlorites.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible (NA).	<b>Flammable Limits in Air % by Volume</b>	NA	<b>Lower</b>	<b>Upper</b>
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**Extinguisher Media** Water on fires involving sodium hypochlorite.

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, emits toxic fumes of chlorine. Contact with hydrochloric acid liberates chlorine gas.

D.O.T. **NON-REGULATED.**

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