



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 620  
Effective Date January 28, 1998

## SECTION V HEALTH HAZARD DATA

SS 620

**Threshold Limited Value** Not established. (ACGIH 1993-94). Oral LD50 (Rat) 4340 mg/kg.

**Effects of Overexposure**  
**INHALATION:** Breathing Sodium iodide dust can irritate nose and throat.  
**EYES:** May cause severe irritation. **SKIN:** Causes irritation. **INGESTION:** May Cause stomach irritation and vomiting. 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. If irritation develops or persists, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **INHALATION AS MIST:** Remove to fresh air. If illness or discomfort develops, get medical attention.

## SECTION VI REACTIVITY DATA

|                  |                 |   |                            |  |
|------------------|-----------------|---|----------------------------|--|
| <b>Stability</b> | <b>Unstable</b> |   | <b>Conditions to Avoid</b> | Excessive temperature and heat.<br>Protect from light. |
|                  | <b>Stable</b>   | X |                            |  |

**Incompatibility (Materials to Avoid)** Avoid contact with strong acids and strong oxidants. Metallic salts, chloral hydrate, perchloric acid, bromine trifluoride.

**Hazardous Decomposition Products** When heated it decomposes to release iodine and sodium oxide. In presence of strong acids can liberate hydrogen iodide, in presence of strong oxidants can liberate iodine.

|                                 |                       |                            |                 |
|---------------------------------|-----------------------|----------------------------|-----------------|
| <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** Spills can be flushed away with water, in which sodium iodide is readily soluble.

**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. Solutions resulting from flushing spills or leaks can safely be disposed of through sewage system except where local regulations may prohibit such disposal.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.

|                    |                             |                     |                |            |
|--------------------|-----------------------------|---------------------|----------------|------------|
| <b>Ventilation</b> | <b>Local Exhaust</b>        | <b>Recommended.</b> | <b>Special</b> | <b>No.</b> |
|                    | <b>Mechanical (General)</b> | <b>Recommended.</b> | <b>Other</b>   | <b>No.</b> |

|                          |         |                       |                          |
|--------------------------|---------|-----------------------|--------------------------|
| <b>Protective Gloves</b> | Rubber. | <b>Eye Protection</b> | Chemical safety glasses. |
|--------------------------|---------|-----------------------|--------------------------|

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

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Slightly hygroscopic. Store in a cool, dry place away from oxidizing materials. Protect from light. 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 clothing. Avoid inhalation. 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> 1/28/98 | <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 IODIDE | <br><b>CHEMTREC</b><br><b>800-424-9300</b><br>Day 716-226-6177<br><b>NFPA HAZARD RATING</b><br>LEAST SLIGHT MODERATE HIGH EXTREME<br>0 1 2 3 4<br><b>HMIS *</b><br>0 1 2 3 4 |
| <b>Chemical Synonyms</b> | Ioduril       |  |
| <b>Formula</b>           | Nal           |  |
| <b>Unit Size</b>         | up to 2.5 Kg. |  |
| <b>C.A.S. No.</b>        | 7681-82-5     |  |

## SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s)                | %    | TLV Units         |
|---------------------------------------|------|-------------------|
| Sodium Iodide                         | 100% | None established. |
| <b>WARNING! HARMFUL IF SWALLOWED.</b> |      |                   |

## SECTION III PHYSICAL DATA

|                               |   |  |                    |
|-------------------------------|---|--|--------------------|
| <b>Melting Point (°F)</b>     | 653°C (1207°F)  | <b>Specific Gravity (H<sub>2</sub>O = 1)</b> | 3.667 at 22°C      |
| <b>Boiling Point (°F)</b>     | 1304°C (2379°F)   | <b>Percent Volatile by Volume (%)</b>        | Non-volatile (NA). |
| <b>Vapor Pressure (mm Hg)</b> | 1mm at 767°C  | <b>Evaporation Rate (n-Butyl Acetate =1)</b> | Non-volatile (NA). |
| <b>Vapor Density (Air=1)</b>  | Data not listed.  |  |                    |
| <b>Solubility in Water</b>    | 1 gram dissolves in 0.5 mL. water at 25°C.  |  |                    |
| <b>Appearance &amp; Odor</b>  | White crystals or powder, slowly becomes brown in air due to liberation of iodine; no odor. |  |                    |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

|                                  |                |  |    |              |              |
|----------------------------------|----------------|--|----|--------------|--------------|
| <b>Flash Point (Method Used)</b> | Non-flammable. | <b>Flammable Limits in Air % by Volume</b> | NA | <b>Lower</b> | <b>Upper</b> |
|                                  |                |  |    | -----        | -----        |

**Extinguisher Media** Use any media suitable for extinguishing supporting fire.

## SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Thermal decomposition or burning may produce Hydrogen Iodide gas and/or Iodine gas. Avoid contact with strong acid and strong oxidizing agents.

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

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