



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 680  
Effective Date May 5, 1999

## SECTION V HEALTH HAZARD DATA

SS 680

### Threshold Limited Value

Not established (ACGIH 1992-93).

### Effects of Overexposure

**INHALATION:** Prolonged inhalation of dust may cause respiratory irritation. **EYES:** No specific hazard known. May cause transient irritation. **SKIN:** May cause allergic skin reaction. **INGESTION:** May be harmful if swallowed.

### Emergency and First Aid Procedures

**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. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. 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	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Combustible materials, reducing agents, strong acids.
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Hazardous Decomposition Products	Yields toxic gaseous oxides of nitrogen when involved in fire.
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Hazardous Polymerization	Conditions to Avoid		Not applicable.
	May Occur	Will Not Occur	
		X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Ventilate area. Sweep up and place in a suitable container for proper disposal. Do not allow to remain in contact with combustibles. Flush 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.

Dissolve in water and flush to sewer with large amounts of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. Under dusty conditions, a standard NIOSH/MSHA-approved particulate respirator is desirable.			
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber gloves.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from combustible, organic or other readily oxidizable materials. Immediately remove and dispose of any spilled nitrate. Keep container tightly closed when not in use.
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**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash contaminated clothing promptly.

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

Revision	No. 6	Date	5/5/99	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	SODIUM NITRATE	
Chemical Synonyms	Nitrate of Soda, Chile Saltpeter	
Formula	NaNO <sub>3</sub>	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7631-99-4	

CHEMTREC 800-424-9300 Day 716-226-6177	Health	1
	Fire	0
NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	Reactivity	3
	HMIS *	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Nitrate	100%	None established.

**WARNING! STRONG OXIDIZER! CONTACT WITH OTHER MATERIAL**

**MAY CAUSE FIRE OR EXPLOSION. HARMFUL IF SWALLOWED.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	307°C (584°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.261 at 25°C
Boiling Point (°F)	380°C (716°F) Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Acetate = 1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	73 grams per 100 mL. water at 20°C.		
Appearance & Odor	White crystals, granules, powder, prills; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media	Flood with water.
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### SPECIAL FIREFIGHTING PROCEDURES

Use flooding amounts of water in early stages of fire. When large quantities are involved in fire, nitrate may fuse or melt, in which condition application of water may result in extensive scattering of molten material. Treat as CLASS A fire. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Oxidizing material. If sodium nitrate is in contact with easily oxidizable substances, violent combustion or explosion may result upon ignition from any source. Increases the flammability of any combustible substance.

D.O.T. SODIUM NITRATE, 5.1, UN 1498, PG III

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