



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. SS 480
Effective Date May 3, 1999

SECTION V HEALTH HAZARD DATA

SS 480

Threshold Limited Value

None established (ACGIH 1992-93). Nuisance particulate 5 mg/m³ respirable dust.

Effects of Overexposure

Nuisance dust symptoms; slight skin irritant. Eye contact may cause irritation. Inhalation may cause mucous membranes irritation. Ingestion may cause nausea, vomiting, dizziness, headache. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN:** Wash with mild soap and water. **EYES:** Flush thoroughly with water for 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. **INGESTION:** If conscious, give water to drink, induce vomiting and get medical attention. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature, heat and direct sunlight.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizing agents.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, oxides of sodium.
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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	Sweep up and place in a suitable container for disposal. Wash spill area with soap and 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. Flush to sewer with copious amounts of water or dispose of in an approved incinerator or if uncontaminated, material may be disposed of in a sanitary landfill.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None required in normal laboratory handling. If dusty conditions prevail, use a standard NIOSH/MSHA approved particulate respirator.
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Ventilation	Local Exhaust	Yes, as needed.	Special	No.
	Mechanical (General)	Yes, as needed.	Other	No.

Protective Gloves	If gross contact likely.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	As needed: Apron, smock, goggles, proper gloves, eye wash station, fire extinguisher.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from heat and oxidizing materials. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Remove and wash contaminated clothing.

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

Revision	No. 6	Date	5/3/99	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 CITRATE
Chemical Synonyms	Trisodium Citrate
Formula	Na ₃ C ₆ H ₅ O ₇ •2H ₂ O
Unit Size	up to 2.5 Kg.
C.A.S. No.	6132-04-3

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

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

Health 0
Fire 0
Reactivity 0

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Citrate, Dihydrate	100%	None established.

CAUTION! Nuisance dust.

SECTION III PHYSICAL DATA

Melting Point (°F)	-H ₂ O @ 150°C (302°F)	Specific Gravity (H ₂ O = 1)	1.8
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	None listed.		
Solubility in Water	72% at 25°C		
Appearance & Odor	White, crystalline granular; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Combustible.	Flammable Limits in Air % by Volume	Unknown	Lower	Upper
Extinguisher Media	Water; carbon dioxide (CO ₂); dry chemical (ABC).				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

High concentrations of dust in air may form explosive mixture. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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