



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. CC 337
Effective Date February 8, 1999

SECTION V HEALTH HAZARD DATA

CC 337

Threshold Limited Value

None established by ACGIH 1992-93.

Effects of Overexposure

INHALATION: Nuisance dust symptoms: respiratory irritation. Low risk allergen. **SKIN AND EYES:** May cause eye burns and can cause skin irritation. **INGESTION:** Generally recognized as safe. Long term overexposure may cause damage to tooth enamel.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** Give large amounts of water or milk to drink, call physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Strong oxidizing materials.
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Hazardous Decomposition Products	Thermal decomposition or burning will produce carbon dioxide and probably carbon monoxide.
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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. Flush 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 and flush to sewer with copious amounts of water or dispose of in an approved incinerator.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask.			
Ventilation	Local Exhaust	Yes, if dusty.	Special	No.
	Mechanical (General)	Yes, if dusty.	Other	No.
Protective Gloves	If gross contact - yes.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Safety glasses, lab coat, eye wash station, and ventilation hood.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Wash thoroughly after handling. Store in a cool, dry place away from oxidizing materials. 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. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 6	Date	2/8/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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	CITRIC ACID, ANHYDROUS
Chemical Synonyms	2-Hydroxy-1,2,3-Propane Tricarboxylic Acid
Formula	C ₆ H ₈ O ₇
Unit Size	Up to 2.5 Kg.
C.A.S. No.	77-92-9

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

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

Health	0
Fire	1
Reactivity	0

HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Citric Acid, Anhydrous	100%	None established.
CAUTION! IRRITANT TO EYES, SKIN AND MUCOUS MEMBRANES.		

SECTION III PHYSICAL DATA

Melting Point (°F)	153°C (307°F)	Specific Gravity (H ₂ O = 1)	1.665
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Appreciable.		
Appearance & Odor	White, granular, crystalline powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	N/A	Lower	8.5	Upper	65
Extinguisher Media	Use any media suitable for extinguishing surrounding fire.						

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

* Ignition Temperature "Powder ": 1000°-1020°C (1832°-1868°F)

D.O.T. NON-REGULATED.

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