



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. TT 15
Effective Date May 20, 1999

SECTION V HEALTH HAZARD DATA

TT 15 -TT 20

Threshold Limited Value None established by (ACGIH 1992-93).
TXDS: Ori-rabbit LDLo: 5000 mg/kg.

Effects of Overexposure Tartaric acid is practically non-toxic. Direct contact with powder or solution can cause mild skin or eye irritation. Ingestion has a laxative effect in humans and may cause nausea, vomiting and abdominal cramps. Large intravenous doses have caused kidney damage in rats and rabbits. 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. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give water to drink. Call physician. Never give anything by mouth to an unconscious person. **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) Silver and heat.

Hazardous Decomposition Products Acrid smoke and fumes, carbon dioxide and carbon monoxide.

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 Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Flush spill area with water.

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.

Dispose of in an approved chemical landfill or contract with a licensed waste disposal agency.

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 or respirator.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Lab coat, apron, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool place. 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. Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision No. 5	Date 5/20/99	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	L+TARTARIC ACID	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	1	Reactivity	0
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	1																	
Fire	1																	
Reactivity	0																	
Chemical Synonyms	Threarcic Acid																	
Formula	C ₄ H ₆ O ₆																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	87-69-4																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
L-Tartaric Acid	100%	None established.

CAUTION! COMBUSTIBLE. MILD IRRITANT.

MAY BE HARMFUL IF SWALLOWED OR INHALED.

SECTION III PHYSICAL DATA

Melting Point (°F)	168-170°C (334-338°F)	Specific Gravity (H ₂ O = 1)	1.76 at 20°C
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	5.18		
Solubility in Water	Soluble.		
Appearance & Odor	Colorless or white crystalline powder, granules.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	210°C (410°F) O.C.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media Carbon dioxide (CO₂); dry chemical (ABC); foam.

SPECIAL FIREFIGHTING PROCEDURES

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

Autoignition Temperature: 425°C (797°F)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Violent reaction possible if exposed to silver. Fire hazard: slight when exposed to heat or flame.

D.O.T. NON-REGULATED.

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