



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. TT 284
Effective Date May 24, 1999

SECTION V HEALTH HAZARD DATA

TT 284

Threshold Limited Value

None established (ACGIH 1992-93).

Effects of Overexposure

SKIN: Prolonged contact with skin may cause irritation or allergic reaction.
EYES: May cause irritation. **INHALATION:** May cause irritation of the mucous membranes. **INGESTION:** May cause gastrointestinal irritation.

Emergency and First Aid Procedures

SKIN: Flush thoroughly with water, then 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.
INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
INGESTION: Treat symptomatically and supportively. Get medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature, heat or flame.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizing materials.
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Hazardous Decomposition Products	When decomposed, Hydrogen chloride gas may be produced.
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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	Use proper ventilation. Recover for use if not contaminated. Sweep up and place in a suitable container for proper 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.
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Contract with a licensed waste disposal service.

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

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, 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 area at 15° to 35°C. Wash thoroughly after handling.
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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.
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Avoid prolonged or repeated contact. Use 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. 3	Date 5/24/99	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	TRIS HYDROCHLORIDE	 CHEMTREC 800-424-9300 Day 716-226-6177	Health	2			
Chemical Synonyms	Tris (Hydroxymethyl) Aminomethane Hydrochloride		Fire	0			
Formula	C ₄ H ₁₁ N ₃ •HCl		Reactivity	0			
Unit Size	up to 2.5 Kg.		HMIS *				
C.A.S. No.	1185-53-1	HAZARD RATING	LEAST	SLIGHT	MODERATE	HIGH	EXTREME
		0	1	2	3	4	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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Tris Hydrochloride	99.95%	None established.
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CAUTION! MAY CAUSE IRRITATION TO

SKIN, EYES AND MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	150-152°C (302-305°F)	Specific Gravity (H ₂ O = 1)	Not applicable.
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Complete.		
Appearance & Odor	White crystalline powder; hygroscopic.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

In fire conditions, wear a NIOSH/MSHA-approved self contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of Hydrogen chloride, Chlorine, Ammonia and oxides of Nitrogen. Can react with strong oxidizing materials.

D.O.T. NON-REGULATED.

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