



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. WW 80-2
Effective Date February 2, 1999

SECTION V HEALTH HAZARD DATA

WW 80-2

Threshold Limited Value

Boric acid: orl - wmn LDLo: 200 mg/kg.
orl - inf LDLo: 934 mg/kg.

Effects of Overexposure

EYES: May be irritating on contact. **SKIN:** No absorption through intact skin. Absorption into blood stream through damaged skin may result in erythema, macular rash, CNS effects after 24 hours. **INGESTION:** Large doses (>15 grams as Boric acid) may cause erythema, macular rash, diarrhea, nausea, dizziness and CNS effects after 36-72 hours.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation persists, get medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person. **INHALATION AS MIST:** 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	Stable	Conditions to Avoid
		X	Excessive temperature. Will dehydrate at 100°C to 150°C.

Incompatibility (Materials to Avoid)	None known.
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Hazardous Decomposition Products	When heated to decomposition, emits toxic fumes of oxide of nitrogen, carbon dioxide and/or carbon monoxide.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container for disposal. Wash spill area with soap and water. For small spills flush down sewer with large quantities of 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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Dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None required in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA approved respirator.
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Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	None needed.	Other	No.

Protective Gloves	Rubber if skin contact is anticipated.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, smock, eye wash station, proper gloves.
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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.
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Avoid contact with eyes.
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	2/2/99	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-BORATE-EDTA BUFFER
Chemical Synonyms	Tromethamine-Borate-EDTA-Buffer
Formula	Mixture
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture.

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

HEALTH 2
FIRE 0
REACTIVITY 0
HMIS *

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

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Tromethamine: (CAS No. 77-86-1)	10.8% (w/v)	None established.
Boric Acid: (CAS No. 10043-35-3)	5.5% (w/v)	None established.
EDTA (Ethylenediamine tetraacetic acid disodium): (CAS No. 6381-92-6)	0.74% (w/v)	None established.
Water: (CAS No. 7732-18-5)	Approx. 83%	None established.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes @ approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	83%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	< 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, water white liquid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	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

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, emits toxic fumes of oxides of nitrogen (NO_x), carbon dioxide and/or carbon monoxide.

D.O.T.	NON-REGULATED.
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20