



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. SS 320
Effective Date April 29, 1999

SECTION V HEALTH HAZARD DATA

SS 320

Threshold Limited Value

TLV-TWA 5 mg/m³ (ACGIH 1992-93).

Effects of Overexposure

TARGET ORGANS AFFECTED: Central nervous system, kidneys, liver.
EYES: May cause irritation, redness, pain. **SKIN:** May cause irritation.
INGESTION: May be harmful if swallowed. May cause gastrointestinal irritation, kidney injury, central nervous system depression or circulatory failure. **INHALATION:** May cause respiratory tract irritation, coughing, nausea, vomiting.

Emergency and First Aid Procedures

EYES: Flush with water for 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water or milk to drink. Call physician at once. Never give anything by mouth to an unconscious person.
INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Elemental Zirconium, strong acids and oxidizing agents.
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Hazardous Decomposition Products	Boron oxide and sodium oxide.
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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	Sweep up and place in a suitable container. Dissolve in water and flush to sewer with copious amounts 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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Dissolve in water and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be required in normal laboratory use. If dusty conditions prevail, use a NIOSH/MSHA-approved respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	None needed unless skin is abraded.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Smock, apron, goggles, eye wash station, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Wash thoroughly after handling. WARNING! This product contains trace amounts of arsenic, a chemical known to cause cancer.
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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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Gloves are usually not necessary unless open skin is present.
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	4/29/99	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 BORATE, DECAHYDRATE
Chemical Synonyms	Sodium Tetraborate; Borax
Formula	Na ₂ B ₄ O ₇ •10H ₂ O
Unit Size	up to 2.5 Kg.
C.A.S. No.	1303-96-4

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

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

HMIS *
Health 1
Fire 0
Reactivity 0

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Borate, Decahydrate	100%	See Section V.
CAUTION! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	62°C (143°F)	Specific Gravity (H ₂ O = 1)	1.73
Boiling Point (°F)	Not determined.	Percent Volatile by Volume (%)	Not determined.
Vapor Pressure (mm Hg)	Not determined.	Evaporation Rate (≈1)	Not determined.
Vapor Density (Air=1)	Not determined.		
Solubility in Water	5.81% @ 20°C, 65.63% @ 100°C.		
Appearance & Odor	White crystalline or powder; no odor. Efflorescent in warm, dry air.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible (NA).	Flammable Limits in Air % by Volume	NA	Lower	-----	Upper	-----
Extinguisher Media	None required. Product inherent fire retardant.						

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus. No special firefighting procedures required.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products. Product is an inherent fire retardant. No unusual fire and explosion hazard.

D.O.T. NON-REGULATED.

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