



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. BB 245
Effective Date January 30, 1999

SECTION V HEALTH HAZARD DATA

BB 245

Threshold Limited Value TWA: 100 ppm ; 303 mg/m³ (ACGIH 1992-93). Toxicity data: Oral LD50 (rat) 2.2 g/kg. ; inhalation (rat) 16,000 ppm/4 hr. (5/6 died).

Effects of Overexposure Liquid is irritating to the skin and eyes. Vapor may cause irritation of eyes, nose and throat. High vapor concentrations of prolonged breathing of vapors may cause headache, dizziness, nausea, incoordination and drowsiness. If swallowed may result in CNS depression.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **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, sparks and flame.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizing agents.

Hazardous Decomposition Products Thermal decomposition or burning may produce carbon dioxide and/or carbon monoxide and smoke.

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 Eliminate all sources of ignition. Evacuate spill area. Absorb on sand, earth, clay, or vermiculite. Carefully sweep up and remove. 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 incinerator or contract a licensed chemical waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Use an approved all purpose organic vapor canister mask for emergency clean up of spills. Work in a ventilation hood.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment Goggles, smock, apron, proper gloves, ventilation hood, and fire extinguisher.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Keep away from heat, sparks, flame. Keep in a tightly closed container. 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 eyes, skin and clothing. Avoid breathing vapor. 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. 6	Date 1/30/99	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	SEC-BUTYL ALCOHOL	 <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>3</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	3	Reactivity	1
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	1																	
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Chemical Synonyms	2-Butanol																	
Formula	CH ₃ CHOHCH ₂ CH ₃																	
Unit Size	up to 20 Lt.																	
C.A.S. No.	78-92-2																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
sec-Butyl Alcohol	100%	See Section V.

WARNING! FLAMMABLE! HARMFUL IF INHALED OR SWALLOWED.

CAUSES IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	-114°C (-174°F)	Specific Gravity (H₂O = 1)	0.811 at 20°/4°C
Boiling Point (°F)	97°-99°C (208°-214°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	11.4 at 68°F	Evaporation Rate (n-Butyl Acetate = 1)	0.81
Vapor Density (Air=1)	2.6		
Solubility in Water	Appreciable.		
Appearance & Odor	Clear, colorless, mobile liquid; sharp odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	72°F (22°C) TCC	Flammable Limits in Air % by Volume @ 100°C	Lower: 1.7	Upper: 9.8
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Extinguisher Media Dry chemical (ABC); carbon dioxide (CO₂); water fog; "alcohol" foam.

SPECIAL FIREFIGHTING PROCEDURES Do not use a solid stream of water since the stream will scatter and spread the fire. Use water spray to cool containers exposed to fire. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

Ignition temperature 761°F (405°C).

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 129)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Treat as a flammable liquid. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. BUTANOLS, 3, UN 1120, PG III

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