



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. BB 158
Effective Date January 28, 1999

SECTION V HEALTH HAZARD DATA

BB 158

Threshold Limited Value Ketone: TWA: 750 ppm. Formalin: PEL: 0.75 ppm. Methanol: TWA: 200 ppm, 262 mg/m³. Glutaraldehyde: TWA: C 0.2 ppm, C 0.82 mg/m³.

Effects of Overexposure **Borealene is a fixative, avoid all skin/eye contact!**
INGESTION: Toxic! May cause irritation and numbing of mucosa. **EYES:** Direct contact may cause irritation. **INHALATION:** May produce short-term upper respiratory system irritation. **SKIN:** May cause tanning and irritation, defatting of skin, dermatitis.

Emergency and First Aid Procedures **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If conscious, give one or two glasses of water, INDUCE VOMITING-having victim lean forward to reduce risk of aspiration. Call physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. If irritation develops or persists, get medical attention.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid) Avoid strong oxidizing agents such as nitrates, perchlorates or concentrated sulfuric, nitric or acetic acids. May be reactive with potassium butoxide. AVOID ANY CONTACT WITH HYDROCHLORIC ACID. Resultant product may contain BIS-chloromethyl ether, an OSHA-regulated carcinogen.

Hazardous Decomposition Products Formaldehyde gas, carbon monoxide and carbon dioxide.

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 Absorb with an inert dry material, sweep up and place in a suitable container for proper disposal.

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 equipped with an afterburner and scrubber or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Local exhaust ventilation required. Use a NIOSH/MSHA-approved respirator. Do not use in confined areas.

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

Protective Gloves	Recommended.	Eye Protection	Splash proof goggles
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Other Protective Equipment Safety glasses, lab coat, vented hood, rubber gloves, sleeve protectors and eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from heat and oxidizing agents. 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 and eyes. Do not ingest.
Avoid breathing vapors. 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. 2	Date 1/28/99	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	BOREALENE CONCENTRATE I	 <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>3</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	3	Fire	3	Reactivity	1
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	3																	
Fire	3																	
Reactivity	1																	
Chemical Synonyms	Formula I Fixative																	
Formula	Mixture																	
Unit Size	up to 1 gal.																	
C.A.S. No.	Mixture																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ketone: (Proprietary)	74.77%	See Section V.
Formalin: (CAS No. 50-00-0)	16.36%	See Section V.
Methanol: (CAS No. 67-56-1)	4.67%	See Section V.
Glutaraldehyde: (CAS No. 111-30-8)	2.23%	See Section V.
Other	1.97%	

DANGER! EXTREMELY FLAMMABLE.
Harmful if swallowed, inhaled or absorbed through skin.

SECTION III PHYSICAL DATA

Melting Point (°F)	N/A	Specific Gravity (H₂O = 1)	0.7
Boiling Point (°F)	56°C (132.8°F)	Percent Volatile by Weight (%)	71.4
Vapor Pressure (mm Hg)	181.7 @ 20°C (68°F)	Evaporation Rate (n-Butyl acetate =1)	>7.0
Vapor Density (Air=1)	N/A		
Solubility in Water	Complete.		
Appearance & Odor	Yellow mobile fluid; pungent irritating odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	-17°C (1.4°F)	Flammable Limits in Air % by Volume	Lower	Upper
			2.15% (Ketone)	13% (Ketone)

Extinguisher Media Use any media suitable for surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire may release formaldehyde, methyl alcohol and ketone vapors. Auto-ignition temperature: 500°C (932°F).

(1996 EMERGENCY RESPONSE GUIDE BOOK DOT P 5800.7, GUIDE PAGE NO. 128)

D.O.T. Flammable liquid, n.o.s., (Acetone, Formaldehyde, Methanol), 3, UN 1993, PG II.

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