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MSDS No. BB 159  
Effective Date January 28, 1999

## BB159

Formalin: PEL: 0.75 ppm, CEIL: 0.3 ppm, A2; CEIL: 0.37 mg/m<sup>3</sup>, A2. Ketone (ACGIH 1992-93): TWA: 750 ppm, 1780 mg/m<sup>3</sup> STEL: 1000 ppm, 2380 mg/m<sup>3</sup>. Propylene Glycol: TWA: 200 ppm. Methanol: TWA: 200 ppm, 262 mg/m<sup>3</sup>.

**This product is a fixative, avoid all skin/eye contact!**  
**INGESTION:** Toxic! May cause irritation and numbing of mucosa.  
**EYES:** May cause irritation. **INHALATION:** May produce short-term upper respiratory system irritation and possible allergic reaction. **SKIN:** May cause tanning, defatting, allergic reaction and irritation.

**INHALATION:** Remove to fresh air. Contact physician if symptoms persist.  
**INGESTION:** If conscious, give large amounts of milk or 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:** Wash affected area with lukewarm water for 20 minutes. If irritation occurs, get medical attention.

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature, heat, spark or flame.
	<b>Stable</b>	X		

Avoid strong oxidizing agents such as nitrates, perchlorates or concentrated sulfuric, nitric or acetic acids. May be reactive with potassium t-butoxide. AVOID ANY CONTACT WITH HYDROCHLORIC ACID.

Formaldehyde gas, carbon monoxide and carbon dioxide.

Conditions to Avoid
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	Not applicable.
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<b>Steps to be taken in case material is released or spilled</b>	Eliminate all sources of ignition. Ventilate area. Absorb spill with an inert dry material, sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.
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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.

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

Rubber.	<b>Eye Protection</b>	Splash proof goggles
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Lab coat, apron, ventilation hood, rubber gloves, and eye wash station.

<p><b>Precautions to be Taken in Handling &amp; Storing</b></p> <p>Keep container tightly closed when not in use.</p>	<p>Store in a cool, dry place away from heat and oxidizing materials. Do not allow hydrochloric acid to come in contact with this product. Wash hands thoroughly after handling.</p>
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Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin and eyes.  
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 II	<div><div><div>3</div><div>3</div><div>1</div><div>3</div></div><div>CHEMTREC 800-424-9300 Day 716-226-6177</div><div>NFPA HAZARD RATING</div><div>LEAST    SLIGHT    MODERATE    HIGH    EXTREME</div><div>0           1           2           3           4</div></div>
Chemical Synonyms	Formula II Fixative	
Formula	Mixture	
Unit Size	up to 1 gal.	
C.A.S. No.	Mixture	

Health	3
Fire	3
Reactivity	1

HMIS\*

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Formalin: (CAS No. 50-00-0)	36.5%	See Section V.
Ketone: (Proprietary)	35.4%	See Section V.
Propylene Glycol: (CAS No. 57-55-6)	23.9%	See Section V.
Methanol: (CAS No. 67-56-1)	2.2%	
Other	2.0%	

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

### SECTION III PHYSICAL DATA

Melting Point (°F)	N/A	Specific Gravity (H <sub>2</sub> O = 1)	<1.0
Boiling Point (°F)	Unknown.	Percent Volatile by Weight (%)	70%
Vapor Pressure (mm Hg)	>1.0	Evaporation Rate ( n-Butyl acetate =1)	Unknown
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)	Unknown.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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.
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20