



# MATERIAL SAFETY DATA SHEET

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MSDS No. BB 154  
Effective Date January 27, 1999

## SECTION V HEALTH HAZARD DATA

BB 154

### Threshold Limited Value

None established for this solution by ACGIH 1992-93.

### Effects of Overexposure

May be harmful by inhalation, ingestion, or skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

### Emergency and First Aid Procedures

**SKIN:** Flush thoroughly 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 immediate medical attention.  
**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:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Strong oxidizers.
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Hazardous Decomposition Products	Combustion will produce carbon dioxide and probably carbon monoxide.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover for use if not contaminated. 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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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 should be needed in normal laboratory handling at room temperature. If necessary work in a ventilation hood or wear a NIOSH/MSHA-approved respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, smock, apron, proper gloves, ventilation hood, eye wash station, fire extinguisher.
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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.
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 skin and 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	1/27/99	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	BORAX CARMINE, SOLUTION
Chemical Synonyms	Borax Carmine Biological Stain
Formula	Mixture.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture. See Section II.

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

Health	1
Fire	2
Reactivity	0

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS \*

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ethyl Alcohol, 95% Denatured: (CAS No. 64-17-5)	35%	TWA: 1000 ppm
Carmine, Biological Stain: (CAS No. 1390-65-4)	0.5%	None established.
Borax, (Sodium Tetraborate Decahydrate): (CAS No. 1303-96-4)	0.5%	5 mg/m3 (air).
Water: (CAS No. 7732-18-5)	64%	None established.

**WARNING! FLAMMABLE! CAUSES IRRITATION.**

**HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	Not listed.	Specific Gravity (H <sub>2</sub> O = 1)	0.9414 @ 25°C
Boiling Point (°F)	Approx. 78°C (173°F)	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	40 mm @ 19°C (Ethyl Alc.)	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	1.6 (Ethyl Alc.)		
Solubility in Water	Soluble.		
Appearance & Odor	Red liquid; mild sweet odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	27.7°C (82°F) TCC	Flammable Limits in Air % by Volume (Alcohol)	Lower: 3.3 Upper: 19
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Extinguisher Media	Carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC); water spray or fog.
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### SPECIAL FIREFIGHTING PROCEDURES

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

Ignition temperature 685°F (363°C).

(1993 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE NO. 26)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume; can react vigorously with oxidizing materials.

D.O.T. Denatured alcohol, (Solution), 3, NA 1987, PG III

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