



MATERIAL SAFETY DATA SHEET

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MSDS No. BB 154
Effective Date January 27, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	BORAX CARMINE, SOLUTION	 CHEMTREC 800-424-9300 Day 716-226-6177	Health	1
Chemical Synonyms	Borax Carmine Biological Stain		Fire	2
Formula	Mixture.		Reactivity	0
Unit Size	up to 4 Lt.		NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	
C.A.S. No.	Mixture. See Section II.	HMIS * 0 1 2 3 4		

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/m ³ (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 ₂ 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 ₂); 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

SECTION V HEALTH HAZARD DATA

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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.
	Stable	X		Excessive temperature and heat.

Incompatibility (Materials to Avoid) Strong oxidizers.

Hazardous Decomposition Products Combustion will produce carbon dioxide and probably carbon monoxide.

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.

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 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.

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

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, smock, apron, proper gloves, ventilation hood, eye wash station, fire extinguisher.

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.

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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