

Cab. 11

MATERIAL SAFETY DATA SHEET

C
CAROLINA BIOLOGICAL

Revised: 09/05/00
Replaces: None
Printed: 26/02/02

1. PRODUCT DESCRIPTION

Product Name: Carmine, Alcoholic, Mayer
Product Code(s): 85-3041, 85-3043
Size: 25mL, 120mL
Chemical Name: Does not apply
CAS Number: Mixture-See section 2
Formula: See section 2
Synonyms: None known
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Hexane (Denaturant) (CAS# 110-54-3) 2%
Ethyl alcohol (CAS# 64-17-5) 65%
Methyl isobutyl ketone (Denaturant) (CAS# 108-10-1) 3%
Sodium borate (CAS# 1303-96-4) 1-2%
Carmine (CAS# 1390-65-4) 1-2%

TLV and PEL units:

Ethyl alcohol: ACGIH-TLV 1000ppm(TWA); OSHA-PEL 1000ppm(TWA)
Methyl isobutyl ketone: ACGIH-TLV 50ppm(TWA), STEL 75ppm; OSHA-PEL 50ppm(TWA), STEL 75ppm
Hexane: ACGIH-TLV 50ppm(TWA); OSHA-PEL 50ppm(TWA)
Sodium borate: ACGIH-TLV 1mg/m3(TWA)
Carmine: None established.

3. HAZARD IDENTIFICATION

Emergency Overview: Concentrations below 1000ppm usually produce no signs of intoxication. Exposure to concentrations over 1000ppm may cause headache, irritation of the eyes, nose, and throat, and, if continued for an hour, drowsiness and lassitude, loss of appetite and inability to concentrate.
DO

NOT TAKE INTERNALLY!

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water.

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Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used):(cc)55.6F-Ethyl alcohol

NFPA Rating: Health:0
Fire:3
Reactivity:0

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume:Ethyl alcohol: LEL 3.3%, UEL 19%

Autoignition Temperature:Ethyl alcohol - 793F

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Extremely flammable. Vapors are heavier

than air and can travel distances to ignition source and flash back.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition.

Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: This material should be kept

in an area suitable for the storage of flammable liquids. Bond and ground

containers when transferring liquid. Wash thoroughly after handling.

Other Precautions: Keep oxidizing materials and strong acids away. Wear splash-proof chemical safety goggles and rubber gloves at all times during

cleanup process. Do not take internally.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves:

Butyl, PVC, Rubber or equivalent

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

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Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: n/a
Melting Point: No information available
Boiling Point: No information available
Vapor Pressure: No information available
Vapor Density(Air=1): No information available
Specific Gravity(H2O=1): Less than 1
Percent Volatile by Volume: 97%
Evaporation Rate(H2O=1): Greater than 1
Solubility in Water: 100%
Appearance and Odor: Pale, red liquid, fruity odor.

10. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Heat, sparks, open flame
Incompatibility(Materials to Avoid): Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated. Data is listed for individual components.
Effects of Overexposure:
 Acute: See section 3
 Chronic:
Ethyl alcohol: Mutation data cited. Reproductive effects data cited. Tumorigenic data cited. Not listed as causing cancer by IARC, NTP, or OSHA.
Methyl isobutyl ketone: No chronic effects data found. Not listed as causing cancer by IARC, NTP, or OSHA.
Hexane: Mutation data cited. Reproductive effects data cited. Not listed as causing cancer by IARC, NTP, or OSHA.
Sodium borate: Reproductive effects data cited. Not listed as causing cancer by IARC, NTP, or OSHA.
Carmine: No chronic effects data found. Not listed as causing cancer of the skin, eyes, throat, liver.
Conditions Aggravated by Overexposure: Pre-existing conditions of the skin, eyes, throat, liver.
Target Organs: Skin, eyes, nose, throat

12. ECOLOGICAL DATA

EPA Waste Numbers: Methyl isobutyl ketone - U161

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13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Description: Flammable liquid, n.o.s. (ethanol, methyl isobutyl ketone, hexane)

3, UN1993, II

25 mL bottle is a small quantity exception.

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec.
		Name List	Chemical Category		
261.33					

Ethyl alcohol	No	No	No	No	No
Methyl isobutyl ketone	No	Yes	No	5000	Yes
Hexane	No	No	No	No	No
Sodium borate	No	No	No	No	No
Carmine	No	No	No	No	No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Services Abstract Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

IARC.....International Agency of Research on Cancer

N/A.....Not Available

NTP.....National Toxicology Program

OSHA.....Occupational Safety and Health Administration

PEL.....Permissible Exposure Limit

ppm.....parts per million

RCRA.....Resource Conservation and Recovery Act

SARA.....Superfund Amendments and Reauthorization Act

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TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act