

MATERIAL SAFETY DATA SHEET

ACETO-CARMINE
CAROLINA BIOLOGICAL

Revised: 07/19/07
Replaces: 07/10/07
Printed: 11/27/07

1. PRODUCT DESCRIPTION

Product Name: Aceto-Carmine
Product Code(s): 84-1421, 84-1423, 84-1425, 74-6530, 74-6535, 89-2281, 89-2285
Size: 25ml, 120ml, 500ml
Chemical Name: Does not apply, product is a mixture.
CAS Number: See individual elements below.
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

Principal Hazardous Components: Acetic Acid (CAS#64-19-7) 45%
Carmine (CAS#1390-65-4) 0.75%
TLV and PEL units: Acetic Acid
ACGIH-TLV 10ppm(TWA); 15ppm(STEL)
OSHA-PEL 10ppm(TWA); 25mg/m³(TWA)

3. HAZARD IDENTIFICATION

Emergency Overview: Do not ingest. Avoid contact with skin and eyes.
Potential Health Effects:
Eyes: May cause irritation and damage to the cornea and conjunctiva.
Skin: May cause irritation, pain, blisters, discoloration.
Ingestion: May cause gastrointestinal discomfort, burns, swelling of throat, damage to esophagus and stomach.
Inhalation: May cause irritation to respiratory tract; concentrated vapors can cause serious damage and breathing difficulty.

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.
Ingestion - Do not induce vomiting. If swallowed, if conscious, give plenty of water immediately and get medical attention at once. 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 and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): For acetic acid: 104°F cc
NFPA Rating: Health: 3
Fire: 2
Reactivity: 0

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: No data available

Autoignition Temperature: No data available

MATERIAL SAFETY DATA SHEET

ACETO-CARMINE
CAROLINA BIOLOGICAL

Revised: 07/19/07
Replaces: 07/10/07
Printed: 11/27/07

Special Firefighting Procedures:

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

Unusual Fire and Explosion Hazards: No data available

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: Keep container closed and stored in a cool place away from any ignition source.

Other Precautions: Avoid contact with skin or eyes.

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: Preferred

Mechanical(General): Acceptable

Special: No

Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

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

Other Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: No information available

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): No information available

Percent Volatile by Volume: No information available

Evaporation Rate(H2O=1): No information available

Solubility in Water: 100%

Appearance and Odor: Dark red liquid with a pungent odor

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Heat or open flame

Incompatibility(Materials to Avoid): Oxidizers, alkalis, mineral acids

Hazardous Decomposition Products: No information available

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Acetic Acid: orl-ratLD50: 3,310mg/kg

ihl-musLC50: 5,620 ppm/1H

skin rabbit LD50: 1,060 mg/kg

MATERIAL SAFETY DATA SHEET

ACETO-CARMINE
CAROLINA BIOLOGICAL

Revised: 07/19/07
Replaces: 07/10/07
Printed: 11/27/07

Carmine: No toxicity data found
Effects of Overexposure:
Acute: See section 3
Chronic: Acetic Acid: Mutation and reproductive data cited.
Not listed as causing cancer by IARC, NTP, or OSHA. Carmine: No chronic effects data cited. Not listed as causing cancer by IARC, NTP, or OSHA.
Conditions Aggravated by Overexposure: Respiratory Problems
Target Organs: Eyes, skin
Primary Route(s) of Entry: Inhalation, ingestion, or skin contact.

12. ECOLOGICAL DATA

EPA Waste Numbers: Acetic Acid D002

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

Shipping Name: Acetic Acid Solution, 8, UN2790, III
Small quantity exception for 25 mL bottle

15. REGULATORY INFORMATION

EPA TSCA Status: The ingredients of this product are on the TSCA Inventory.

Hazard Category for SARA Section 311/312 Reporting: Acute
SARA EHS Section 302 TPQ(lbs.) No

SARA Section 313 Chemicals

Name List:	Chemical Category:
No	No

CERCLA Section 103	RQ(lbs.):
Acetic Acid	5,000

RCRA	Section 261.33:
Acetic Acid	Yes

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 Abstracts Service Number
CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot

MATERIAL SAFETY DATA SHEET

ACETO-CARMINE
CAROLINA BIOLOGICAL

Revised: 07/19/07
Replaces: 07/10/07
Printed: 11/27/07

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