

MATERIAL SAFETY DATA SHEET

ACETO-CARMINE
CAROLINA BIOLOGICAL

Revised: 10/13/09
Replaces: 07/19/07
Printed: 03/06/10

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 dsiscomfort, burns, swelling of
throat, damage to exophagus 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 at once.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove
contaminated clothing. Launder contaminated clothing before reuse. Get
medical attention at once.
Ingestion - Do not induce vomiting. If swallowed, if conscious, give
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 at once.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): For acetic acid: 40 °C cc
NFPA Rating: Health: 3
Fire: 2
Reactivity: 0

Extinguisher Media:
Use dry chemical, CO2 or appropriate foam.

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Flammable Limits in Air % by Volume: No data available
Autoignition Temperature: No data available
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 apron, 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

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Toxicity Data: Acetic Acid: orl-ratLD50: 3310mg/kg
ihl-musLC50: 5620 ppm/1H
skin rabbitLD50: 1060 uL/kg
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

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name	Chemical List Category		
Acetic Acid	No	No	No	5000	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 Abstracts Service Number

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

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DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
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