

MATERIAL SAFETY DATA SHEET

FORMALIN ODOR SUPPRESSANT
CAROLINA BIOLOGICAL

Revised: 09/12/07
Replaces: 07/10/07
Printed: 05/20/08

1. PRODUCT DESCRIPTION

Product Name: Formalin Odor Suppressant
Product Code(s): 86-3693, 86-3695
Size: 120 mL, 500 mL
Chemical Name: Does not apply-product is a mixture
CAS Number: None assigned to this product
Formula: The formula of this material is a trade secret of the
Crompton & Knowles Corporation, 17-01 Nevins Road
Fairlawn, NJ 07410
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: Tween 20 (CAS#9005-64-5)
Ethyl acetate (CAS#141-78-6)
Cedarwood oil (CAS#8000-27-9)
TLV and PEL units: Ethyl Acetate: ACGIH-TLV 400ppm (TWA)
OSHA-PEL 400ppm (TWA)

3. HAZARD IDENTIFICATION

Emergency Overview: Swallowing or ingesting may cause serious harm. Do not ingest.
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. 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 and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): 78F
NFPA Rating: Health: 2
Fire: 3
Reactivity: 0

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: No information available
Autoignition Temperature: No information available

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Special Firefighting Procedures:

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

Unusual Fire and Explosion Hazards: None known

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: Store tightly closed in a cool, dry area suitable for the storage of flammable liquids.

Other Precautions: None known

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

None needed under normal conditions of use with adequate ventilation.

NIOSH approved equipment should be worn if PELs are exceeded.

Ventilation:

Local Exhaust: Yes
Mechanical(General): Yes
Special: Not required
Other: No

Protective Gloves:

Butyl 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): Greater than 1

Specific Gravity(H₂O=1): 1.08

Percent Volatile by Volume: No information available

Evaporation Rate(H₂O=1): No information available

Solubility in Water: Insoluble

Appearance and Odor: Viscous brown liquid with sweet odor.

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Excessive heat, 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 given is based on properties of individual components.

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Tween 20: ipr-rat LD50: 3,850 mg/kg; ipr-rat LDlo: 3,000 mg.kg
Ethyl acetate: oral-rat LD50: 5,620 mg/kg; ihl-rat LC50: 1,600 ppm/8H
Cedarwood oil: No toxicity data found.

Effects of Overexposure:

Acute: See section 3

Chronic:

Tween 20: Reproductive data cited. Not listed as causing cancer by IARC, NTP, or OSHA.

Ethyl acetate: Mutation data cited. Not listed as causing cancer by IARC, NTP or OSHA.

Cedarwood oil: No chronic effects data found. Not listed as causing cancer by IARC, NTP, or OSHA.

Conditions Aggravated by Overexposure: None known

Target Organs: Skin

12. ECOLOGICAL DATA

EPA Waste Numbers: Ethyl Acetate U112

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.(ethyl acetate), 3, UN1993, III

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. 261.33
		Name List	Chemical Category		
Tween 20	No	No	No	No	No
Ethyl acetate	No	No	No	5000	Yes
Cedarwood oil	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

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

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

mppcf.....million particles per cubic foot

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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