

MATERIAL SAFETY DATA SHEET

FLYNAP
CAROLINA BIOLOGICAL

Revised: 07/25/07
Replaces: 07/10/07
Printed: 11/27/07

1. PRODUCT DESCRIPTION

Product Name: FlyNap
Product Code(s): 17-3010, 17-3015, 17-3025, 17-3048, 17-3050, 17-3052,
17-3060, 74-6530, 17-1950, 17-1951, 17-1958, 17-1959,
17-1960, 17-1964, 17-1966, 17-1984, 17-1987, 17-1990,
17-1993
Size: 10 mL, 100 mL
Chemical Name: Product is a mixture
CAS Number: 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

Principal Hazardous Components: Triethylamine (CAS# 121-44-8) 50%;
Ethanol(CAS# 64-17-5) 25%; Fragrance (neutralizer) 25%
TLV and PEL units:
Triethylamine: ACGIH-TLV 1 ppm (TWA) skin, 3 ppm (STEL) skin;
OSHA-PEL 25 ppm (TWA).
Ethanol: ACGIH-TLV 1000ppm (TWA); OSHA-PEL 1000ppm (TWA).

3. HAZARD IDENTIFICATION

Triethylamine is a severe irritant to eyes and mucous membranes.
Prolonged exposure to triethylamine may cause damage to heart, liver
and/or kidneys.

Emergency Overview:

Potential Health Effects:

Eyes: Corrosive. Liquid contact with eyes may cause extreme irritation
and corneal damage. Vapors may cause irritation.

Skin: Corrosive. May cause irritation including redness, pain, and
skin burns. Triethylamine is absorbed through the skin.

Ingestion: Corrosive. May cause gastrointestinal discomfort.
Triethylamine may cause burns to the mouth, throat and stomach.
Aspiration into lungs may cause lung damage.

Inhalation: Corrosive. May cause irritation to the 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.

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

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Flash Point(Method Used): -9°C (closed cup) for triethylamine
13°C (closed cup) for ethanol

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

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume:

Triethylamine: LEL 1.2, UEL 8.0

Ethanol: LEL 3.3 (@60°C), UEL 19.0 (@60°C)

Autoignition Temperature: No information available

Special Firefighting Procedures:

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

Unusual Fire and Explosion Hazards: Triethylamine vapors are heavier than air and may travel along the ground to a distant source of ignition 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: Store tightly closed in a cool, dry, well ventilated area suitable for the storage of flammable liquids.

Other Precautions: Keep all oxidizing materials and acids away.

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:

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: N/A; material is a mixture.

Melting Point: Triethylamine: -115°C; Ethanol: -114.5°C

Boiling Point: Triethylamine: 89.3°C; Ethanol: 78°C

Vapor Pressure: Triethylamine: 54mmHg@20°C; Ethanol: 59.3mmHg@25°C

Vapor Density(Air=1): 3.5 for triethylamine; 1.59 for ethanol

Specific Gravity(H2O=1): .73 for triethylamine; .789 for ethanol

Percent Volatile by Volume: 100%

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Ethanol	No	No	No	No	No
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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

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