

## **MATERIAL SAFETY DATA SHEET**

FLYNAP  
CAROLINA BIOLOGICAL

Revised: 05/15/08  
Replaces: 04/10/08  
Printed: 05/20/08

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### **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 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**

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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 apron, 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%



