#### **Material Safety Data Sheet**



# **Barfoed Reagent**

**Revised:** 11/18/2011 **Replaces:** 11/17/2011 **Printed:** 08/10/2012

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



### **Section 1 - Product Description**

**Product Name:** Barfoed Reagent **Product Code(s):** 84-6623

Size: Various

**Chemical Name:** N/A; product is a mixture. **CAS Number:** N/A; product is a mixture.

**Formula:** See Section 3 **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 800-424-9300 (Transportation Spill Response 24

hours)

#### **Section 2 - Hazard Identification**

**Emergency Overview:** {{02SIG\_WD}}

Potential Health Effects: Eyes: May cause irritation.

Eyes: May cause irritation. Skin: May cause irritation to skin.

**Ingestion:** May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

# **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Acetic Acid, Glacial (CAS# 64-19-7) 1%; Cupric Acetate (CAS# 142-71-2) 6.65%

TLV units: ACGIH-TLV (Acetic Acid) 10 ppm (TWA); 15 ppm (STEL)

ACGIH-TLV (Cupric Acetate) 0.05 mg(Cu)/m3 (TWA) **PEL units:** OSHA-PEL (Acetic Acid) 10 ppm (TWA) OSHA-PEL (Cupric Acetate) 0.1 mg(Cu)/m3 (TWA)

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

**Ingestion** - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

NFPA Rating: Health: 1 Fire: 0 Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

#### **Section 6 - Spill or Leak Procedures**

**Steps to Take 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.

#### **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: Toxic by inhalation and if swallowed.

Avoid contact with skin and eyes.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. 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:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight:N/AMelting Point:N/ABoiling Point:Approximately 100 °CVapor Pressure:N/AVapor Density(Air=1):N/ASpecific Gravity (H2O=1):<1</td>Percent Volatile by Volume:94%Evaporation Rate (BuAc=1):1

**Solubility in Water:** Soluble **Appearance and Odor:** Light blue liquid with vinegar odor.

# **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Water-reactive Material,

Hazardous Decomposition Products: Metal Fumes,

Hazardous Polymerization: Will not occur

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## **Section 11 - Toxicity Data**

Toxicity Data: (Acetic Acid) orl-rat LD50 3310 mg/kg

(Acetic Acid) ihl-mus LC50 5620 ppm/1H (Cupric Acetate) orl-rat LD50 501 mg/kg

**Effects of Overexposure: Acute:** See Section 2

Chronic: Mutation data cited. Reproductive data cited. Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: N/A

**Target Organs:** N/A

Primary Route(s) of Entry: Inhalation.

#### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

#### **Section 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.

# **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

#### **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category: (Acetic Acid) No (Acetic Acid) No

(Cupric Acetate) No (Cupric Acetate) Copper Compounds

CERCLA Section 103 RQ(lb.): (Acetic Acid) 5000

(Cupric Acetate) 100

RCRA Section 261.33: (Acetic Acid) No

(Cupric Acetate) No

#### **Section 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 Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

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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

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