

## Material Safety Data Sheet



# Carnoy Fixative

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**Carolina Biological Supply Company**

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**CAROLINA**

www.carolina.com

### Section 1 - Product Description

**Product Name:** Carnoy Fixative

**Product Code(s):** 17-1122, 17-1123, 17-1130, 17-1131, 17-1132, 17-1142, 17-1148, BM2201, 17-1120, BM2200, C53007

**Size:** 30 mL, 120 mL, 180 mL, 240 mL

**Chemical Name:** N/A

**CAS Number:** N/A

**Formula:** N/A

**Synonyms:** N/A

**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:** May burn eyes

**Potential Health Effects:**

**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) 25%

Ethyl Alcohol (CAS# 64-17-5) 75%

**TLV units:**

Acetic Acid, Glacial - ACGIH-TLV 10 ppm (TWA), STEL 15 ppm

Ethyl Alcohol - ACGIH-TLV 1000 ppm (TWA)

**PEL units:**

Acetic Acid, Glacial - OSHA-PEL: 10 ppm (TWA)

Ethyl Alcohol - OSHA-PEL: 1000 ppm (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, take off immediately all contaminated clothing, and wash immediately with plenty of water.

**Ingestion** - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

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

## Section 5 - Firefighting Procedures

**Flash Point (Method Used):** 12 °C

**NFPA Rating:**

**Health:** 2

**Fire:** 3

**Reactivity:** 0

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

**Flammable Limits in Air % by Volume:** 3.3% 19%

**Autoignition Temperature:** 423 °C

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

**Unusual Fire and Explosion Hazards:** Vapours may travel back to ignition source. Closed Containers exposed to heat may explode.

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:** Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution. 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:** Preferred

**Mechanical(General):** Acceptable

**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/A

**Boiling Point:** N/A

**Vapor Density(Air=1):** Greater than 1

**Percent Volatile by Volume:** 100%

**Solubility in Water:** Soluble

**Melting Point:** N/A

**Vapor Pressure:** N/A

**Specific Gravity (H2O=1):** N/A

**Evaporation Rate (BuAc=1):** Greater than 1

**Appearance and Odor:** Clear, colorless liquid with characteristic

odor.

## Section 10 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Heat and sources of ignition.

**Incompatibility (Materials to Avoid):** Acids, Oxidizers, Halogens, Aldehydes, Bases, Alkalies,

**Hazardous Decomposition Products:** COx,

**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** N/A

**Effects of Overexposure:**

**Acute:** See Section 2

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

**Conditions Aggravated by Overexposure:** Liver disorders, Gastrointestinal,

**Target Organs:** Kidneys, Liver, Gastrointestinal tract, Cardiovascular system,

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

## Section 12 - Ecological Data

**EPA Waste Numbers:** D001, D002

## 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:** UN2924, Flammable liquids, corrosive, n.o.s.(ethanol, 95%; glacial acetic acid), 3, II

Labels required: Flammable liquid, corrosive

## Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** Acute

**Name List:**

Acetic Acid, Glacial - No

Ethyl Alcohol - No

**Chemical Category:**

Acetic Acid, Glacial - No

Ethyl Alcohol - No

**CERCLA Section 103 RQ(lb.):** Acetic Acid, Glacial - 5000 lbs

Ethyl Alcohol - No

**RCRA Section 261.33:** Acetic Acid, Glacial - No

Ethyl Alcohol - 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
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