

## Material Safety Data Sheet



# Ethyl Acetate

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**Carolina Biological Supply Company**

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**CAROLINA**

[www.carolina.com](http://www.carolina.com)

### Section 1 - Product Description

**Product Name:** Ethyl Acetate

**Product Code(s):** 861490, 861492, C71489

**Size:** 30 mL, 500 mL, 4 L

**Chemical Name:** Ethyl Acetate

**CAS Number:** 141-78-6

**Formula:** CH<sub>3</sub>COOC<sub>2</sub>H<sub>5</sub>

**Synonyms:** Acetic Ether, Acetoxyethane, Ethyl Ethanoate, Vinegar naptha

**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:** **WARNING** - Highly flammable. Harmful by inhalation. Irritating to eyes, respiratory system and skin.

**Potential Health Effects:**

**Eyes:** May cause irritation.

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

**Ingestion:** May cause gastrointestinal discomfort.

**Inhalation:** Harmful: danger of serious damage to health by prolonged exposure through inhalation.

### Section 3 - Composition / Information on Ingredients

**Principal Hazardous Components:** Ethyl Acetate (CAS # 141-78-6) 100%

**TLV units:** ACGIH-TLV 400 ppm (TWA)

**PEL units:** OSHA-PEL 400 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, 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.

### Section 5 - Firefighting Procedures

**Flash Point (Method Used):** -4.4 °C (CC)

**NFPA Rating:**

**Health:** 1

**Fire:** 3

**Reactivity:** 0

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

**Flammable Limits in Air % by Volume:** 2.2% - 9%

**Autoignition Temperature:** 426°C (798°F)

**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.

Risk of explosion by shock, friction, fire or other sources of ignition.

## 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:** Keep away from sources of ignition - No smoking.

Bond and ground containers when transferring liquid.

Do not breathe gas/fumes/vapour/spray. This material should be kept in an area suitable for the storage of flammable liquids.

Store away from oxidizing agents, sparks and flame.

## 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:** 88.11

**Boiling Point:** 77°C (170°F)

**Vapor Density(Air=1):** 3.04

**Percent Volatile by Volume:** 100%

**Solubility in Water:** Soluble

**Melting Point:** -83°C (-117°F)

**Vapor Pressure:** 100 mmHg at 27.0 °C

**Specific Gravity (H2O=1):** 0.902 at 20°C

**Evaporation Rate (BuAc=1):** 6

**Appearance and Odor:** Clear, colorless liquid, Sweet odor.

## Section 10 - Reactivity Data

**Stability:** Stable

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

Explosive when mixed with oxidising substances.

Avoid Dusting. May become explosive when dispersed in air.

**Incompatibility (Materials to Avoid):** Acids, Oxidizers, Alkalis,

**Hazardous Decomposition Products:** COx,

**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** orl-rat LD50 5620 mg/kg

**Effects of Overexposure:**

**Acute:** See Section 2

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

**Conditions Aggravated by Overexposure:** Respiratory disorders, Impaired Kidney Function, Liver disorders, Skin disorders,

**Target Organs:** Respiratory system, Mucous Membranes, Cardiovascular system, Central Nervous System,

**Primary Route(s) of Entry:** Inhalation and ingestion.

## Section 12 - Ecological Data

**EPA Waste Numbers:** U112, D001

## 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:** UN1173

ETHYL ACETATE

Class 3

P.G. II

## Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

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

**Name List:**

Ethyl acetate - No

**Chemical Category:**

Ethyl acetate - No

**CERCLA Section 103 RQ(lb.):** Ethyl acetate - 5000 lbs (2270 kg)

**RCRA Section 261.33:** Ethyl acetate - Yes

## 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