



Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300

MATERIAL SAFETY DATA SHEETS

SECTION I

PRODUCT AND COMPANY IDENTIFICATION

Product: Ethyl Acetate

This MSDS is valid for all grades and catalog numbers

Synonyms: Acetic acid ethyl ester; ethyl ethanoate; ethyl acetic ester, acetic ester; acetoxyethane

Formula: CH₃COOC₂H₅

Manufacturer: PHARMCO-AAPER
Pharmco Products Inc.
58 Vale Road
Brookfield, Connecticut 06804, USA
Phone (203) 740-3471
Fax (203) 740-3481

AAPER Alcohol and Chemical Co.
1101 Isaac Shelby Drive
Shelbyville, KY 40065
Phone (502) 633-0650
Fax (502) 633-0685

Emergency Contact:
CHEMTREC 1-800-424-9300

SECTION II

COMPOSITION / INFORMATION ON INGREDIENTS

%wt	Material	CAS	Exposure Limits
100%	Ethyl Acetate	141-78-6	400ppm- OSHA/PEL; ACGIH/TLV

SECTION III

HAZARDS IDENTIFICATION

**WARNING! FLAMMABLE LIQUID AND VAPOR.
HARMFUL IF SWALLOWED OR INHALED.
AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES
IRRITATION TO SKIN, EYES AND RESPIRATORY
TRACT**

Routes of Exposure:

Swallowing: May cause headache, nausea, vomiting, dizziness, gastrointestinal irritation

Skin Absorption: Not identified

Inhalation: Irritation of nose and throat, headache, nausea, vomiting, narcosis, respiratory failure, low blood pressure, central nervous system depression.

Skin Contact: May cause irritation

Eye Contact: May cause irritation including stinging, tearing, and redness

Effects of Repeated Overexposure: May result in the development of kidney, liver, heart, or lung damage and/or central nervous system depression

Other Health Hazards: None currently known

Medical Conditions Aggravated by Overexposure:

Skin contact may aggravate an existing dermatitis.

Respiratory system disease and anemia may be aggravated by exposure.

SECTION IV

FIRST AID

Obtain medical attention for all cases of over-exposure.

Swallowing: If patient is fully conscious, induce vomiting. Obtain medical attention.

Skin: Wash skin with soap and water for at least 15 minutes

Inhalation: Remove to fresh air; Give artificial respiration if not breathing; If breathing is difficult oxygen may be given by qualified personnel; Obtain medical assistance if discomfort persists.

Eye Contact: Flush eyes with water for at least 15 minutes. Obtain medical attention.

SECTION V

FIRE FIGHTING MEASURES

Class IB Flammable Liquid

Fire/Explosive Properties

Flash Point: 24F (-4C) Tag Closed Cup

Flammable Limits in Air: 2.0 - 11.5% (by volume)

NFPA Rating: Health 1 Fire 3 Reactivity 0

1996 North American Emergency Response Guidebook: Guide 129

Extinguishing Media: Apply alcohol-type or all-purpose foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

Special Fire Fighting Procedures: Use water spray to cool fire-exposed containers and structures; Use water spray to disperse vapors - re-ignition is possible; Use self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards:

- Vapors may travel to source of ignition and flash back.
- Vapors may settle in low or confined spaces.
- May produce a floating fire hazard.
- Static ignition hazard can result from handling and use.

SECTION VI

SPILL/ACCIDENTAL RELEASE MEASURES

All spills: Eliminate all ignition sources; ground all equipment; do not walk through spill; stop spill if possible; prevent entry into sewers, confined spaces, etc.; use a vapor suppressing foam to reduce vapors; absorb spill with non-

combustible matter and transfer to containers; use non-sparking tools to collect absorbed material.

SECTION VII

HANDLING AND STORAGE

- Flammable material - keep away from heat, sparks, and flame; sudden releases of hot organic vapors or mists from process equipment operating at elevated temperature may result in ignitions without the presence of obvious ignition sources.
- Avoid contact with eyes.
- Keep container closed.
- Use with adequate ventilation.
- Ground container when transferring product.
- Vapors may collect in containers; treat empty containers as hazardous.
- Wash thoroughly after handling
- Vapors may settle in low or confined areas

SECTION VIII

EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Special, local ventilation is needed where vapors escape to the workplace air

Respiratory Protection: Use self-contained breathing apparatus in high vapor concentration

Personal Protective Equipment: gloves, lab coat or uniform, safety glasses, eyewash, safety shower

SECTION IX

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid.

Odor: Fruity odor.

Solubility: 1 ml/10ml water @ 25C

Specific Gravity: 0.902 @ 20C/4C

% Volatiles by volume @ 21C (70F): 100

Boiling Point: 77C (171F)

Melting Point: -83C (-117F)

Vapor Density (Air=1): 3.0

Vapor Pressure (mm Hg): 76 @ 20C (68F)

Evaporation Rate (BuAc=1): 6

SECTION X

STABILITY/REACTIVITY INFORMATION

Stability: Stable

Conditions to avoid: Heat, flame, etc.

Incompatibility/Materials to avoid: strong oxidizing/reducing agents; strong inorganic acids/bases; alkalis

Hazardous Combustion/Decomposition Products:

Carbon monoxide and/or carbon dioxide

Hazardous Polymerization: Will not occur

SECTION XI

DISPOSAL CONSIDERATIONS

Vapors may collect in empty containers. Treat empty containers as hazardous.

Dispose of spill-clean up and other wastes in accordance with Federal, State, and local regulations.

SECTION XII

TRANSPORTATION INFORMATION

Proper Shipping Name: Ethyl Acetate

Hazard Class: 3

UN Number: 1173

RQ: 5000lbs

Packaging Group II

IMO Information: Ethyl Acetate

Label of Class: 3.2

Packaging Group II

Intermediate flashpoint group

SECTION XIII

REGULATORY INFORMATION

Federal EPA

Comprehensive Environmental Response Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in CFR. Components present in this product at a level, which could require reporting under this statute, are:

Chemical	CAS Number	RQ
Ethyl Acetate	141-78-6	5000lbs

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on threshold planning quantities and release reporting based on reportable quantities in 40 CFR 355 (used for SARA 302, 304, 311, and 312).

Based upon available information, this material is classified as the following health and/or physical hazard according to section 311 & 312:

Immediate (Acute) Health Hazard,

Chronic Health Hazard

Fire Hazard.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are: None.

Toxic Substances Control Act (TSCA) Status:

The ingredients of this product are on the TSCA inventory.

State Right to Know

No components of this product are listed on the California Prop 65 lists

This product contains ethyl acetate (CAS 141-78-6) upper bound concentration 100% which may be listed as a hazardous substance by individual states.

California SCAQMD Rule 443.1 (VOC's)

A Volatile Organic Compound (VOC) is any volatile

compound of carbon excluding methane, carbon monoxide,

carbonic acid, metallic carbides, or carbonates, ammonium carbonate, 1,1,1 tri-chloroethane, methylene chloride, (FC-23), (CFC-113), (CFC-12), (CFC-11), (CFC-22), (CFC-114) and (CFC-115).

Information not available

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.