



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 #'s

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

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

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

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

### 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

Fire/Explosive Properties

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

Flammable Limits in Air: 2.2 - 11.0% (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

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## 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, eye wash, safety shower

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## SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, colorless liquid

Odor: characteristic

Vapor pressure @ 20C: 76 mm Hg

Vapor density: 3.0 (air =1)

Boiling point @ 760mm Hg: 77C (170F)

Melting Point: -84C (-119F)

Solubility in Water: Moderate (1-10%) @ 20C

Density @25C: .8942 g/ml

Evaporation Rate: 4.1 (butyl acetate = 1)

Percent Volatiles: 100%

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## 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; alkalies

Hazardous Combustion/Decomposition Products:

Carbon monoxide and/or carbon dioxide

Hazardous Polymerization: Will not occur

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## 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

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## 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 | Upper Bound Conc. % |
|---------------|------------|---------------------|
| Ethyl Acetate | 141-78-6   | 100%                |

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). Components present in this product at a level which could require reporting under this statute are:  
Not available

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

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:

Not available

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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.