



## MATERIAL SAFETY DATA SHEET

### ETHYL ACETATE

Revision Number : 00

Revision Date: 00

Issuing Date: 01.01.2014

#### Section 1 - Chemical Product and Company Identification

##### Product identifier

**Product Name** : ETHYL ACETAE  
**Synonyms** : Ethyl Acetate, ethyl acetate  
**CAS No.** : 141-78-6  
**Chemical Formula** : C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>  
**Use** : Solvent, For industrial use only

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#### Section 2 - Composition, Information on Ingredients

Ingredient	CAS#	Percent	Hazardous
Ethyl Acetate	141-78-6	100%	Yes

CAS-No. 141-78-6  
Symbol(s) F, Xi

Index-No. 607-022-00-5  
R-phrase(s) -R11 -R36 -R66 -R67

EC-No. 205-500-4

*For the full text of the R-phrases mentioned in this Section, see Section 16.*

#### Section 3 - Hazards Identification

##### Identification of the risks

**R11** Highly flammable.  
**R36** Irritating to eyes.  
**R66** Repeated exposure may cause skin dryness or cracking.  
**R67** Vapours may cause drowsiness and dizziness. Particular risks to human beings and the environment

#### Section 4 - First Aid Measures

##### General advice

When symptoms persist or in all cases of doubt seek medical advice.

##### Inhalation

Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.



<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

#### Section 5 - Firefighting Measures

<b>Suitable extinguishing media</b>	Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO <sub>2</sub> )
<b>Extinguishing media which shall not be used for safety reasons</b>	No information available.
<b>Specific hazards during Firefighting</b>	Vapours may form explosive mixtures with air. Flash back possible over considerable distance.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Further information</b>	Cool containers / tanks with water spray.

#### Section 6 - Accidental Release Measures

<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist. Material can create slippery conditions.
<b>Environmental precautions</b>	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material and dispose of as hazardous waste.

#### Section 7 - Handling and Storage

<b>Handling</b>	
<b>Safe handling advice</b>	Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Take precautionary measures against static discharge. Ensure all equipment is electrically grounded before beginning transfer operations.
<b>Advice on protection against fire and explosion</b>	Keep away from heat and sources of ignition. Use explosion-proof equipment.
<b>Storage</b>	
<b>Requirements for storage areas and containers</b>	Keep containers tightly closed in a dry, cool and well-ventilated place

#### Section 8 - Exposure Controls, Personal Protection

<b>Components with workplace control parameters</b>	
<b>NATIONAL OCCUPATIONAL EXPOSURE LIMITS</b>	Contains no substances with occupational exposure limit values.
<b>EUROPEAN OCCUPATIONAL EXPOSURE LIMITS</b>	Contains no substances with occupational exposure limit values.



**Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.

**Personal protective equipment**

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection**

Gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

**Eye protection**

Safety glasses with side-shields

**Skin and body protection**

Protective suit, Safety shoes

**Hygiene measures**

Wash hands before breaks and immediately after handling the product.

**Protective measures**

Wear suitable protective equipment.

Section 9 - Physical and Chemical Properties

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid
<b>Colour</b>	Clear, colourless liquid
<b>Odour</b>	ether-like
<b>pH</b>	7
<b>Melting point/range</b>	-83.6 °C
<b>Boiling point/boiling range</b>	77 °C
<b>Flash point</b>	-3 °C; Closed cup
<b>Autoignition temperature</b>	427 °C
<b>Lower explosion limit</b>	2.2 %(V)
<b>Upper explosion limit</b>	11.5 %(V)
<b>Vapour pressure</b>	124.256 hPa; 20 °C
<b>Density</b>	0.902 g/cm <sup>3</sup>
<b>Water solubility</b>	Completely miscible
<b>Viscosity, dynamic</b>	0.44 mPa.s
<b>Viscosity, kinematic</b>	0.48 mm <sup>2</sup> /s
<b>Relative vapour density</b>	3.04(Air = 1.0)

Section 10 - Stability and Reactivity

<b>Materials to avoid</b>	Strong oxidizing agents, Incompatible with acids., Halogenated compounds
<b>Hazardous decomposition products</b>	Carbon oxides
<b>Hazardous reactions</b>	Hazardous polymerisation does not occur.

Section 11 - Toxicological Information

<b>Acute oral toxicity</b>	LD50 rat: 5,620 mg/kg; literature value LD50 rabbit: 4,940 mg/kg; literature value
<b>Acute inhalation toxicity</b>	LC50 rabbit: 2,500 mg/l; ; 4 h; literature value LC50 rat: 4,000 mg/l; ; 4 h; literature value
<b>Skin irritation</b>	No data available
<b>Eye irritation</b>	Eye irritation
<b>Sensitisation</b>	No data available
<b>Genotoxicity in vitro</b>	No data available



<b>Carcinogenicity</b>	No data available
<b>Human experience:</b> <b>If inhaled</b>	Vapours may cause drowsiness and dizziness.
<b>Human experience:</b> <b>In case of skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Human experience:</b> <b>In case of eye contact</b>	Irritating to eyes
<b>Human experience:</b> <b>If swallowed</b>	No data available

#### Section 12 - Ecological Information

<b>Biodegradability</b>	Readily biodegradable, according to appropriate OECD test.
<b>Bioaccumulation</b>	No data available
<b>Ecotoxicity effects</b>	
<b>Toxicity to fish</b>	LC50 Pimephales promelas: 230 mg/l; 96 h; literature value
<b>Toxicity to algae</b>	No data available
<b>Further information</b>	No data available

#### Section 13 - Disposal Considerations

<b>Product</b>	In accordance with local and national regulations., Do not contaminate ponds, waterways or ditches with chemical or used container., The product should not be allowed to enter drains, water courses or the soil.
<b>Contaminated packaging</b>	Do not burn, or use a cutting torch on, the empty drum. Triple rinse containers. Can be offered for recycling, re-conditioning or puncture.

#### Section 14 - Transport Information

<b>ADR</b>	UN number: 1173; Class: 3; Packaging group: II; F1; Description of the goods: ETHYL ACETATE
<b>RID</b>	UN number: 1173; Class: 3; Packaging group: II; F1; Description of the goods: ETHYL ACETATE
<b>ADNR</b>	UN number: 1173; Class: 3; Packaging group: II; F1; Description of the goods: ETHYL ACETATE
<b>IMDG</b>	UN number: 1173; Class: 3; EmS: F-E, S-D; Packaging group: II; Description of the goods: ETHYL ACETATE
<b>ICAO/IATA</b>	UN number : 1173; Class: 3; Packaging group: II; Description of the goods: Ethyl acetate

Section 15 - Regulatory Information

**Labelling**



**Regulatory base  
Symbol(s)**

67/548/EEC  
F: Highly flammable  
Xi: Irritant

**R-phrase(s)**

R11: Highly flammable.  
R36: Irritating to eyes.  
R66: Repeated exposure may cause skin dryness or cracking.  
R67: Vapours may cause drowsiness and dizziness.

**S-phrase(s)**

S 2: Keep out of the reach of children.  
S16: Keep away from sources of ignition - No smoking.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S33: Take precautionary measures against static discharges.

**Hazardous components  
which must be listed on  
the label**

Ethyl acetate

Section 16 - Additional Information

**Full text of R-phrases referred to under sections 2 and 3**

**R11** Highly flammable.  
**R36** Irritating to eyes.  
**R66** Repeated exposure may cause skin dryness or cracking.  
**R67** Vapours may cause drowsiness and dizziness.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall PT.Pancasakti Putera Kencana be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if PT.Pancasakti Putera Kencana has been advised of the possibility of such damages.*