

## SAFETY DATA SHEET

2304006 | Ethyl acetate

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# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Ethylacetat

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Ethylacetat

CAS No: 141-78-6  
Index No: 607-022-00-5  
EC No: 205-500-4

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Solvents

##### Uses advised against

not known

#### 1.3. Details of the supplier of the safety data sheet

Company name: Deffner & Johann GmbH

Street: Mühläckerstr. 13  
Place: D 97520 Röhlein  
Telephone: +49 9723 93500      Telefax: +49 261 40 38 58  
e-mail: info@deffner-johann.de  
Internet: www.deffner-johann.de  
Responsible Department: info@deffner-johann.de

**1.4. Emergency telephone number:** +49 9723 93500 (Mo-Fr 8:00-15:00)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

ethyl acetate

Signal word: Danger

Pictograms:



##### Hazard statements

H225      Highly flammable liquid and vapour.

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H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P235 Keep cool.  
P261 Avoid breathing vapour/Aerosol.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Dry extinguishing powder to extinguish.  
P501 Dispose of contents/container to local/regional/national/international regulations.

### Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.  
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Sum formula: C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>  
Molecular weight: 88,11

### Hazardous components

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
141-78-6	ethyl acetate	>99 %
	205-500-4 607-022-00-5	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	

Full text of H and EUH statements: see section 16.

### Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).  
Remove contaminated, saturated clothing immediately.

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. If unconscious place in recovery position and seek medical advice. Call a doctor if you feel unwell.

#### After contact with skin

Remove contaminated, saturated clothing immediately. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

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rinsing. In case of eye irritation consult an ophthalmologist.

### **After ingestion**

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

### **4.2. Most important symptoms and effects, both acute and delayed**

Headache. Dizziness. Nausea. Intoxication. unconsciousness. dehydration of skin.

### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam.  
In case of major fire and large quantities: Atomized water.

#### **Unsuitable extinguishing media**

High power water jet.

### **5.2. Special hazards arising from the substance or mixture**

In use, may form flammable/explosive vapour-air mixture. Reignition possible over considerable distance.  
In case of fire may be liberated: Carbon monoxide, Carbon dioxide.

### **5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Remove persons to safety. Remove all sources of ignition. Ventilate affected area.  
Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.  
Wear personal protection equipment. (See section 8.)

### **6.2. Environmental precautions**

Discharge into the environment must be avoided. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### **6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.  
Clean contaminated articles and floor according to the environmental legislation.

### **6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Provide adequate ventilation as well as local exhaustion at critical locations.

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Personal protection equipment (See section 8.)

### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

### Further information on handling

Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol.  
General protection and hygiene measures: See section 8.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Ensure adequate ventilation of the storage area.  
Make sure spills can be contained (e.g. sump pallets or kerbed areas).

#### Advice on storage compatibility

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. Ammonium nitrate and preparations containing ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.  
Recommended storage temperature: 15-25 °C  
Protect against: Light. UV-radiation/sunlight. heat. moisture.

### 7.3. Specific end use(s)

refer to chapter 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL

### 8.2. Exposure controls



#### Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

#### Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Protect skin by using skin protective cream. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse. Use protective skin cream before handling the product.

#### Eye/face protection

Eye glasses with side protection DIN EN 166

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### Hand protection

In case of prolonged or frequently repeated skin contact:

Pull-over gloves of rubber.

Suitable material:

Butyl rubber. (0,5 mm)

(penetration time (maximum wearing period):  $\geq 1$  h)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

### Skin protection

Protective clothing. (flame-retardant)

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

insufficient ventilation.

exceeding exposure limit values

Suitable respiratory protective equipment: gas filtering equipment (EN 141). Type : A

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	characteristic

	<b>Test method</b>
pH-Value:	not determined

#### Changes in the physical state

Melting point:	-83 °C
Initial boiling point and boiling range:	77 °C
Flash point:	-4 °C
Sustaining combustion:	Sustaining combustion

#### Explosive properties

Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.

Lower explosion limits:	2,0 vol. %
Upper explosion limits:	12,8 vol. %
Ignition temperature:	470 °C
Decomposition temperature:	not determined

#### Oxidizing properties

none

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Vapour pressure:  
(at 20 °C) 98,4 hPa  
Density (at 20 °C): 0,9 g/cm<sup>3</sup>  
Water solubility: 86 g/L

### Solubility in other solvents

No information available.

Partition coefficient: not determined  
Viscosity / dynamic: not determined  
Viscosity / kinematic: not determined  
Flow time: not determined  
Vapour density: not determined  
Evaporation rate: not determined

### 9.2. Other information

Solid content: not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat. moisture.  
In use may form flammable/explosive vapour-air mixture.  
Heating causes rise in pressure with risk of bursting.

### 10.5. Incompatible materials

Oxidising agent. Reducing agent, strong. Strong acid. Strong alkali.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
141-78-6	ethyl acetate			
	dermal	LD50 >20000 mg/kg	Rabbit.	ECHA Dossier

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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### Sensitising effects

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

ethyl acetate (CAS-No.: 141-78-6):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

literature information: ECHA Dossier

### STOT-single exposure

May cause drowsiness or dizziness. (ethyl acetate)

### STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

ethyl acetate (CAS-No.: 141-78-6):

Subchronic oral toxicity

Exposure time: 90d

Species: Sprague-Dawley Rat.

Method: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)

Result: NOAEL = 900 mg/kg bw/day

literature information: ECHA Dossier

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Specific effects in experiment on an animal

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
141-78-6	ethyl acetate				
	Acute fish toxicity	LC50 >100 mg/l	96 h	Pimephales promelas	ECHA Dossier
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Green algae	ECHA Dossier

### 12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
141-78-6	ethyl acetate			
	other guideline	>60%	10	ECHA Dossier
	Product is biodegradable.			

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
141-78-6	ethyl acetate	0,73

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6. Other adverse effects

No data available



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### Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.  
Non-contaminated packages may be recycled.  
According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.  
Control report for waste code/ waste marking according to EAKV:

#### Waste disposal number of waste from residues/unused products

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures  
Classified as hazardous waste.

#### Waste disposal number of used product

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures  
Classified as hazardous waste.

#### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances  
Classified as hazardous waste.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

**14.1. UN number:** UN 1173  
**14.2. UN proper shipping name:** ETHYL ACETATE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Limited quantity: 1 L  
Excepted quantity: E2  
Transport category: 2  
Hazard No: 33  
Tunnel restriction code: D/E

### Inland waterways transport (ADN)

**14.1. UN number:** UN 1173  
**14.2. UN proper shipping name:** ETHYL ACETATE  
**14.3. Transport hazard class(es):** 3

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**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Limited quantity: 1 L  
Excepted quantity: E2

### Marine transport (IMDG)

**14.1. UN number:** UN 1173  
**14.2. UN proper shipping name:** ETHYL ACETATE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: -  
Limited quantity: 1 L  
Excepted quantity: E2  
EmS: F-E, S-D

### Air transport (ICAO)

**14.1. UN number:** UN 1173  
**14.2. UN proper shipping name:** ETHYL ACETATE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Limited quantity Passenger: 1 L  
Passenger LQ: Y341  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

refer to chapter 6-8

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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### EU regulatory information

2010/75/EU (VOC): 100 %  
2004/42/EC (VOC): 900 g/l  
Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

### Additional information

REACH 1907/2006 Appendix XVII, No (mixture): 3  
This substance is hazardous in the sense of regulation (EC) No 1272/2008 (CLP).

### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
Water contaminating class (D): 1 - slightly water contaminating

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Changes

Rev. 1.0; 08.06.2016, Neuerstellung

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dosis, 50 percent  
NOAEL: No observed effect Level  
DNEL: Derived No Effect Level  
PNEC: predicted no effect concentration

### Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
EUH066 Repeated exposure may cause skin dryness or cracking.

### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.