



## Ethyl acetate

31063-2.5L

Version 2.3

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Supersedes 1

### SECTION 2: Hazards identification


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

##### REGULATION (EC) No 1272/2008

Flammable liquids Category 2  
H225 Highly flammable liquid and vapour.  
Eye irritation Category 2  
H319 Causes serious eye irritation.  
Specific target organ toxicity - single exposure Category 3 - Central nervous system  
H336 May cause drowsiness or dizziness.

#### 2.2. Label elements

##### REGULATION (EC) No 1272/2008

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	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.
Precautionary statements	:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ eye protection/ face protection. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

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P308 + P313

Continue rinsing.  
IF exposed or concerned: Get medical  
advice/ attention.

### 2.3. Other hazards

Aspiration hazard if swallowed - can enter lungs and cause damage. May form explosive mixtures in air.  
Results of PBT and vPvB assessment, see chapter 12.5.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
ethyl acetate	141-78-6 607-022-00-5 205-500-4	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336; Central nervous system EUH066	100 %	

### 3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

*General advice:*

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

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*Inhalation:*

In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms persist, call a physician.

*Skin contact:*

After contact with skin, wash immediately with plenty of soap and water. Call a physician if irritation develops or persists.

*Eye contact:*

Rinse immediately with plenty of water, also under the eyelids. Protect unharmed eye. Call a physician immediately.

*Ingestion:*

When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

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

No data available

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

No data available

See Section 11 for more detailed information on health effects and symptoms.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:*

Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

*Extinguishing media which shall not be used for safety reasons:*

High volume water jet

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

Flash back possible over considerable distance.  
Cool closed containers exposed to fire with water spray.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### SECTION 6: Accidental release measures

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

Ensure adequate ventilation. Evacuate personnel to safe areas. Do not breathe vapours or spray mist.  
Remove all sources of ignition.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

#### 6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

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Pick for disposal in tightly closed containers  
Use low-sparking handtools and explosion-proof electrical equipment

### 6.4. Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

*Advice on safe handling:*

Exhaust ventilation at the object is necessary. Use explosion-proof equipment.

*Advice on protection against fire and explosion:*

The product is easily combustible. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. Labeling danger zone "risk of explosion". Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep product and empty container away from heat and sources of ignition.

*Hygiene measures:*

Recommended preventive skin protection Keep working clothes separately. General industrial hygiene practice.

*Temperature class:*

T2

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

*Further information on storage conditions:*

Keep only in the original container in a cool, well-ventilated place. Keep container dry. Do not leave vessels/containers open Keep away from heat. Keep away from direct sunlight.

*Advice on common storage:*

Do not store together with: Oxidizing agents Acids Bases

### 7.3. Specific end use(s)

no additional data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### *Occupational exposure limits:*

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
ethyl acetate	EH40 WEL STEL	400 ppm		
ethyl acetate	EH40 WEL TWA	200 ppm		
ethyl acetate	EU ELV STEL	1.468 mg/m <sup>3</sup> 400 ppm		Indicative
ethyl acetate	EU ELV TWA	734 mg/m <sup>3</sup> 200 ppm		Indicative
ethyl acetate	EH40 WEL STEL	1.468 mg/m <sup>3</sup> 400 ppm		
ethyl acetate	EH40 WEL TWA	734 mg/m <sup>3</sup> 200 ppm		

STEL - Short term exposure limit  
TWA - Time weighted average

##### **DNEL/ PNEC-Values**

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
ethyl acetate	Workers / Acute systemic effects		1468 mg/m <sup>3</sup>	Inhalation	
ethyl acetate	Workers / Acute local effects		1468 mg/m <sup>3</sup>	Inhalation	
ethyl acetate	Workers / Long-term systemic effects		734 mg/m <sup>3</sup>	Inhalation	
ethyl acetate	Workers / Long-term		63mg/kg bw/d	Skin contact	

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	systemic effects				
ethyl acetate	Workers / Long-term local effects		734 mg/m3	Inhalation	
ethyl acetate	Consumers / Acute systemic effects		734 mg/m3	Inhalation	
ethyl acetate	Consumers / Acute local effects		734 mg/m3	Inhalation	
ethyl acetate	Consumers / Long-term systemic effects		367 mg/m3	Inhalation	
ethyl acetate	Consumers / Long-term local effects		367 mg/m3	Inhalation	
ethyl acetate	Consumers / Long-term systemic effects		37mg/kg bw/d	Skin contact	

Component	Environmental compartment / Value	Remarks
ethyl acetate	Fresh water: 0,26 mg/l	
ethyl acetate	Soil: 0,22 mg/kg	
ethyl acetate	Sewage treatment plant: 650 mg/l	
ethyl acetate	Sediment: 0,34 mg/kg	



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### 8.2. Exposure controls

#### Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Take off all contaminated clothing immediately.

#### Personal protective equipment

##### *Respiratory protection:*

In the case of vapour formation use a respirator with an approved filter.

##### *Hand protection:*

Glove material: butyl-rubber

Break through time: > 120 min

Glove thickness: 0,7 mm

Butoject® 898

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer´s directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

##### *Eye protection:*

Safety goggles

##### *Skin and body protection:*

Wear suitable protective equipment.

Flame retardant antistatic protective clothing.

Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire.

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### Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

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

Physical state	: liquid
Colour	: colourless
Odour	: characteristic fruity
Melting point/range	: -84 °C
Boiling point/boiling range	: 77 °C at 1.013 hPa
Flammability	: Not applicable
Upper explosion limit	: 11,5 %(V)
Lower explosion limit	: 2,1 %(V)
Flash point	: -4 °C Method: closed cup
Auto-ignition temperature	: 427 °C
Decomposition temperature	: At normal pressure may be distilled without decomposition.
pH	: No data available
Viscosity, kinematic	: not determined
Water solubility	: ca. 80 g/l at 20 °C
Solubility in other solvents	: Soluble in most organic solvents
Partition coefficient: n-	: log Pow 0,68

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octanol/water

Vapour pressure : ca. 100 hPa  
at 20 °C

Vapour pressure : 379 hPa  
at 50 °C

Density : 0,902 g/cm<sup>3</sup>  
at 20 °C

Relative vapour density : ca. 3  
(Air = 1.0)

### 9.2 Other Information

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Viscosity, dynamic : ca. 0,45 mPa.s  
at 20 °C

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

At normal pressure may be distilled without decomposition.

### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### 10.4. Conditions to avoid

Keep away from heat and sources of ignition.  
Keep away from direct sunlight.

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### 10.5. Incompatible materials

Vapours may form explosive mixtures with air.  
Plastic materials can be attacked.  
Explosive reactions with oxidising agents such as potassium chlorate and/or peroxides.

### 10.6. Hazardous decomposition products

Acetic acid  
Flammable gases/vapours

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

*Acute oral toxicity:*

LD50

Species: Rabbit

Value: 4.934 mg/kg

Method: OECD Test Guideline 401

*Acute dermal toxicity:*

LD50

Species: Rabbit

Value: > 18.000 mg/kg

*Acute inhalation toxicity:*

LC50

Species: Rat

Value: 56 mg/l

Exposure time: 4 h

*Skin irritation:*

Species: Rabbit

Classification: non-irritant

Method: OECD Test Guideline 404

*Eye irritation:*

Species: Rabbit

Classification: non-irritant

Method: OECD Test Guideline 405

*Respiratory or skin sensitisation:*

Species: Guinea pig

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Classification: non-sensitizing  
Method: OECD Test Guideline 406

*Aspiration hazard:*  
No data available

### 11.2. Information on other hazards

Endocrine disrupting properties  
No data available

*Other information:*  
Not mutagenic in Ames Test  
Solvent vapours have a narcotic effect if inhaled in high concentrations.  
Solvents may degrease the skin.  
Prolonged skin contact may cause skin irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

*Toxicity to fish:*  
LC50  
Species: *Salmo gairdneri*  
Value: 230 mg/l  
Exposure time: 96 h

*Toxicity to aquatic plants:*  
NOEC  
Species: *Desmodesmus subspicatus* (green algae)  
Value: > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50  
Species: *scenedesmus subspicatus*  
Value: 3.300 mg/l  
Exposure time: 48 h

*Toxicity to Microorganisms:*  
EC10  
Species: *Pseudomonas putida*

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Value: 650 mg/l  
Exposure time: 16 h  
Method: DIN 38412

### *Toxicity to aquatic invertebrates:*

#### EC50

Species: Daphnia magna (Water flea)

Value: 3.090 mg/l

Exposure time: 24 h

Method: DIN 38412

#### NOEC

Species: Daphnia magna (Water flea)

Value: 2,4 mg/l

Exposure time: 21 d

### **12.2. Persistence and degradability**

#### *Biodegradability:*

Biodegradation: 100 %

Exposure time: 28 d

Result: Readily biodegradable.

Method: OECD 301 D

### **12.3. Bioaccumulative potential**

Bioaccumulation is unlikely.

### **12.4. Mobility in soil**

No data available

### **12.5. Results of PBT and vPvB assessment**

No data available

### **12.6. Endocrine disrupting properties**

No data available

### **12.7. Other adverse effects**

Biochemical Oxygen Demand (BOD) : Value: 293 mg/g

Chemical Oxygen Demand (COD) : Value: 1.816 mg/g

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Do not flush into surface water or sanitary sewer system.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID:1173

IMDG:1173

IATA:1173

#### 14.2 UN proper shipping name

ADR/RID:ETHYL ACETATE

IMDG:ETHYL ACETATE

IATA:Ethyl acetate

#### 14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

#### 14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

#### 14.5 Environmental hazards

ADR/RID:no

Marine pollutant: no

#### 14.6 Special precautions for user

No data available

#### 14.7 Maritime transport in bulk according to IMO instruments

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No data available

**SECTION 15: Regulatory information**

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

Basis	Value	Remarks
Directive 2012/18/EC SEVESO III Listed in Regulation : P5c: FLAMMABLE LIQUIDS Number in Regulation: 1.2.5.3	<b>Quantity:</b> 5.000.000 kg <b>Quantity:</b> 50.000.000 kg	
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1\%$ (w/w).

**Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftninformation);+46104566786



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Ireland	+353(1)8092166	Switzerland	145
Italy	0382 24444	United Kingdom	(+44) 844 892 0111
Germany	Berlin : 030/19240		
	Bonn : 0228/19240		
	Erfurt : 0361/730730		
	Freiburg : 0761/19240		
	Göttingen : 0551/19240		
	Homburg : 06841/19240		
	Mainz : 06131/19240		
Munich : 089/19240			
Latvia	+37167042473		

**Other inventory information**

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List  
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)  
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)  
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)  
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand  
On the inventory, or in compliance with the inventory

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Taiwan Chemical Substance Inventory (TCSI)  
On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Text of H-statements referred to under heading 3

ethyl acetate : 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

All directives and regulations refer to amended versions.  
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

#### Abbreviations:

EC European Community  
CAS Chemical Abstracts Service  
DNEL Derived no effect level  
PNEC Predicted no effect level  
vPvB Very persistent and very bioaccumulative substance  
PBT Persistent, bioaccumulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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