

according to Regulation (EC) No 1907/2006

## Ethyl acetate > 99.5 % (acetic acid ethylester) for analysis

Revision date: 26.07.2023

Product code: 20198

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

## 1.1. Product identifier

Ethyl acetate > 99.5 % (acetic acid ethylester) for analysis

REACH Registration Number:	01-2119475103-46-XXXX
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

Laboratory chemical Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

.3. Details of the supplier of the safety data sheet
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1.3. Details of the supplier of the saf	ety data sheet	
Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax:0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Dangerous (	Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMTREC 1-800-424-9300 Outside USA and Canac accepted)	

## **Further Information**

No data available

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

**Pictograms:** 

H225



Hazard statements

Highly flammable liquid and vapour.



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H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
Precautionary statemen	its	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P280		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P403+P235	Store in a well-ventilated place. Keep cool.	
Special labelling of cert	ain mixtures	
EUH066	Repeated exposure may cause skin dryness or cracking.	
2.2 Other hazarda		

#### 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Sum formula:	CH3COOC2H5
Molecular weight:	88,11 g/mol

## Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation	on (EC) No 1272/2008)		
141-78-6	ethyl acetate			100 %
	205-500-4	607-022-00-5	01-2119475103-46-XXXX	
	Flam. Liq. 2, Eye Irrit. 2,	STOT SE 3; H225 H319 H336 EUH	066	

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name		Quantity
	Specific Conc. L	imits, M-factors and ATE	
141-78-6	205-500-4	ethyl acetate	100 %
	dermal: LD50 =	: > 20000 mg/kg; oral: LD50 = 4934 mg/kg	

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

## General information

No data available

## After inhalation

Provide fresh air. Call a physician immediately.

## After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.



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#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

### After ingestion

Observe risk of aspiration if vomiting occurs. Call a physician immediately.

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal.

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

#### Irritant

Respiratory complaints Dizziness The product causes narcotic-like effects. Gastrointestinal complaints Vomiting Headache Vapours may cause drowsiness and dizziness. Dizziness Repeated exposure may cause skin dryness or cracking.

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

No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

## Unsuitable extinguishing media

no restriction

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

Combustible liquid. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide

## 5.3. Advice for firefighters

Remove persons to safety. Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus.

## Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

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

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

#### General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Take action to prevent static discharges.



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## For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

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

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

## For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 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

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

#### Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

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



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### Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed and dry.

## Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

## Further information on storage conditions

storage temperature +2°C - +25°C Protect against: Light

#### 7.3. Specific end use(s)

Laboratory use Laboratory chemical

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
141-78-6	Ethyl acetate	200	734		TWA (8 h)	
		400	1468		STEL (15 min)	

## **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
141-78-6	ethyl acetate			
Worker DNEL,	long-term	inhalation	systemic	734 mg/m³
Worker DNEL,	acute	inhalation	systemic	1468 mg/m³
Worker DNEL,	long-term	inhalation	local	734 mg/m³
Worker DNEL,	acute	inhalation	local	1468 mg/m³
Worker DNEL,	long-term	dermal	systemic	63 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	367 mg/m³
Consumer DN	EL, acute	inhalation	systemic	734 mg/m³
Consumer DN	EL, long-term	inhalation	local	367 mg/m³
Consumer DN	EL, acute	inhalation	local	734 mg/m³
Consumer DN	EL, long-term	dermal	systemic	37 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	4,5 mg/kg bw/day



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### **PNEC** values

CAS No	Substance		
Environmen	tal compartment	Value	
141-78-6	ethyl acetate		
Freshwater		0,24 mg/l	
Freshwater (intermittent releases) 1,65 mg/l			
Marine water 0,024 mg/l			
Freshwater sediment 1,15 mg/kg			
Marine sediment 0,115 mg/kg			
Secondary poisoning 200 mg/kg			
Micro-organ	650 mg/l		
Soil		0,148 mg/kg	

#### 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

## Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact: No data available

By short-term hand contact Trade name/designation KCL 898 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,7 mm Wearing time with occasional contact (splashes): > 120 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

## **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: A

#### **Environmental exposure controls**

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

#### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state:



Colour:     colour/feess       Odour:     fruity       Odour:     fruity       Odour:     fruity       Melling point/freezing point:     -83 °C       Bolling point or initial bolling point and     77 °C       bolling range:     not applicable       Lower explosion limits:     2,2 vol. %       Flaam hability:     not applicable       Lower explosion limits:     1,5 vol. %       Flaath point:     No data available       Wiscosity / kinematic:     No data available       Wiscosity / kinematic:     No data available       Dissolution rate:     No data available       Dissolution rate:     No data available       Disparsion stability:     No data available       Vapour pressure:     1,3 g/cm²       Relative density:     No data available       Bandiage consisto:     No data available       Under density:     No data available	Ethyl acet Revision date: 26.07.2023	Ethyl acetate > 99.5 % (acetic acid ethylester) for analysis         Revision date: 26.07.2023       Product code: 20198       Page 7 of 1					
Odour:fullyOdour:No data availableMetting point or initial boling point and77 °CBoling point or initial boling point and77 °CBoling point or initial boling point and77 °CPlarmability:not applicableLower explosion limits:2.2 °O %Upper explosion limits:1.15 vol. %4 flash point:4 °CAuto-ignition temperature:not determinedpH-Value:No data availableViscosity / kinematic:No data availableViscosity / kinematic:No data availableViscosity / kinematic:No data availableViscosity / kinematic:No data availableValue:No data availableValue:No data availableViscosity / kinematic:No data availableValue:No data availableDissolution:No data availableDissolution:Sulue:Value:No data availableBulk:No data availableDissolution:Sulue:Sulue:<	Colour:	colourless					
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	Further Information						



AnalytiChem GmbH

according to Regulation (EC) No 1907/2006

## Ethyl acetate > 99.5 % (acetic acid ethylester) for analysis

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No data available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Highly flammable. Vapours can form explosive mixtures with air.

#### 10.2. Chemical stability

Protect against: Light

Air

### 10.3. Possibility of hazardous reactions

Fluorine Oxidising agent Alkali metals Alkaline earth metal Strong acid Strong alkali

## 10.4. Conditions to avoid

Light

Air Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

### 10.5. Incompatible materials

plastic

## 10.6. Hazardous decomposition products

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide

#### Further information

No data available

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Toxicocinetics, metabolism and distribution

No data available

## Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
141-78-6	ethyl acetate			-	-	
	oral	LD50 mg/kg	4934		Ind. Med. Vol. 41, No.4, 31 - 33 (1972)	OECD Guideline 401
	dermal	LD50 mg/kg	> 20000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Similar to one day cuff method of Draize

#### Irritation and corrosivity

Causes serious eye irritation.

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

#### Sensitising effects



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Based on available data, the classification criteria are not met. May cause sensitisation especially in sensitive humans.	
Carcinogenic/mutagenic/toxic effects for reproduction Based on available data, the classification criteria are not met.	
STOT-single exposure May cause drowsiness or dizziness. (ethyl acetate)	
STOT-repeated exposure Repeated exposure may cause skin dryness or cracking. Aspiration hazard	
Based on available data, the classification criteria are not met. Observe risk of aspiration if vomiting occurs.	
Specific effects in experiment on an animal No data available	
Additional information on tests No data available	
Practical experience No data available	
11.2. Information on other hazards	
Endocrine disrupting properties No data available	
Other information Irritant Respiratory complaints	
Dizziness The product causes narcotic-like effects.	
Gastrointestinal complaints Vomiting	
Headache Vapours may cause drowsiness and dizziness. Dizziness	
Further information Prolonged or repeated skin contact may cause removal of natural fat from the inflammation).	skin resulting in dermatitis (skin
SECTION 12: Ecological information	
12.1. Toxicity	
Based on available data, the classification criteria are not met.	

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
141-78-6	ethyl acetate						
	Acute fish toxicity	LC50	230 mg/l	96 h	Pimephales promelas	Publication (1984)	other: US EPA method E03-05
	Fish toxicity	NOEC mg/l	< 9,65	32 d	Pimephales promelas	http://www.epa.go v/ecotox (1992)	OECD Guideline 210
	Crustacea toxicity	NOEC	2,4 mg/l	21 d	Daphnia magna	Water Research 23: 501-510. (1989)	other: see principles of method below

## 12.2. Persistence and degradability

100 %; 28 d OECD 301D



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Readily biodegradable (according to OECD criteria).

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
141-78-6	ethyl acetate	0,68

#### BCF

CAS No	Chemical name	BCF	Species	Source
141-78-6	ethyl acetate	30	Leuciscus idus melanotus	Chemosphere 14, 1589

### 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. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

## 12.7. Other adverse effects

Do not empty into drains.

## **Further information**

Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

## **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not allow to enter into surface water or drains.

Send to a physico-chemical treatment facility under observation of official regulations.

## Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1173
14.2. UN proper shipping name:	ETHYL ACETATE
<u>14.3. Transport hazard class(es):</u>	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 or ID number:	UN 1173
14.2. UN proper shipping name:	ETHYL ACETATE
14.3. Transport hazard class(es):	3

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according to Regulation (EC) No 1907/2006

Ethyl acetate > 99.5 % (acetic acid ethylester) for analysis				
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14.4. Packing group:				
Hazard label:	3			
Classification code:	F1 1 L			
Limited quantity: Excepted quantity:	E2			
	LZ			
Marine transport (IMDG) 14.1. UN number or ID number:	UN 1173			
14.2. UN proper shipping name:	ETHYL ACETATE			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	а П			
Hazard label:	3			
Special Provisions:	-			
Limited quantity:	1 L			
Excepted quantity:	E2			
EmS:	F-E, S-D			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID 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: Excepted quantity:	Y341 E2			
IATA-packing instructions - Passenger:		53		
IATA-max. quantity - Passenger:		5 L		
IATA-packing instructions - Cargo:		64		
IATA-max. quantity - Cargo:	6	60 L		
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
14.6. Special precautions for user				
Warning: Combustible liquid.	IMO in of mumorate			
14.7. Maritime transport in bulk according to	INIC Instruments			
not applicable				
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regul	ations/legislation speci	fic for the substance or mixture		
EU regulatory information				
Restrictions on use (REACH, annex XVII):				
Entry 3, Entry 40				
Information according to 2012/18/EU	P5c FLAMMABLE LIQ	UIDS		
(SEVESO III):				
National regulatory information				
Employment restrictions:		employment for juveniles according to the 'juver	nile	
	work protection guidelin	, ,		
Water hazard class (D):	1 - slightly hazardous to	o water		
15.2. Chemical safety assessment				
For this substance a chemical safety as	sessment has not been	carried out.		

## SECTION 16: Other information



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## Changes

This data sheet contains changes from the previous version in section(s): 9,12.

### 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) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Flam. Liq: Flammable liquid Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure

## 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. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.