

Ethyl acetate GC > 99.8 % (acetic acid ethylester) for residue analysis

according to Regulation (EC) No 1907/2006

Revision date: 26.07.2023

Product code: 19152

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

1.1. Product identifier

Ethyl acetate GC > 99.8 % (acetic acid ethylester) for residue 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 sat	fety 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 Cana 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 statemer	nts	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P240	Ground and bond container and receiving equipment.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
Special labelling of cert	tain mixtures	
EUH066	Repeated exposure may cause skin dryness or cracking.	
2.3 Other hazards		

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 (EC) No 1272/2008)				
141-78-6	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 EUH066				

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

Specific Conc. Limits, M-factors and ATE CAS No EC No Chemical name Specific Conc. Limits, M-factors and ATE 141-78-6 205-500-4 ethyl acetate 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.

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

Quantity

100 %





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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.

For non-emergency personnel

Provide adequate ventilation.



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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

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.



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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/m ³	
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 DNE	EL, long-term	inhalation	systemic	367 mg/m³	
Consumer DNE	EL, acute	inhalation	systemic	734 mg/m³	
Consumer DNE	EL, long-term	inhalation	local	367 mg/m³	
Consumer DNE	EL, acute	inhalation	local	734 mg/m³	
Consumer DNE	EL, long-term	dermal	systemic	37 mg/kg bw/day	
Consumer DNE	EL, long-term	oral	systemic	4,5 mg/kg bw/day	

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 wate	r	0,024 mg/l
Freshwater	sediment	1,15 mg/kg
Marine sedir	nent	0,115 mg/kg
Secondary p	ooisoning	200 mg/kg
Micro-organisms in sewage treatment plants (STP)		650 mg/l
Soil		0,148 mg/kg



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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:	Liquid	
Colour:	colourless	
Odour:	fruity	
Odour threshold:	No data available	
Melting point/freezing point:		-83 °C
Boiling point or initial boiling point and		77 °C
boiling range:		
Flammability:		not applicable
Lower explosion limits:		2,2 vol. %
Upper explosion limits:		11,5 vol. %
Flash point:		-4 °C
Auto-ignition temperature:		460 °C
Decomposition temperature:		not determined
pH-Value:		No data available
Viscosity / kinematic:		No data available



Water solubility: 85,3 g/L (at 20 °C) Solubility in other solvents No data available Dissolution rate: Partition coefficient n-octanol/water: log Pow: 0,73 Dispersion stability: No data available Vapour pressure: 103 hPa (at 20 °C) 0.9 g/cm ² Vapour pressure: No data available Density: 0.9 g/cm ² Relative density: No data available Bulk density: No data available Relative density: No data available Bulk density: No data available Particle characteristics: No data available Bulk density: No data available Particle characteristics: No data available 101 formation with regard to physical hazard classes Explosive properties Vapours can form explosive mixtures with air. Sustaining combustion: Solid: not applicable Gas: not applicable Oxidizing properties No data available Vapours can form explosive mixtures with air. Sustaining combustion: Solid: not applicable Gas: not applicable Oxidizing properties No data available Vester separation rate: No data available <t< th=""><th>evision date: 26.07.2023</th><th>Product code: 19152</th><th>Page 7 of 1</th></t<>	evision date: 26.07.2023	Product code: 19152	Page 7 of 1
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No data available	Further Information		
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SECTION 10: Stability and 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



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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	Rabbit	Ind. Med. Vol. 41, No.4, 31 - 33 (1972)	OECD Guideline 401
	dermal	LD50 mg/kg	> 20000	Rabbit	Am Ind Hyg Ass J, 23 95 (1962)	, 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

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.

Information on likely routes of exposure

No data available



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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

T.z. mormation on other nazarus

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 skin resulting in dermatitis (skin inflammation).

SECTION 12: Ecological information

12.1. Toxicity

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

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



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12.4. Mobility in soil

The product has not been tested.

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)

14.1. UN number or ID number:	UN 1173
14.2. UN proper shipping name:	ETHYL ACETATE
14.3. Transport hazard class(es):	3
<u>14.4. Packing group:</u>	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
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
<u>14.1. UN number or ID number:</u>	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



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Special Provisions: Limited quantity: Excepted quantity: EmS:	- 1 L E2 F-E, S-D					
Air transport (ICAO-TI/IATA-DGR)	,					
14.1. UN number or ID number: 14.1. UN proper shipping name: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-max. quantity - Cargo: 14.5. Environmental hazards	UN 1173 ETHYL ACETATE 3 II 3 1 L Y341 E2	353 5 L 364 60 L				
ENVIRONMENTALLY HAZARDOUS: 14.6. Special precautions for user Warning: Combustible liquid. 14.7. Maritime transport in bulk according to not applicable	No MO instruments					
SECTION 15: Regulatory information						
15.1. Safety, health and environmental regul	ations/legislation sp	ecific for the substance or mixture				
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 40 Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE L					
National regulatory information						
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juven work protection guideline' (94/33/EC).					
Water hazard class (D):	1 - slightly hazardou	is to water				
15.2. Chemical safety assessment						
For this substance a chemical safety as	ecocomont has not ha	on carried out				

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

SECTION 16: Other information

Changes

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





Safety Data Sheet

according to Regulation (EC) No 1907/2006

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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 crackir	ng.

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.