

SAFETY DATA SHEET

Ethyl acetate

According to Regulation (EU) 2020/878 (REACH Annex II) · CLP Regulation (EC) 1272/2008 as amended by EU 2024/2865

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

1.1 Product identifier

Property	Value
Product form	Substance
Chemical name	Ethyl acetate
EC Index-No.	607-022-00-5
EC-No.	205-500-4
CAS-No.	141-78-6
REACH registration No.	01-2119475103-46-XXXX
Molecular formula	C ₄ H ₈ O ₂

1.2 Relevant identified uses

Use of the substance/mixture Industrial use

Restrictions on use No data available

1.3 Details of the supplier

Field	Details
Company	Synthesia Ltd.
Address	Todor Radunchev 9, Krivina 1588, Bulgaria
VAT	BG121306542
Phone	+359 2 974 4968
Email	office@synthesia.bg

1.4 Emergency telephone number

Emergency number 112

SECTION 2: Hazards identification

2.1 Classification

Classification according to Regulation (EC) No. 1272/2008 [CLP] as amended by EU 2024/2865:

Hazard class	Category	Hazard statement
Flammable liquids	Category 2	H225 — Highly flammable liquid and vapour
Serious eye damage/eye irritation	Category 2	H319 — Causes serious eye irritation
Specific target organ toxicity — Single exposure	Category 3 (Narcosis)	H336 — May cause drowsiness or dizziness

Full text of H-statements: see Section 16.

2.2 Label elements

Element	Details
Hazard pictograms	GHS02 (Flame) · GHS07 (Exclamation mark)
Signal word	Danger

Element	Details
Hazard statements	H225 — Highly flammable liquid and vapour. 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. P280 — Wear protective gloves/protective clothing/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. Continue rinsing. P337+P313 — If eye irritation persists: Get medical advice/attention. P403+P233 — Store in a well-ventilated place. Keep container tightly closed.
EUH-statements	EUH066 — Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

This substance does not contain components considered to be persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), persistent, mobile and toxic (PMT), or very persistent and very mobile (vPvM) at levels of 0.1% or higher, in accordance with the criteria of CLP Regulation as amended by EU 2024/2865 and REACH Annex XIII.

This substance is not classified as an endocrine disruptor (ED) according to the criteria of CLP Regulation as amended by EU 2024/2865, Commission Delegated Regulation (EU) 2017/2100, or Commission Regulation (EU) 2018/605.

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.1 Substances

Component	CAS-No.	EC-No.	Index-No.	Classification	Concentration
Ethyl acetate	141-78-6	205-500-4	607-022-00-5	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336	> 99.8%

Molecular weight: 88.11 g/mol | Formula: $C_4H_8O_2$

3.2 Mixtures

Not applicable.

SECTION 4: First aid measures

4.1 Description of first aid measures

Route	Measures
General	Call a poison centre or a doctor if you feel unwell.
After inhalation	Remove person to fresh air and keep comfortable for breathing.
After skin contact	Rinse skin with water/shower. Take off immediately all contaminated clothing.
After eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After ingestion	Rinse mouth. Do not induce vomiting. Call a poison centre or a doctor if you feel unwell.

4.2 Most important symptoms and effects

Symptoms/effects	Description
General	May cause drowsiness or dizziness.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	Eye irritation.

4.3 Indication of immediate medical attention

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media High volume water jet.

5.2 Special hazards

Fire hazard Highly flammable liquid and vapour.

Hazardous decomposition products Toxic fumes may be released. Carbon oxides.

5.3 Advice for firefighters

Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions

Personnel	Measures
For non-emergency personnel	Wear recommended PPE. Ventilate area. No open flames, no sparks, no smoking.
For emergency responders	Eliminate all ignition sources. Evacuate unnecessary personnel.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods for cleaning up

Methods for cleaning up Take up liquid spill into absorbent material.

Other information Dispose of residues at an authorised site.

6.4 Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area.

Hygiene measures: Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage

Storage conditions Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Incompatibilities Heat and ignition sources.

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

EU Occupational Exposure Limits (IOELV) — Ethyl acetate	
IOELV TWA	734 mg/m ³ (200 ppm)
IOELV STEL	1,468 mg/m ³ (400 ppm)
Reference	Directive (EU) 2017/164

DNEL/DMEL — Workers	
Acute - inhalation	1,468 mg/m ³
Long-term - dermal	63 mg/kg bw/day
Long-term - inhalation	734 mg/m ³
DNEL/DMEL — General population	
Acute - inhalation	734 mg/m ³
Long-term - oral	4.5 mg/kg bw/day
Long-term - inhalation	367 mg/m ³
Long-term - dermal	37 mg/kg bw/day
PNEC	
Freshwater	0.24 mg/l
Marine water	0.024 mg/l
Soil	0.148 mg/kg dwt
STP	650 mg/l

8.2 Exposure controls

Control type	Measures
Engineering controls	Ensure good ventilation.
Hand protection	Protective gloves.
Eye protection	Safety glasses.
Respiratory protection	If ventilation insufficient, wear suitable respiratory equipment.
Environmental exposure	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property	Value
Physical state	Clear liquid
Colour / Odour	Colourless / Fruity
Melting point	-84 °C
Boiling point	76.5 – 77.5 °C
Flash point	-4 °C
Auto-ignition	426 °C
Flammability limits	2 – 11.5 vol %
Vapour pressure	73 mm Hg (20 °C)
Vapour density	3.04 (Air = 1)
Density	0.902 g/cm ³ (20 °C)
Solubility (water)	8 g/100 ml (25 °C)
Log Pow	0.73
Viscosity	0.45 mPa·s (20 °C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapour.

10.2 Chemical stability

Stable under normal conditions.

10.3 Hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5 Incompatible materials

No additional information available.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes

Endpoint	Classification	Data
Acute toxicity	Not classified	LD50 oral: 5,620 mg/kg bw (rabbit)
Skin corrosion/irritation	Not classified	
Serious eye damage/irritation	Causes serious eye irritation	
Respiratory/skin sensitisation	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
STOT — single exposure	Category 3 (Narcosis)	May cause drowsiness/dizziness
STOT — repeated exposure	Not classified	NOAEL 900 mg/kg bw (90d rat)
Aspiration hazard	Not classified	

11.2 Other hazards

Not classified as having endocrine disrupting properties according to REACH Article 57(f), CLP as amended by EU 2024/2865.

SECTION 12: Ecological information

12.1 Toxicity

The product is not considered harmful to aquatic organisms.

Endpoint	Value	Species
LC50 (fish, 96h)	230 mg/l	Pimephales promelas
EC50 (daphnia, 48h)	720 mg/l	Daphnia magna
EC50 (algae, 72h)	3,300 mg/l	

12.2 Persistence and degradability

Readily biodegradable — 100% after 28 days.

12.3 Bioaccumulative potential

Log Pow 0.73 (low)

12.4 Mobility in soil

Low mobility.

12.5 PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Endocrine disrupting properties

Not classified as having ED properties.

12.7 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Packaging disposal	Dispose of contents/container to hazardous or special waste collection point.
Additional information	Do not re-use empty containers. Flammable vapours may accumulate.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

Transport mode	UN No.	Proper shipping name	Class	PG	Env.
ADR (road)	1173	ETHYL ACETATE, 3, II, (D/E)	3	II	No
IMDG (sea)	1173	ETHYL ACETATE, 3, II	3	II	No
IATA (air)	1173	Ethyl acetate, 3, II	3	II	No
ADR Details					
Classification code				F1	
Limited quantities				1 L	
Excepted quantities				E2	
Tunnel restriction code				D/E	
Kemler No.				33	
Transport category				2	

14.7 Transport in bulk

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations

15.1.1 EU Regulations

- No REACH Annex XVII restrictions.
- Ethyl acetate is not on the REACH Candidate List (SVHC).
- Ethyl acetate is not on the REACH Annex XIV (Authorisation List).
- Not subject to Regulation (EU) No 649/2012 (PIC).
- Not subject to Regulation (EU) 2019/1021 (POP).

15.1.2 National regulations

Country	Regulation	Status
Germany	Water hazard class (WGK)	WGK 1 — Slightly hazardous to water (AwSV; ID No. 95)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbreviation	Full form
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstract Service number
CLP	Classification, Labelling and Packaging Regulation (EC) No 1272/2008
DNEL	Derived No-Effect Level
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, Bioaccumulative, Toxic
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006
STOT	Specific Target Organ Toxicity
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class (Germany)

Full text of H- and EUH-statements

Code	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.

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