



# SAFETY DATA SHEET

according to Regulation 1907/2006/CE

Doc. N° 25040 rev.2  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name: **Ethyl acetate**  
Product Number: **25040**

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

Identified uses: Laboratory chemicals.

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

Company :

**Biolife Italiana S.r.l.**  
Viale Monza 272, 20128 Milano, Italia.  
Tel.: 0039 02 25209.1 - Fax: 0039 02 2576428  
E-mail: [mktg@biolifeitaliana.it](mailto:mktg@biolifeitaliana.it)

### 1.4 Emergency telephone number

Emergency Phone

Italy : 0039 02 66101029  
Other countries: refer to local Anti-Poison Centre

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Flammable liquid (Cat. 2), H225  
Eye irritation (Cat. 2), H319  
STOT SE (Cat. 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008



Pictogram

Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation..  
H336 May cause drowsiness or dizziness.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray..



P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard EUH066 Repeated exposure may cause skin dryness or cracking

**2.3 Other hazards** none

### 3. Composition/information on ingredients

#### 3.1 Substance

##### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
Ethyl acetate			
N° CAS	141-78-6	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336, EUH066	<= 100 %
N° CE	205-500-4		

For the full text of the H-Statements mentioned in this Section, see Section 16

### 4. First aid measures

#### 4.1 Description of first aid measures

**If inhaled** Non applicabile

**In case of skin contact** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact** Wash thoroughly eyes with plenty of water for at least 15 minutes. If irritation persist consult a physician.

**If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water, do not induce vomiting. Call a physician

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

### 5. Fire fighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

no data available

#### 5.3 Advice for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

Water spray may be used to cool closed containers

### 6. Accidental release measures

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



Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Eliminate all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

**6.2 Environmental precautions**

Avoid leakage or spillage, if this can be done without danger. Do not let product enter drains.

**6.3 Metodi e materiali per il contenimento e per la bonifica**

Contain and collect spillage with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

**6.4 Reference to other sections**

For disposal see section 13.

**7. Handling and storage**

**7.1 Precautions for safe handling**

Use disposable gloves. Avoid contact with skin, clothes and eyes. Keep away from sources of ignition. Not smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place and protected from sunlight. Carefully close open containers and kept upright to prevent leakage.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. Exposure controls/personal protection**

**8.1 Control parameters**

**Components with workplace control parameters**

**Derived No Effect Level (DNEL)**

Application Area	Exposure routes	Health effect	Value
Workers	Inhalation	Acute systemic effects	1468 mg/m <sup>3</sup>
Workers	Inhalation	Acute local effects	1468 mg/m <sup>3</sup>
Workers	Skin contact	Long-term systemic effects	63mg/kg BW/d
Workers	Inhalation	Long-term systemic effects	734 mg/m <sup>3</sup>
Workers	Inhalation	Long-term local effects	734 mg/m <sup>3</sup>
Consumers	Inhalation	Acute local and systemic effects	734 mg/m <sup>3</sup>
Consumers	Skin contact	Long-term systemic effects	37mg/kg BW/d
Consumers	Inhalation	Long-term systemic effects	367 mg/m <sup>3</sup>
Consumers	Ingestion	Long-term systemic effects	4,5mg/kg BW/d
Consumers	Inhalation	Long-term local effects	367 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

Compartment	Value
Soil	0,24 mg/kg
Marine water	0,026 mg/l
Fresh water	0,26 mg/l
Marine sediment	0,125 mg/kg
Fresh water sediment	1,25 mg/kg

**8.2 Exposure controls**



<b>Appropriate engineering controls</b>	Restricted to professional users. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Skin protection</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>Body Protection</b>	impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Respiratory protection</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>Control of environmental exposure</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance Form:	liquid Color: colourless
Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available no data available
f) Initial boiling point and boiling range	76,5 - 77,5 °C
g) Flash point.	-2,99 °C - vaso chiuso
h) Evaporation rate	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	May form explosive dust-air mixture. j) Infiammabilità
j) Upper/lower flammability or explosive limits	
Upper explosion limit:	11,5 %(V)
Lower explosion limit:	2,2 %(V)
k) Vapour pressure	97,3 hPa at 20,0 °C
l) Vapour density	No data available
m) Relative density	0,90 g/cm <sup>3</sup> at 20 °C
n) Water solubility	soluble
o) Partition coefficient: noctanol/	



water	log Pow: 0,73
p) Auto-ignition temperature	427,0 °C °C
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

Surface tension 24,0 mN/m at 20,0 °C

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## 10. Stability and reactivity

10.1 Reactivity	no data available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	no data available
10.4 Conditions to avoid	Heat, flames and sparks.
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products	Other decomposition products - no data available. In the event of fire: see section 5

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## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity	LD50 Oral - Rat - 5.620 mg/kg LC50 Inhalation - Mouse - 2 h - 45.000 mg/m <sup>3</sup> LD50 Dermal - Rabbit - > 18.000 mg/kg
Skin corrosion/irritation	Skin - Rabbit Result: Mild skin irritation (OECD Test Guideline 404)

### Serious eye damage/eye irritation

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Respiratory or skin sensitisation	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	no data available
Aspiration hazard	no data available
Additional Information	RTECS: AH5425000 Inhalation of high concentrations may cause: Headache, Drowsiness, Dizziness, Vomiting, narcosis, anemia, Central nervous system depression Kidney - Irregularities - Based on Human Evidence

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## 12. Ecological information

### 12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 350,00 - 600,00 mg/l - 96 h



LC50 - Pimephales promelas (fathead minnow) - 220,00 - 250,00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 2.300,00 - 3.090,00 mg/l - 24 h
LC50 - Daphnia magna (Water flea) - 560 mg/l - 48 h
Toxicity to algae
EC50 - Algae - 4.300,00 mg/l - 24 h
EC50 - SELENASTRUM - 1.800,00 - 3.200,00 mg/l - 72 h

### 12.2 Persistence and degradability

Biodegradability Result: 79 % - Readily biodegradable (OECD Test Guideline 301D)

### 12.3 Bioaccumulative potential

Bioaccumulation - 3 d  
Bioconcentration factor (BCF): 30

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

no data available

## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## 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 IMDG Marine pollutant: no IATA: no

### 14.6 Special precautions for user

No data available

## 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment has been carried out

## 16. Other informations

### Full text of H-Statements referred to under sections 2 and 3.

EUH066 Repeated exposure may cause skin dryness or cracking.

Eye Irrit. Eye irritation

Flam. Liq. Flammable liquids



H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
STOT SE Specific target organ toxicity - single exposure

**Further information**

<b>Restrictions on use</b>	no data available
<b>Advice</b>	no data available
<b>Literary reference</b>	no data available

The above information is believed to be correct but does not purpose to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It doesn't represent any guarantee of the properties of the product. Biolife S.r.l. shall not be held liable for any damage resulting from handling or from contact with the above product.