

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

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

1.1. Product identifier

Ethylis acetas

Item No. 15050000

Registration no.

Registration no. 01-2119475103-46-XXXX

Substance / product identification

CAS-No. 141-78-6

EINECS-No. 205-500-4

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

Use of the substance/preparation

Manufacture of pharmaceutical products, Reagent for analyses

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG
Industriestrasse 35
9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of
person responsible
for this SDS sdb@haenseler.ch

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225

Eye Irrit. 2 H319

STOT SE 3 H336

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements ***

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

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.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** ethyl acetate

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.1. Substances****Molecular weight**

| | | |
|-------|-------|-------|
| Value | 88.11 | g/mol |
|-------|-------|-------|

Hazardous ingredients *****ethyl acetate**

| | | |
|--|-----------------------|------|
| CAS No. | 141-78-6 | |
| EINECS no. | 205-500-4 | |
| Registration no. | 01-2119475103-46-XXXX | |
| Concentration | >= 50 | % |
| Classification (Regulation (EC) No. 1272/2008) | | |
| | Flam. Liq. 2 | H225 |
| | Eye Irrit. 2 | H319 |
| | STOT SE 3 | H336 |

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Keep breathing passages free. Summon a doctor immediately.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. After contact with skin, wash immediately with plenty of water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Replaces Version: 5 / CH

Date revised: 11.07.2023

Print date: 11.07.23

After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately. Drink water in small gulps. Administer activated charcoal. Give a solution of sodium sulphate.

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

Dizziness, Narcosis, Nausea, Vomiting, Headache, Dizziness, Breathing stop

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

If swallowed, flush stomach

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Foam, Dry powder

Non suitable extinguishing media

not applicable

5.2. Special hazards arising from the substance or mixture

The product is combustible. Vapours heavier than air. Forms explosive mixture with air are possible. In case of combustion evolution of dangerous gases possible. Take precautionary measures against static charges.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Do not discharge into surface waters/groundwater. Suppress vapours with water spray jet. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Do not inhale vapours. Avoid contact with skin, eyes and clothing. Ensure supply of fresh air. Keep away sources of ignition. Keep away unprotected persons. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Explosive. Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal". Clean up affected area.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Work only in fume cupboards. Do not inhale substance. Avoid development of dusts/ billows/ steams.

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

Advice on protection against fire and explosion

Keep away from sources of ignition. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value 15 - 25 °C

Requirements for storage rooms and vessels

Store away from sources of ignition and heat.

Storage classes

| | | |
|-------------------------------------|---|------------------|
| Storage class according to TRGS 510 | 3 | Flammable liquid |
| Storage category (Switzerland) | 3 | Flammable liquid |

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition. Protect from warmth. Protect from light.

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values ***

ethyl acetate

| | | | | |
|--|------|-------------------|-----|--------|
| List | SUVA | | | |
| Type | MAK | | | |
| Value | 730 | mg/m ³ | 200 | ppm(V) |
| Short term exposure limit | 1460 | mg/m ³ | 400 | ppm(V) |
| Pregnancy group: S; Remarks: SSc; OAW Auge; INRS NIOSH | | | | |

Derived No/Minimal Effect Levels (DNEL/DMEL)

ethyl acetate

| | | | | |
|----------------------|--------------------------------|--|--|-------------------|
| Type of value | Derived No Effect Level (DNEL) | | | |
| Reference group | Worker | | | |
| Duration of exposure | Acute | | | |
| Route of exposure | inhalative | | | |
| Mode of action | Systemic effects | | | |
| Concentration | 1468 | | | mg/m ³ |

| | | | | |
|----------------------|--------------------------------|--|--|-------------------|
| Type of value | Derived No Effect Level (DNEL) | | | |
| Reference group | Worker | | | |
| Duration of exposure | Acute | | | |
| Route of exposure | inhalative | | | |
| Mode of action | Local effects | | | |
| Concentration | 1468 | | | mg/m ³ |

| | | | | |
|----------------------|--------------------------------|--|--|-------|
| Type of value | Derived No Effect Level (DNEL) | | | |
| Reference group | Worker | | | |
| Duration of exposure | Long term | | | |
| Route of exposure | dermal | | | |
| Mode of action | Systemic effects | | | |
| Concentration | 63 | | | mg/kg |

| | | | | |
|----------------------|--------------------------------|--|--|--|
| Type of value | Derived No Effect Level (DNEL) | | | |
| Reference group | Worker | | | |
| Duration of exposure | Long term | | | |
| Route of exposure | inhalative | | | |
| Mode of action | Systemic effects | | | |

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure inhalative

Mode of action Local effects

Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Acute

Route of exposure inhalative

Mode of action Systemic effects

Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Acute

Route of exposure inhalative

Mode of action Local effects

Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure dermal

Mode of action Systemic effects

Concentration 37 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 367 mg/m³

Reference group Consumer

Duration of exposure Long term

Route of exposure oral

Mode of action Systemic effects

Concentration 4.5 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure inhalative

Concentration 367 mg/kg

Predicted No Effect Concentration (PNEC)

ethyl acetate

Type of value PNEC

Type Freshwater

Concentration 0.26 mg/l

Type of value PNEC

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

| | | |
|---------------|-----------------|-------|
| Type | Saltwater | |
| Concentration | 0.026 | mg/l |
| Type of value | PNEC | |
| Type | Sediment | |
| Concentration | 1.25 | mg/kg |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0.125 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0.24 | mg/kg |

8.2. Exposure controls

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Preventative skin protection. Wash hands and face after work. Work only in fume cupboards. Do not inhale vapours.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Full mask, filter A

Hand protection

Butyl rubber gloves

Use Short-term hand contact

Appropriate Material Butyl rubber

Material thickness 0.7 mm

Breakthrough time > 120 min

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Eye protection

Safety glasses; Eye protection must comply with EN 166.

Body protection

Fire-resistant antistatic protective clothing

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state liquid

Colour colourless

Odour fruity

Melting point

Value -83 °C

Boiling point or initial boiling point and boiling range

Value 77.1 °C

Pressure 1013 hPa

Flammability

Not applicable

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

Upper and lower explosive limits

| | | |
|-----------------------|------|------|
| Lower explosion limit | 2.1 | %(V) |
| Upper explosion limit | 11.5 | %(V) |

Flash point

| | | |
|--------|------------|----|
| Value | -4 | °C |
| Method | closed cup | |

Ignition temperature

| | | |
|--------|-----------|----|
| Value | 460 | °C |
| Method | DIN 51794 | |

Decomposition temperature

| | |
|---------|--|
| Remarks | At normal pressure may be distilled without decomposition. |
|---------|--|

pH value

| | |
|---------|-------------------|
| Remarks | No data available |
|---------|-------------------|

Viscosity**dynamic**

| | | |
|-------------|------|-------|
| Value | 0.44 | mPa.s |
| Temperature | 20 | °C |

Vapour pressure

| | | |
|-------------|-----------------------|-----|
| Value | 98.4 | |
| Temperature | 20 | °C |
| Source | GESTIS-Stoffdatenbank | |
| Value | 160 | hPa |
| Temperature | 30 | °C |
| Source | GESTIS-Stoffdatenbank | |

Density and/or relative density

| | | |
|-------------|------|-------------------|
| Value | 0.90 | g/cm ³ |
| Temperature | 20 | °C |

Relative vapour density

| | |
|-------|------|
| Value | 3.04 |
|-------|------|

9.2. Other information**Odour threshold**

| | | | | |
|-------|-----|----|-------|-------------------|
| Value | 0.1 | to | 181.5 | mg/m ³ |
|-------|-----|----|-------|-------------------|

Evaporation rate

| | |
|---------|-------------------|
| Remarks | No data available |
|---------|-------------------|

Solubility in water

| | | |
|-------------|------|-----|
| Value | 85.3 | g/l |
| Temperature | 20 | °C |

Minimum ignition energy

| | | |
|-------------------------|------|----|
| Minimum ignition energy | 1.42 | MJ |
|-------------------------|------|----|

Auto-ignition temperature

| | | |
|-------|-----|----|
| Value | 460 | °C |
|-------|-----|----|

Explosive properties

| | |
|------------|----|
| evaluation | no |
|------------|----|

Oxidising properties

| | |
|---------|----------------|
| Remarks | Not applicable |
|---------|----------------|

SECTION 10: Stability and reactivity

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

10.1. Reactivity

Formation of explosive gas/air mixtures.

10.2. Chemical stability

Protect from light and atmospheric moisture.

10.4. Conditions to avoid

Protect from light. Protect from heat/overheating. Protect from exposure to air/oxygen.

10.5. Incompatible materials

Risk of ignition or formation of inflammable gases or vapours with: Fluorine, chlorosulphuric acid, Strong oxidising agents, Risk of explosion with: lithium tetrahydroaluminate, Alkaline metals, Reactions with strong acids. Bases

10.6. Hazardous decomposition products

No data available.

Other information

sensitive to air. Vapours and gases can form an explosive mixture with air.

SECTION 11: Toxicological information *****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****ethyl acetate**

| | | | |
|---------|-------|------|-------|
| Species | rat | | |
| LD50 | | 5620 | mg/kg |
| Source | RTECS | | |

Acute dermal toxicity (Components)**ethyl acetate**

| | | | |
|---------|--------|-------|-------|
| Species | rabbit | | |
| | > | 18000 | mg/kg |

Skin corrosion/irritation (Components)**ethyl acetate**

| | |
|---------|--------------------------------|
| Species | rabbit |
| Remarks | No effect of irritation known. |

Serious eye damage/irritation (Components)**ethyl acetate**

| | |
|------------|-------------------|
| evaluation | strongly irritant |
|------------|-------------------|

Sensitization (Components)**ethyl acetate**

| | |
|------------|-----------------|
| Species | guinea pig |
| evaluation | non-sensitizing |
| Method | OECD 406 |

Subacute, subchronic, chronic toxicity

| | |
|---------|--------------------|
| Remarks | No data available. |
|---------|--------------------|

Mutagenicity (Components)**ethyl acetate**

| | |
|------------|-----------------------------------|
| Species | Salmonella typhimurium |
| evaluation | No mutagenicity in the Ames-test. |
| Method | OECD 471 |
| Remarks | negative |

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

ethyl acetate

Species mammal, species unspecified
Remarks negative

Reproduction toxicity (Components)**ethyl acetate**

Remarks No data available.

Carcinogenicity (Components)**ethyl acetate**

Remarks No data available.

Specific Target Organ Toxicity (STOT) (Components)**ethyl acetate**

Single exposure
evaluation Causes damage to organs.
Route of exposure inhalative
Organs: Nervous system

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

Experience in practice

After Swallowing: Irritates the mucous membrane. May lead to nausea, headache, drowsiness and dizziness. Inhalation of the vapours causes irritation of the respiratory tract and mucous membrane, headaches, nausea, giddiness, vomiting. When inhaled in larger quantities, the solvent vapours cause a narcotic effect. Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. Has a degreasing effect on the skin.

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)****ethyl acetate**

Species Fathead minnow (*Pimephales promelas*)
230 mg/l
Duration of exposure 96 h

Daphnia toxicity (Components)**ethyl acetate**

Species *Daphnia magna*
EC50 717 mg/l
Duration of exposure 48 h

ethyl acetate

Species *Daphnia magna*
NOEC 2.4 mg/l
Duration of exposure 21 d
Method OECD 211

Algae toxicity (Components)**ethyl acetate**

Species *Desmodesmus subspicatus*

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

| | | | |
|----------------------|------|---|------|
| Duration of exposure | 3300 | | mg/l |
| | 48 | h | |

ethyl acetate

| | | | |
|----------------------|-------------------------|---|------|
| Species | Desmodesmus subspicatus | | |
| NOEC | 100 | | mg/l |
| Duration of exposure | 72 | h | |
| Method | OECD 201 | | |

Bacteria toxicity (Components)**ethyl acetate**

| | | | |
|----------------------|--------------------|---|------|
| Species | Pseudomonas putida | | |
| | 2900 | | mg/l |
| Duration of exposure | 16 | h | |

12.2. Persistence and degradability**General information**

Not applicable

Physico-chemical eliminability (Components)**ethyl acetate**

Remarks No data available.

Biodegradability (Components)**ethyl acetate**

| | | | |
|-----------------------------|------------------------------------|---|---|
| Value | 100 | | % |
| Duration of test evaluation | 28 | d | |
| Method | Readily biodegradable OECD 301D | | |

ethyl acetate

| | | | |
|-----------------------------|-------------------------------|---|---|
| Value | appr. 69 | | % |
| Duration of test evaluation | 20 | d | |
| Source | Readily biodegradable ECHA | | |
| Source | aerob | | |

Ready degradability (Components)**ethyl acetate****Chemical oxygen demand (COD) (Components)****ethyl acetate**

| | | | |
|--------|---------------------------------------|--|------|
| Value | 1820 | | mg/g |
| Source | Theoretischer Sauerstoffbedarf (ThSB) | | |

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****ethyl acetate**

| | | | |
|---------|--------------|--|--|
| log Pow | 0.73 | | |
| Method | experimental | | |

Bioconcentration factor (BCF) (Components)**ethyl acetate**

| | | | |
|----------------------|------------------------------|----|--|
| BCF | 30 | | |
| Duration of exposure | 3 | d | |
| Temperature | 22.5 | °C | |
| Species | golden orfe (Leuciscus idus) | | |
| Source | melanotus | | |

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

12.4. Mobility in soil**General information**

For this subsection there is no ecotoxicological data available on the product as such.

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

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

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

12.7. Other adverse effects**General information / ecology**

Toxic for aquatic organisms. Do not allow it to reach ground water, water bodies or sewage system.




SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|---|--|---|
| Tunnel restriction code | D/E | | |
| 14.1. UN number | 1173 | 1173 | 1173 |
| 14.2. UN proper shipping name | ETHYL ACETATE | ETHYL ACETATE | ETHYL ACETATE |
| 14.3. Transport hazard class(es) | 3 | 3 | 3 |
| Label |  |  |  |
| 14.4. Packing group | II | II | II |
| Limited Quantity | 1 I | | |
| Transport category | 2 | | |

SECTION 15: Regulatory information ***

Trade name: Ethylis acetas

Substance number: 150500

Version: 6 / CH

Date revised: 11.07.2023

Replaces Version: 5 / CH

Print date: 11.07.23

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Water Hazard Class (Germany) *****

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

National regulations Switzerland

SFOPH T no. 1157

15.2. Chemical safety assessment

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

SECTION 16: Other information**Hazard statements listed in Chapter 3**

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

CLP categories listed in Chapter 3

| | |
|--------------|--|
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquid, Category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.