

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

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: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

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.

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.

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 \geq 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.

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

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

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.

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**

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

Value 15 - 25 °C

Requirements for storage rooms and vessels

Store away from sources of ignition and heat.

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	1400	mg/m ³	400	ppm(V)
Short term exposure limit	2800	mg/m ³	800	ppm(V)
Pregnancy group: S; Status: 2017; Remarks: SSc; OAWKT HU & AugeKT HU; 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			
Concentration	734			mg/m ³

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/m ³

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

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/m ³

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/m ³

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/m ³

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	
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	

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

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

necessary

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

Form	liquid
Colour	colourless
Odour	fruity
Odour threshold	
Value	0.1 to 181.5 mg/m ³
pH value	
Remarks	No data available
Melting point	
Value	-83 °C
Initial boiling point and boiling range	
Value	77 °C
Flash point	
Value	-4 °C
Method	DIN 51758
Evaporation rate	
Remarks	No data available
Flammability (solid, gas)	
Not applicable	

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

Upper/lower flammability or explosive limits

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

Vapour pressure

Value	97	hPa
Temperature	20	°C

Vapour density

Value	3.04
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Density

Value	0.90	g/cm ³
Temperature	20	°C

Solubility in water

Value	85.3	g/l
Temperature	20	°C

Partition coefficient: n-octanol/water

log Pow	0.73
Method	experimental

Ignition temperature

Value	460	°C
Method	DIN 51794	

Minimum ignition energy

Minimum ignition energy	1.42	MJ
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Auto-ignition temperature

Value	460	°C
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Decomposition temperature

Remarks	At normal pressure may be distilled without decomposition.
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Viscosity

dynamic		
Value	0.44	mPa.s
Temperature	20	°C

Explosive properties

evaluation	no
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Oxidising properties

Remarks	Not applicable
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SECTION 10: Stability and reactivity**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 tetrahydridoaluminate, Alkaline metals, Reactions with strong acids. Bases

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

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 toxicological effects****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

Serious eye damage/irritation

Remarks	Irritates the eyes.
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Sensitization

Species	guinea pig
Remarks	negative
Remarks	A sensitization is possible for persons who are sensitive.

Sensitization (Components)**Ethyl acetate**

Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406

Subacute, subchronic, chronic toxicity

Remarks	No data available.
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Mutagenicity

Species	Salmonella typhimurium
Method	Ames test
Remarks	negative
Species	mammal, species unspecified
Method	in vitro
Remarks	negative

Reproductive toxicity

Remarks	No data available.
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Carcinogenicity

Remarks	No data available.
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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

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	230		mg/l
Duration of exposure	96	h	
Remarks	Toxic for fishes.		
Source	IUCLID		

Fish toxicity (Components)

Ethyl acetate

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

Daphnia toxicity

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

Daphnia toxicity (Components)

Ethyl acetate

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

Algae toxicity

Species	Desmodesmus subspicatus		
IC50	3300		mg/l
Duration of exposure	48	h	

Algae toxicity (Components)

Ethyl acetate

Species	Desmodesmus subspicatus		
	3300		mg/l
Duration of exposure	48	h	

Bacteria toxicity

Species	Pseudomonas putida		
EC10	2900		mg/l
Duration of exposure	16	h	
Source	IUCLID		

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

Biodegradability

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

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

Biodegradability (Components)**Ethyl acetate**

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

Chemical oxygen demand (COD) (Components)**Ethyl acetate**

Value	1820	mg/g
Source	Theoretischer Sauerstoffbedarf (ThSB)	

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

log Pow	0.73
Method	experimental

Octanol/water partition coefficient (log Pow) (Components)**Ethyl acetate**

log Pow	0.73
Method	experimental

12.4. Mobility in soil**General information**

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

12.6. 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

Trade name: Ethylis acetas




Substance number: 150500

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

	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

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

Water Hazard Class (Germany)

Water Hazard Class WGK 1
(Germany)

Remarks Classification according to Annex 4 VwVwS

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.

Trade name: Ethylis acetas

Substance number: 150500

Version: 5 / CH

Replaces Version: 4 / CH

Date revised: 17.12.2018

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