

Trade name: Ethanolum anhydricum non potabile

Substance number: 023500

Version: 4 / CH

Date revised: 04.09.2024

Replaces Version: 3 / CH

Print date: 04.09.24

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

1.1. Product identifier

Ethanolum anhydricum non potabile

Item No. 02350000

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 sdb@haenseler.ch

person responsible

for this SDS

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

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 ***

H225

Highly flammable liquid and vapour.

EUH018

In use may form flammable/explosive vapour-air mixture.

Precautionary statements ***

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243

Take action to prevent static discharges.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P403+P233

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

P501.3

Disposal in compliance with local and national regulations.

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2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture. Repeated exposure may cause skin dryness or cracking. Irritating to eyes, respiratory system and skin.

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 ***

3.2. Mixtures

Chemical characterization

Alcoholic solution

Further ingredients ***

ethanol

CAS No.	64-17-5			
EINECS no.	200-578-6			
Registration no.	01-2119457610-43-0098			
Concentration		>=	95	%
Advice: [4]				
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2		H225	

Note

[4] Voluntary information

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment. If the patient is likely to become unconscious, place and transport in stable sideways position.

After skin contact

Wash immediately with plenty of water for several minutes. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

After ingestion

Do not induce vomiting. Summon a doctor immediately. Let plenty of water be drunk in small gulps. Never give anything by mouth to an unconscious person. If individual is drowsy or unconscious place in recovery position (on left side, with head down).

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

Headache, Dizziness, Unconsciousness, Nausea

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

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Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureIn case of fires, hazardous combustion gases are formed; Carbon monoxide (CO); Carbon dioxide (CO₂)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet.

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

Wear protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Keep away sources of ignition.

6.2. Environmental precautions

Dilute with lot of water. Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Ensure adequate ventilation.

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

Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in a cool place.

Hints on storage assembly

Not required.

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. Keep container tightly closed, cool and dry. Store only in the open air or in explosion-proof rooms. Product is hygroscopic.

SECTION 8: Exposure controls/personal protection *****8.1. Control parameters****Exposure limit values *******ethanol**

List	SUVA
Type	MAK

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Value	960	mg/m ³	500	ppm(V)
Short term exposure limit	1920	mg/m ³	1000	ppm(V)

Pregnancy group: S; Remarks: SSc; Formal; INRS NIOSH

Derived No/Minimal Effect Levels (DNEL/DMEL)**ethanol**

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	343			mg/kg/d

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	950			mg/m ³

Predicted No Effect Concentration (PNEC)**ethanol**

Type of value	PNEC			
Type	Freshwater			
Conditions	Long term			
Concentration	0.96			mg/l

Type of value	PNEC			
Type	Saltwater			
Concentration	0.79			mg/l

Type of value	PNEC			
Type	Freshwater sediment			
Concentration	3.6			mg/kg

Type of value	PNEC			
Type	Marine sediment			
Concentration	2.9			mg/kg

Type of value	PNEC			
Type	Freshwater			
Conditions	Intermittend			
Concentration	2.75			mg/l

Type of value	PNEC			
Type	Sewage treatment plant (STP)			
Concentration	580			mg/l

8.2. Exposure controls**General protective and hygiene measures**

Wash hands before breaks and after work.

Respiratory protection

Not necessary.

Hand protection

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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.

Appropriate Material	Butyl rubber - Butyl
Material thickness	0.5 mm
Breakthrough time	> 8 h
Appropriate Material	Fluoro carbon rubber - FKM
Material thickness	0.4 mm
Breakthrough time	> 8 h

Eye protection

Tightly fitting safety glasses

Body protection

Fire-resistant protective clothing

SECTION 9: Physical and chemical properties *****9.1. Information on basic physical and chemical properties**

Physical state	liquid
Colour	colourless
Odour	alcohol-like
Freezing point	
Value	-117 °C
Boiling point or initial boiling point and boiling range	
Value	78 °C
Flammability	Not ignitable
Upper and lower explosive limits	
Lower explosion limit	3.1 to 27.7 % (V)
Lower explosion limit	59 to 532 g/m ³
Flash point	
Value	12 to 13 °C
Ignition temperature	
Value	425 °C
Decomposition temperature	
Remarks	No decomposition if used as prescribed.
Viscosity	
dynamic	
Value	1.2 mPa.s
kinematic	
Value	1.52 mm ² /s
Vapour pressure	
Value	59 hPa
Temperature	20 °C
Density and/or relative density	
Value	0.790 g/cm ³
Temperature	20 °C
Relative vapour density	
Value	1.6

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9.2. Other information**Solubility in water**

Remarks Completely miscible

Oxidising properties ***

evaluation Not oxidising

Other information

Forms explosive mixture with air are possible.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Risk of ignition or formation of inflammable gases or vapours with: Air

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

No decomposition if stored and applied as directed.

10.5. Incompatible materials

Spontaneous reactions with alkali metals. Reactions with earth alkali metals. Reactions with strong acids. Reactions with strong oxidising agents.

10.6. Hazardous decomposition products

None known

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

Species	rat		
LD50		7060	mg/kg
Source	Toxicology and Applied Pharmacology. Vol. 16, Pg. 718, 1970.		

ethanol

Species	rat		
LD50		10470	mg/kg

Acute dermal toxicity (Components)**ethanol**

Species	rabbit		
LD50		15800	mg/kg

ethanol

NOAEL		8232	mg/kg
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Acute inhalative toxicity (Components)**ethanol**

Species	rat		
LC50		30000	mg/m ³
Duration of exposure		4	h
Administration/Form	Vapors		

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Skin corrosion/irritation (Components)

ethanol

evaluation non-irritant

Serious eye damage/irritation (Components)

ethanol

evaluation irritant

Sensitization (Components)

ethanol

evaluation non-sensitizing

Mutagenicity (Components)

ethanol

evaluation No mutagenicity in the Ames-test.

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.

SECTION 12: Ecological information *****12.1. Toxicity****General information**

There is no data available on the product apart from the information given in this subsection.

12.2. Persistence and degradability**General information**

There is no data available on the product apart from the information given in this subsection.

Biodegradability

Remarks The product is biodegradable.

Biodegradability (Components)

ethanol

evaluation Readily biodegradable

Chemical oxygen demand (COD) (Components)

ethanol

Value 0.93 to 1.67 mg/g

12.3. Bioaccumulative potential**General information**

There is no data available on the product apart from the information given in this subsection.

Octanol/water partition coefficient (log Pow) (Components)

ethanol

log Pow -0.3

Bioconcentration factor (BCF) (Components)

ethanol

BCF 0.66

12.4. Mobility in soil**General information**

There is no data available on the product apart from the information given in this subsection.

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12.5. Results of PBT and vPvB assessment

General information

There is no data available on the product apart from the information given in this subsection.

Results of PBT and vPvB assessment ***

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

Results of PBT and vPvB assessment (Ingredients)

ethanol

The Substance doesn't meets PBT/vPvB-criterions

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

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. The product is easily volatile.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 20 01 13* solvents

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1170	1170	1170
14.2. UN proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION
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 (Germany) WGK 1

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225 Highly flammable liquid and vapour.

CLP categories listed in Chapter 3

Flam. Liq. 2 Flammable liquid, Category 2

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.