

Trade name: Ethanolum 96% non potabile ARO

Substance number: 021000

Version: 4 / CH

Date revised: 18.09.2023

Replaces Version: 3 / CH

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

1.1. Product identifier

Ethanolum 96% non potabile ARO

Item No. 02100000

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

Use of the substance/preparation

Industrial solvent

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.

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

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P403+P233 with water [or shower].
 P501.3 Store in a well-ventilated place. Keep container tightly closed.
 Disposal in compliance with local and national regulations.

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****Chemical characterization**

Mixture of the following listed substances with harmless admixtures.

Further ingredients *****ethanol**

CAS No.	64-17-5				
EINECS no.	200-578-6				
Concentration		>=	90		%
Advice: [4]					
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2			H225	

water

CAS No.	7732-18-5				
EINECS no.	231-791-2				
Concentration		>=	1	<	10 %
Advice: [4]					

Diethylphthalate

CAS No.	84-66-2				
EINECS no.	201-550-6				
Concentration		>=	1	<	10 %
Advice: [4]					

Rosemary, ext.

CAS No.	84604-14-8				
EINECS no.	283-291-9				
Concentration		<	1		%
Advice: [4]					
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 3			H226	
	Asp. Tox. 1			H304	
	Skin Irrit. 2			H315	
	Skin Sens. 1B			H317	
	Eye Irrit. 2			H319	
	STOT SE 2			H371	Nervous system; Route of exposure: oral
	Aquatic Chronic 2			H411	Nervous system; Route of exposure: oral

Note

[4] Voluntary information

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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.

After skin contact

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

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

After ingestion

Do not induce vomiting. In the event of symptoms take medical treatment.

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.

Non suitable extinguishing media

Full water jet

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.

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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, 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			
Value	960	mg/m ³	500	ppm(V)
Short term exposure limit	1920	mg/m ³	1000	ppm(V)
Pregnancy group: S; Remarks: SSs; Formal; INRS NIOSH				

Diethylphthalate

List	SUVA		
Type	MAK		
Value	5	mg/m ³	
Remarks: OAWKT			

Derived No/Minimal Effect Levels (DNEL/DMEL)

Diethylphthalate

Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10.6	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	15	mg/kg/d

8.2. Exposure controls

Exposure controls

See Section 7. No measures exceeding the ones mentioned necessary.

General protective and hygiene measures

Wash hands before breaks and after work.

Respiratory protection

Provide good ventilation of working area (local exhaust ventilation if necessary). At intensive and longer

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exposition use self-contained breathing apparatus.

Hand protection

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
Appropriate Material	neoprene
Material thickness	0.5 mm
Breakthrough time	appr. 2 h
Not suitable	
Appropriate Material	Natural Latex
Not suitable	
Appropriate Material	nitrile rubber - NBR
Not suitable	
Appropriate Material	PVC

Eye protection

Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166. Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166.

Body protection

Solvent-resistant protective clothing; Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

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

Physical state	liquid
Colour	colourless, clear
Odour	Alcohol
Freezing point	
Value	-114 °C
Boiling point or initial boiling point and boiling range	
Value	78 °C
Upper and lower explosive limits	
Lower explosion limit	3.1 %(V)
Upper explosion limit	27.7 %(V)
Flash point	
Value	12 to 13 °C
Method	closed cup
Viscosity	
dynamic	
Value	1.2 mPa.s
kinematic	
Value	1.52 mm ² /s
Partition coefficient n-octanol/water (log value)	
log Pow	-0.3

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Vapour pressure

Value	58		hPa
Temperature	20	°C	

Density and/or relative density

Value	appr. 0.81		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
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Auto-ignition temperature

Value	400	°C
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Explosive properties

evaluation	yes
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Oxidising properties

evaluation	Not oxidising
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Solvent content

Value	appr. 93	%
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Other information

Forms explosive mixture with air are possible.

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

Exothermic reaction with: Strong oxidising agents, strong reducing agents, Acids, Alkaline metals, peroxides, Incompatible with acid chlorides and acid anhydrides.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Explosion hazard with: Alkali metals, conc. sulphuric acid. Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

Heat. Sparks. Flames. Vapours can form an explosive mixture with air.

10.5. Incompatible materials

Spontaneous reactions with alkali metals. Reactions with earth alkali metals. Reactions with strong acids. Strong oxidising agents, Formation of explosive gas/air mixtures.

10.6. Hazardous decomposition products

Flammable gases/vapours

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

ATE	> 10'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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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

Diethylphthalate

Species	rat		
LD50	>	2000	mg/kg

Diethylphthalate

Species	rat		
NOAEL		150	mg/kg

Acute dermal toxicity (Components)**ethanol**

Species	rabbit		
LD50		15800	mg/kg

ethanol

NOAEL		8232	mg/kg
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Diethylphthalate

Species	rat		
LD50	>	11100	ppm(m)

Acute inhalative toxicity (Components)**ethanol**

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

Diethylphthalate

Species	rat		
LC0	>	511	
Duration of exposure		6	h

Skin corrosion/irritation (Components)**ethanol**

evaluation	non-irritant
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Diethylphthalate

Species	rabbit
evaluation	non-irritant

Serious eye damage/irritation (Components)**ethanol**

evaluation	irritant
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Diethylphthalate

evaluation	irritant
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Sensitization (Components)**ethanol**

evaluation	non-sensitizing
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Diethylphthalate

Species	guinea pig
evaluation	non-sensitizing

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Mutagenicity (Components)**ethanol**

evaluation No mutagenicity in the Ames-test.

Diethylphthalate

Remarks None

Reproduction toxicity (Components)**Diethylphthalate**

evaluation No negative effects

Carcinogenicity (Components)**Diethylphthalate**

evaluation No negative effects

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

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information *****12.2. Persistence and degradability****Biodegradability (Components)****ethanol**

evaluation Readily biodegradable

Chemical oxygen demand (COD) (Components)**ethanol**

Value 0.93 to 1.67 mg/g

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

log Pow -0.3

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

log Pow -0.3

Bioconcentration factor (BCF) (Components)**ethanol**

BCF 0.66

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

The product contains no PBT substances
The product contains no vPvB substances.

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

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods




Disposal recommendations for the product

EWC waste code Should not be released into the sanitary sewer system.
 EWC waste code Should not be released into the sanitary sewer system.
 Disposal in compliance with local and national regulations.
 EWC waste code 20 01 13* solvents
 Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

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	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

VOC

VOC (CH) 93.1 %

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VOC (EU) 93.1 %

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.