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

1.1. Product identifier

Ethanolum 96% non potabile

Item No. 02050000

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

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.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378.1	In case of fire: Use water sprayjet, carbon dioxide, alcohol-resistant foam or dry powder for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.

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.

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
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.

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.). Summon a doctor immediately.

After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

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

Headache, Dizziness, 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

5.2. Special hazards arising from the substance or mixture

In 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

Use personal protective clothing. Remove persons to safety. 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. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

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

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 tightly closed in a dry and cool place.

Further information on storage conditions

Product is hygroscopic. Store only in the open air or in explosion-proof rooms.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Ethanol

List	SUVA			
Type	MAK			
Value	960	mg/m³	500	ppm(V)
Short term exposure limit	1920	mg/m³	1000	ppm(V)

Pregnancy group: S; Status: 2017; Remarks: SSc; OAW, FormalKT HU; INRS, NIOSH

8.2. Exposure controls

General protective and hygiene measures

Wash hands before breaks and after work.

Respiratory protection

Not necessary, but do not inhale vapours.

Hand protection

impermeable gloves

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

Form liquid
Colour colourless
Odour characteristic

Melting point

Value	-117	°C
Source	Safety Data Sheet Supplier	

Initial boiling point and boiling range

Value	78	°C
Source	Safety Data Sheet Supplier	

Flash point

Value	13	°C
Source	Safety Data Sheet Supplier	

Upper/lower flammability or explosive limits

Lower explosion limit	3.5	to	15.0	%(V)

Vapour pressure

Value	5.9	kPa
Source	Safety Data Sheet Supplier	

Density

Value	0.807	g/cm³
Source	Safety Data Sheet Supplier	

Solubility in water

Remarks	Completely miscible

Ignition temperature

Value	425	°C
Source	Safety Data Sheet Supplier	

Decomposition temperature

Remarks	No decomposition if used as prescribed.

Viscosity

dynamic

Value	1.2	mPa.s
Source	Safety Data Sheet Supplier	

kinematic

Value	1.73	mm²/s

9.2. Other information

Solvent content

Value	94	%
Source	Safety Data Sheet Supplier	

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 lister under section 10.5.

10.4. Conditions to avoid

Keep away from sources of heat and ignition.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

In the event of fire the following can be released: Carbon monoxide and carbon dioxide, Hazardous determin decomposition products: Flammable gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Acute inhalative toxicity (Components)

Ethanol

Species	rat		
LC50	30000		mg/m³
Duration of exposure	4	h	
Administration/Form	Vapors		

Skin corrosion/irritation (Components)

Ethanol

evaluation	non-irritant

Serious eye damage/irritation (Components)

Ethanol

evaluation	irritant

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 (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.

12.4. Mobility in soil

General information

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

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.

Evaluation of persistance and bioaccumulation potential (Components)

Ethanol

The Substance doesn't meets PBT/vPvB-criterions

12.6. 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

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

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, Methanol)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol, Methanol)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol, Methanol)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 l		
Transport category	2		
14.5. Environmental hazards		no	

SECTION 15: Regulatory information

SECTION 16: Other information

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.