

Trade name: Ethanolum 96% den. mit 5% IPA

Substance number: 026190

Version: 4 / CH

Date revised: 31.03.2020

Replaces Version: 3 / CH

Print date: 31.03.20

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

1.1. Product identifier

Ethanolum 96% den. mit 5% IPA

Item No. 02619000

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 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.

2.3. Other hazards

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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

Hazardous ingredients ***

Propan-2-ol

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-21194557558-25-XXXX				
Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2			H225	
	Eye Irrit. 2			H319	
	STOT SE 3			H336	

Further ingredients ***

Ethanol

CAS No.	64-17-5				
EINECS no.	200-578-6				
Concentration			>=	50	%
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]					

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.). Take medical treatment.

After ingestion

Do not induce vomiting. Summon a doctor immediately.

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

Headache, Dizziness, Unconsciousness, Nausea

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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

Vapours heavier than air. Can build mixtures of gas and air which are capable of explosion. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full protective suit.

Other information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Keep away unprotected persons. Ensure adequate ventilation. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/aerosol. Keep people away and stay on the upwind side.

6.2. Environmental precautions

Dilute with lot of water. Do not discharge into the drains/surface waters/groundwater. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Ensure adequate ventilation. Don't rinse away with water. When picked up, treat material as prescribed under Section 13 "Disposal".

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). Avoid inhaling dusts/billows/ steams. Provide good room ventilation even at ground level (vapours are heavier than air). Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Use solvent-resistant equipment. Smoking, eating and drinking should be prohibited in application area.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Procure extinguisher. Vapours heavier than air. Risk of explosion if the liquid enters the drains. Vapours can form an explosive mixture with air. Use explosion-proof equipment/fittings and non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool place. Use aluminium containers.

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Hints on storage assembly

Do not store together with foodstuffs. Do not store with oxidizing agents. Do not store together with animal feedstocks. Do not store with acids.

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. Protect from heat and direct sunlight.

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

Propan-2-ol

List	SUVA			
Type	MAK			
Value	500	mg/m ³	200	ppm(V)
Short term exposure limit	1000	mg/m ³	400	ppm(V)

Pregnancy group: S; Status: 2017; Remarks: B SSc; Auge & OAW, ZNS, LeberKT AN; INRS, NIOSH

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

Wash hands before breaks and after work. Observe the usual precautions for handling chemicals. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Keep away from food-stuffs, beverages and feed-stocks.

Respiratory protection

Full mask, filter A

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

Eye protection

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Safety glasses with side protection shield

Body protection

Solvent-resistant protective clothing

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

Form	liquid, clear			
Colour	colourless			
Odour	alcohol-like			
Odour threshold				
Value	178			mg/m ³
pH value				
Remarks	neutral			
Freezing point				
Value	-114			°C
Initial boiling point and boiling range				
Value	78			°C
Flash point				
Value	12	to	13	°C
Evaporation rate (ether = 1) :				
Reference substance	Diethylether = 1			
Value	8			
Upper/lower flammability or explosive limits				
Lower explosion limit	3.5	to	15.0	%(V)
Vapour pressure				
Value	59			hPa
Temperature	20	°C		
Density				
Value	0.806			g/cm ³
Temperature	20	°C		
Solubility in water				
Remarks	Completely miscible			
Partition coefficient: n-octanol/water				
log Pow	-0.3			
Auto-ignition temperature				
Value	425			°C
Decomposition temperature				
Value	>=	700		°C
Viscosity				
dynamic				
Value	1.2			mPa.s
Temperature	20	°C		
kinematic				
Value	1.52			mm ² /s
Temperature	20	°C		
Oxidising properties				

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Remarks Not applicable

9.2. Other information**Solvent content**

Value 94.3 %

Other information ***

Forms explosive mixture with air are possible.

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

Reactions with strong oxidising agents. strong reducing agents, Reactions with acids. Incompatible with acid chlorides and acid anhydrides. Alkaline metals, Peroxides

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

To avoid thermal decomposition, do not overheat. Flames. Sparks

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

Carbon monoxide and carbon dioxide

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

Propan-2-ol

Species	rat	
LD50	5840	mg/kg
Method	OECD 401	

Acute dermal toxicity (Components)**Ethanol**

Species	rabbit	
LD50	15800	mg/kg

Propan-2-ol

Species	rabbit	
LD50	13900	mg/kg
Method	OECD 402	

Acute inhalative toxicity (Components)

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Ethanol

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

Propan-2-ol

Species	rat		
LC50	>	25	mg/l
Duration of exposure	6	h	
Administration/Form	Vapors		
Method	OECD 403		

Skin corrosion/irritation

evaluation non-irritant

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

evaluation non-irritant

Serious eye damage/irritation

Remarks Irritates the eyes.

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

evaluation irritant

Sensitization

Remarks No sensitisation effect known.

Sensitization (Components)**Propan-2-ol**

Route of exposure	dermal
Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406

Mutagenicity

Remarks negative

Reproduction toxicity (Components)**Propan-2-ol**

Route of exposure	oral	
Species	rat	
Dose	853	mg/kg
Duration of exposure	1	d
evaluation	No negative effects	
Method	OECD 415	

Carcinogenicity (Components)**Propan-2-ol**

Route of exposure	inhalative		
Species	mouse		
Dose	<=	5000	ppm(m)
Duration of exposure	5	d	
evaluation	No negative effects		
Method	OECD 451		

SECTION 12: Ecological information

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12.1. Toxicity

General information

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

Fish toxicity (Components)

Propan-2-ol

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	9640		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)

Propan-2-ol

Species	Daphnia magna		
LC50	9714		mg/l
Duration of exposure	24	h	
Method	OECD 202		

Algae toxicity (Components)

Propan-2-ol

Species	Scenedesmus subspicatus		
EC50	> 100		mg/l
Duration of exposure	72	h	

Bacteria toxicity (Components)

Propan-2-ol

EC50	> 100		mg/l
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12.2. Persistence and degradability

General information

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

Biodegradability

Value	94		%
Remarks	The product is biodegradable.		

Biodegradability (Components)

Propan-2-ol

Value	53		%
Duration of test evaluation	5	d	
	Readily biodegradable		

Chemical oxygen demand (COD) (Components)

Ethanol

Value	0.93	to	1.67	mg/g
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12.3. Bioaccumulative potential

General information

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

Partition coefficient: n-octanol/water

log Pow	-0.3
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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.

Evaluation of persistence and bioaccumulation potential (Components)

Ethanol

The Substance doesn't meets PBT/vPvB-criterions

12.6. Other adverse effects

General information / ecology

The product is easily volatile. 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

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	1170	1170	1170
14.2. UN proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol)
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

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Water Hazard Class (Germany) ***

Water Hazard Class (Germany) WGK 1

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

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.