

Trade name: Aether/Ethanolum 1:1

Substance number: 150620

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

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

1.1. Product identifier

Aether/Ethanolum 1:1

Item No. 15062000

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. 1 H224

Acute Tox. 4 H302

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

H224 Extremely flammable liquid and vapour.

H302 Harmful if swallowed.

H336 May cause drowsiness or dizziness.

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.

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

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Diethyl ether

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Diethyl ether**

CAS No.	60-29-7			
EINECS no.	200-467-2			
Registration no.	01-2119535785-29-XXXX			
Concentration	>= 25	<	50	%
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 1		H224	
	Acute Tox. 4		H302	
	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]				

Bornan-2-one

CAS No.	76-22-2			
EINECS no.	200-945-0			
Registration no.	01-2119966156-31-XXXX			
Concentration		<	1	%
Advice: [4]				
Classification (Regulation (EC) No. 1272/2008)	Flam. Sol. 2		H228	
	Acute Tox. 4		H302	
	Acute Tox. 4		H332	
	STOT SE 2		H371	

Lungs; Route of exposure:
inhalative**Note**

[4] Voluntary information

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

Remove contaminated clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. Keep breathing passages free. Irregular breathing/no breathing: artificial respiration.

After skin contact

After contact with skin, wash immediately with plenty of water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an Occulist.

After ingestion

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, Dry powder

5.2. Special hazards arising from the substance or mixture

The product is combustible. Forms explosive mixture with air are possible. In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Ensure supply of fresh air.

6.2. Environmental precautions

Explosive. Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations. Clean up affected area.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Work only in fume cupboards. Ensure adequate ventilation. Avoid inhaling dusts/ billows/ steams. Avoid contact with skin, eyes and clothing. Observe the usual precautions for handling chemicals.

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

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Recommended storage temperature

Value 15 25 °C

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Protect from light. Protect from exposure to air/oxygen. Keep away from sources of ignition. Do not keep at temperatures above 25 °C.

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

List	SUVA			
Type	MAK			
Value	1200	mg/m ³	400	ppm(V)
Short term exposure limit	1200	mg/m ³	400	ppm(V)

Status: 2017; Remarks: ZNS, Geruch, OAWKT HU; NIOSH

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

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

Wash hands and face after work. Preventative skin protection. Remove contaminated, soaked clothing immediately and dispose of safely.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter AX

Hand protection

Appropriate Material	viton		
Material thickness	0.70	mm	
Breakthrough time	> 30	min	

Eye protection

necessary

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Initial boiling point and boiling range**

Value	34.6	to	78	°C
Pressure	101.3	kPa		
Source	Merck Index			

Flash point

Value	-40	to	13	°C
Source	Merck Index			

Vapour pressure

Value	5.9	to	58.7	kPa
Temperature	20	°C		
Source	Merck Index			

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Density

Value	0.71	to	0.81	g/cm ³
Temperature	20	°C		
Source	Merck Index			

Efflux time

Value	10	s
Method	DIN 53211 4 mm	
Source	Estimated value	

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

Protect from light. Protect from exposure to air/oxygen (peroxide formation). Protect from heat/overheating.

10.5. Incompatible materials

Strong oxidising agents, Halogens, Ozone (danger of explosion!), Peroxides, Formation of explosive gas/air mixtures. Reactions with oxygen.

10.6. Hazardous decomposition products**Other information**

Vapours and gases can form an explosive mixture with air.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	1'071.42	mg/kg
	09	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Skin corrosion/irritation

Reference substance	Diethyl ether
Species	rabbit
evaluation	non-irritant

Serious eye damage/irritation

Reference substance	Diethyl ether
Species	rabbit
evaluation	slightly irritant

Sensitization

Reference substance	Diethyl ether
Species	Human
evaluation	non-sensitizing

Experience in practice

Has a degreasing effect on the skin. Irritates the mucous membrane.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Species	Fathead minnow (Pimephales promelas)		
LC50	2600		mg/l
Duration of exposure	96	h	

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Daphnia toxicity

Species	Daphnia magna	
EC50	165	mg/l
Duration of exposure	24	h

12.2. Persistence and degradability**Biodegradability**

evaluation sparingly degradable

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

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

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1993	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Ethanol, Diethyl ether)	FLAMMABLE LIQUID, N.O.S. (Ethanol, Diethyl ether)	FLAMMABLE LIQUID, N.O.S. (Ethanol, Diethyl ether)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	I	I	I
Limited Quantity	0		
Transport category	1		

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

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Water Hazard Class
(Germany)
Remarks

WGK 3

Classification according to Annex 4 VwVwS

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H224	Extremely flammable liquid and vapour.
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Flam. Liq. 1	Flammable liquid, Category 1
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.