

Trade name: Ethanolum ketonatum

Substance number: 025500

Version: 4 / CH

Date revised: 01.04.2019

Replaces Version: 3 / CH

Print date: 05.11.19

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

### **1.1. Product identifier**

Ethanolum ketonatum

Item No. 02550000

### **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 \*\*\*

##### Butanone

CAS No.	78-93-3				
EINECS no.	201-159-0				
Concentration	>=	1.4	<	8.5	%
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			>=	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]					

#### 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**

In case of fires, hazardous combustion gases are formed; Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

### **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. 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**

Take up with absorbent material (eg sand, kieselguhr, universal binder). Provide 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**

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## 8.1. Control parameters

### Exposure limit values

#### Ethanol

List	SUVA			
Type	MAK			
Value	960	mg/m <sup>3</sup>	500	ppm(V)
Short term exposure limit	1920	mg/m <sup>3</sup>	1000	ppm(V)
Pregnancy group: S; Status: 2017; Remarks: SSc; OAW, FormalKT HU; INRS, NIOSH				

#### Butanone

List	SUVA			
Type	MAK			
Value	590	mg/m <sup>3</sup>	200	ppm(V)
Short term exposure limit	590	mg/m <sup>3</sup>	200	ppm(V)
Skin resorption / sensibilisation: H; Pregnancy group: S; Status: 2017; Remarks: H B SSc; NS, OAWKT HU; INRS, NIOSH, OSHA				

## 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

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.

### 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
<b>Initial boiling point and boiling range</b>	
Value	78 °C
<b>Flash point</b>	
Value	14 °C
<b>Upper/lower flammability or explosive limits</b>	
Lower explosion limit	3.5 to 15.0 %(V)
<b>Vapour pressure</b>	
Value	59 hPa
<b>Density</b>	
Value	0.807 g/cm <sup>3</sup>
Temperature	20 °C
<b>Solubility in water</b>	
Remarks	Completely miscible

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**Ignition temperature**

Value	425	°C
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**Decomposition temperature**

Remarks	No decomposition if used as prescribed.
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**Viscosity****dynamic**

Value	1.2	mPa.s
Temperature	20	°C

**kinematic**

Value	1.64	s
Temperature	20	°C

**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 toxicological effects****Acute oral toxicity**

ATE	214.5	mg/kg
Method	calculated value (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

**Butanone**

Species	rat	
LD50	4.29	mg/kg

**Butanone**

Species	rat	
LD50	3450	mg/kg

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**Acute dermal toxicity (Components)****Ethanol**

Species	rabbit		
LD50		15800	mg/kg

**Butanone**

Species	rabbit		
LD50	>	8000	mg/kg

**Acute inhalative toxicity (Components)****Ethanol**

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

**Skin corrosion/irritation**

Remarks	Irritating effects on the skin and mucous membrane.
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**Skin corrosion/irritation (Components)****Ethanol**

evaluation	non-irritant
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**Serious eye damage/irritation**

Remarks	Irritates the eyes.
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**Serious eye damage/irritation (Components)****Ethanol**

evaluation	irritant
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**Sensitization**

Remarks	No sensitization effect known.
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**Sensitization (Components)****Butanone**

Species	guinea pig
evaluation	non-sensitizing

**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.
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**Biodegradability (Components)****Ethanol**

evaluation	Readily biodegradable
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**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.

### 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 persistence and bioaccumulation potential (Components)

##### Ethanol

The Substance doesn't meets PBT/vPvB-criteria

### 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 \*\*\***

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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)	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

#### 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.  
 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.