

Trade name: Ethanolum ketonatum

Substance number: 025500 Version: 5 / CH Date revised: 23.08.2023

Replaces Version: 4 / CH Print date: 23.08.23

# 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.

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** \*\*\*

#### 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

ATE oral 4.29 mg/kg

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



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Do not induce vomiting. Summon a doctor immediately.

# 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

# 5.2. 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. 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



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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: SSc; Formal; INRS NIOSH

butanone

List SUVA Type MAK

Value 590  $mg/m^3$  200 ppm(V)Short term exposure limit 590  $mg/m^3$  200 ppm(V)

Skin resorption / sensibilisation: H; Pregnancy group: S; Remarks: H B SSc; NS, OAWKT HU; INRS,

NIOSH, OSHA

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

#### ethanol

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Route of exposure inhalative
Mode of action Local effects
Consentration 1999

Concentration 1900 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure oral

Mode of action Systemic effects

Concentration 434 mg/kg/d

butanone

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure inhalative
Mode of action Systemic effects

Concentration 600 mg/m<sup>3</sup>

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 1161 mg/kg/d

#### 8.2. Exposure controls

# General protective and hygiene measures

Wash hands before breaks and after work.

# Respiratory protection



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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 p
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Physical state liquid colourless
Odour characteristic

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 3.5 to 15.0 %(V)

Flash point

Value 12 to 13 °C

Method closed cup

Ignition temperature

Value 425 °C

**Decomposition temperature** 

Remarks No decomposition if used as prescribed.

**Viscosity** 

dynamic

Value 1.2 mPa.s Temperature 20 °C

kinematic

Value 1.52 mm²/s

Temperature 20 °C

Vapour pressure

Value 58 hPa
Temperature 20 °C
Value 293 hPa

Temperature 50 °C

Density and/or relative density

Value 0.81 g/cm<sup>3</sup>

Temperature 20 °C

Remarks Relative Density according specification

# 9.2. Other information

# Evaporation rate (ether = 1):

Value 8



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Solubility in water

Remarks Completely miscible

**Oxidising properties** 

evaluation None known

Other information

Forms esplosive mixture with air are possible.

# 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

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

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 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

# **Acute dermal toxicity (Components)**

ethanol

Species rabbit

LD50 15800 mg/kg

butanone



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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.

Skin corrosion/irritation (Components)

ethanol

evaluation non-irritant

Serious eye damage/irritation

Remarks Irritates the eyes.

Serious eye damage/irritation (Components)

ethanol

evaluation irritant

butanone

Species rabbit evaluation irritant

Sensitization

Remarks No sensitation effect known.

**Sensitization (Components)** 

butanone

Species guinea pig evaluation non-sensitizing

**Mutagenicity (Components)** 

ethanol

evaluation No mutagenicity in the Ames-test.

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**

#### 12.1. 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.

**Biodegradability (Components)** 



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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.

## **Bioconcentration factor (BCF) (Components)**

ethanol

BCF 0.66

## 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.

#### Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

#### Results of PBT and vPvB assessment (Ingredients)

#### ethanol

The Substance doesn't meets PBT/vPvB-criterions

#### 12.6 Endocrine disrupting properties

#### **Endocrine disrupting properties with respect to the envrionment**

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

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 (ethanol)
14.3. Transport hazard class(es)	3	3	3
Label	3	3	3
14.4. Packing group	II	II	II
Limited Quantity	11		
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 WGK 1

(Germany)

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.