

Trade name: Acetonum

Substance number: 150100

Version: 6 / CH

Date revised: 11.04.2019

Replaces Version: 5 / CH

Print date: 01.10.19

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Acetonum

Item No. 15010000

Registration no.

EC No.: 200-662-2

Registration no. 01-2119471330-49-XXXX

CAS No. 67-64-1

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/preparation**

Solvent

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

Eye Irrit. 2 H319

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 ***

H225 Highly flammable liquid and vapour.

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H319 Causes serious eye irritation.
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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

contains *** Acetone

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients *****3.1. Substances****Molecular weight**

Value 58.09 g/mol

Hazardous ingredients *****Acetone**

CAS No.	67-64-1	
EINECS no.	200-662-2	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 2	H225
	Eye Irrit. 2	H319
	STOT SE 3	H336

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Take affected person to fresh air. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. Take medical treatment. If the patient is likely to become unconscious, place and transport in stable sideways position.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

After ingestion

Do not induce vomiting. Let plenty of water be drunk in small gulps. Ensure supply of fresh air. Summon a doctor immediately. Administer activated charcoal.

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

CNS depression, Headache, Dizziness, Nausea, Unconsciousness, dry skin, Irritation of mucosa

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

Frequent and persistent contact with the skin can cause dermatitis.

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 the event of fire the following can be released: Carbon monoxide (CO); Can build mixtures of gas and air which are capable of explosion.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Wear full protective suit. 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

Wear protective equipment. Keep away unprotected persons.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers). Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Send in suitable containers for recovery or disposal. Pick up rest with suitable absorbent materials. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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). Provide good room ventilation even at ground level (vapours are heavier than air). Handle and open container with care. Avoid formation of aerosols.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Vapours can form an explosive mixture with air. Take

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action to prevent static discharges. Use explosion-proof equipment/fittings and non-sparking tools. Risk of explosion if the liquid enters the drains.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value	15	-	25	°C
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Requirements for storage rooms and vessels

explosion proof. Provide solvent-resistant and impermeable floor. Suitable materials: PE/PTFE. Use stainless steel containers. Keep in a cool place.

Hints on storage assembly

Do not store with oxidizing agents. Do not store together 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, cool and dry. Keep container tightly closed. Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Acetone

List	SUVA			
Type	MAK			
Value	1200	mg/m ³	500	ppm(V)
Short term exposure limit	2400	mg/m ³	1000	ppm(V)
Status: 2017; Remarks: B ZNS; AugKT HU & AWKT HU; NIOSH				

8.2. Exposure controls

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. At work do not eat, drink, smoke or take drugs. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Hold eye wash fountain available. 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

Gloves (solvent-resistant)
 Appropriate Material butyl
 Material thickness 0.5 mm
 Breakthrough time >= 4 h
 Not suitable: gloves made of thick material
 Not suitable: leather gloves
 Not suitable: gloves of natural latex
 Not suitable: gloves of polychloroprene
 Not suitable: PVC gloves
 Not suitable: gloves of nitrile rubber - NBR

Eye protection

Tightly fitting safety glasses

Body protection

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Solvent-resistant protective clothing

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

Form	liquid			
Colour	colourless			
Odour	fruit-like			
Odour threshold				
Value	appr. 13			µg/l
pH value				
Value	5	to	6	
Concentration/H ₂ O	10	g/l		
Temperature	20	°C		
Melting point				
Value	-95			°C
Method	DIN 51761			
Initial boiling point and boiling range				
Value	55.6	to	56.8	°C
Method	ASTM D 1078			
Flash point				
Value	-18			°C
Method	DIN 51755			
Upper/lower flammability or explosive limits				
Lower explosion limit	2.1			%(V)
Upper explosion limit	13.0			%(V)
Vapour pressure				
Value	240			hPa
Method	DIN 51754			
Value	800			hPa
Temperature	50	°C		
Vapour density				
Value	2.0			
Density				
Value	0.791			g/cm ³
Solubility in water				
Value	790			g/l
Remarks	Completely miscible			
Ignition temperature				
Value	535			°C
Method	DIN 51794			
Auto-ignition temperature				
Value	465			°C
Viscosity				
dynamic				
Value	0.33			mPa.s
Method	DIN 51550			

9.2. Other information

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Other information

The product is not dangerous for explosions. Forms explosive 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

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Keep away from sources of heat and ignition.

10.5. Incompatible materials

Reactions with strong acids. Reactions with oxidising agents. Reactions with halogenated compounds. Alkaline metals

10.6. Hazardous decomposition products

Flammable gases/vapours, Irritant gases/vapours, Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****Acetone**

Species	rat		
LD50		5800	mg/kg
Method	OECD 401		

Acute dermal toxicity (Components)**Acetone**

Species	rabbit		
LD50	>	15800	mg/kg

Acute inhalative toxicity (Components)**Acetone**

Species	rat		
LC50	appr.	76	mg/l
Duration of exposure	4	h	

Skin corrosion/irritation

Remarks	Repeated and prolonged skin contact may lead to defatting and irritation of the skin.
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Serious eye damage/irritation

evaluation	irritant
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Sensitization

Remarks	No sensitisation effect known.
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Subacute, subchronic, chronic toxicity

Remarks	Chronic exposure may cause serious damage of skin.
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Mutagenicity (Components)**Acetone**

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evaluation

No mutagenicity according to various in vitro tests.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)****Acetone**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	5540	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)**Acetone**

Species	Daphnia magna	
LC50	8000	mg/l
Duration of exposure	48	h

Algae toxicity (Components)**Acetone**

NOEC	430	mg/l
Duration of exposure	96	h

Bacteria toxicity (Components)**Acetone**

Species	activated sludge	
	1000	mg/l
Duration of exposure	0.5	h
Method	OECD 209	

12.2. Persistence and degradability**Biodegradability (Components)****Acetone**

Value	91	%
Duration of test	28	d
evaluation	Readily biodegradable	
Method	OECD 301 B	

Chemical oxygen demand (COD) (Components)**Acetone**

Value	2100	mg/g
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Biochemical oxygen demand (BOD5) (Components)**Acetone**

Value	1900	mg/g
Duration of test	5	d

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****Acetone**

log Pow	-0.24
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12.4. Mobility in soil**Mobility in soil**

The product is easily volatile.

12.5. Results of PBT and vPvB assessment

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Evaluation of persistence and bioaccumulation potential (Components)**Acetone**

The Substance doesn't meets PBT/vPvB-criteria

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

Do not allow it to reach ground water, water bodies or sewage system. Do not allow liquid and/or vapour to enter subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code

No not dispose with rubbish.

EWC waste code




Should not be released into the sanitary sewer system.

Recovery or recycling, if possible. Otherwise: combustion in incineration plant.

Disposal recommendations for packaging

Unpurified packings can contain mixtures of gas and air which are capable of explosion.

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	1090	1090	1090
14.2. UN proper shipping name	ACETONE	ACETONE	ACETONE
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

WGK 1

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

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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.