

Trade name: Acetonum

Substance number: 150100 Version: 8 / CH Date revised: 04.01.2024

> Replaces Version: 7 / CH Print date: 04.01.24

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 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)

H225 Flam. Liq. 2 Eve 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.

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

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.



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After ingestion ***

Do not induce vomiting. Let plenty of water be drunk in small gulps. Ensure supply of fresh air. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

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

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

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

Hints for the physician / treatment ***

Continue to monitor for pneumonia and pulmonary oedema.

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

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); Carbon dioxide (CO2); Forms esplosive mixture with air are possible. Vapours heavier than air.

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. Ensure adequate ventilation. Avoid contact with eyes and skin. Do not inhale vapours.

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. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

6.4. Reference to other sections

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



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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 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

Requirements for storage rooms and vessels ***

explosion proof. Provide solvent-resistant and impermeable floor. Suitable materials: iron. Suitable material: stainless steel. Unsuitable material: plastic materials. Suitable packaging materials: steel, stainless steel, aluminium. Unsuitable packaging materials: Copper

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/m³
 500
 ppm(V)

 Short term exposure limit
 2400
 mg/m³
 1000
 ppm(V)

Remarks: B ZNS; AugeKT HU & AWKT HU; NIOSH

Derived No/Minimal Effect Levels (DNEL/DMEL)

acetone

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 186 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term



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Route of exposure inhalative

Mode of action Systemic effects

Concentration 1210 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Short term
Route of exposure inhalative
Mode of action Local effects

Concentration 2420 mg/m³

Type of value Derived No Effect Level (DNEL)

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

Mode of action Systemic effects

Concentration 62 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 200 mg/m³

Predicted No Effect Concentration (PNEC)

acetone

Type of value PNEC
Type Freshwater

Concentration 10.6 mg/l

Type of value PNEC
Type Saltwater

Concentration 1.06 mg/l

Conditions Intermittend

Concentration 21 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 100 mg/l

Type of value PNEC Sediment

Concentration 30.4 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 3.04 mg/kg

Type of value PNEC Type Soil

Concentration 29.5 mg/kg

8.2. Exposure controls



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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

In case of insufficient ventilation, wear suitable respiratory equipment. Gas filterAX. EN 141; At intensive and longer exposition use self-contained breathing apparatus.

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 >= 4 h Hand protection must comply with EN 374.

Eye protection

Tightly fitting safety glasses

Body protection

Solvent-resistant protective clothing

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state liquid colourless Odour sweetish

Melting point

Value -94.7 °C

Boiling point or initial boiling point and boiling range

Value 56.05 °C

Upper and lower explosive limits

Lower explosion limit 2.5 %(V)
Upper explosion limit 14.3 %(V)

Flash point

Value -17 °C Method closed cup

Ignition temperature

Value 465 °C

Method DIN 51794

Decomposition temperatureValue 235 °C

pH value

Value 5 to 6 Concentration/H2O 395 g/l Temperature 20 °C

Viscosity

dynamic

Value 0.32 mPa.s



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Temperature 20 °C

Partition coefficient n-octanol/water (log value)

log Pow -0.24 Temperature 20 °C

Vapour pressure

Value 240 hPa

Method DIN 51754

Value 800 hPa

Temperature 50 °C

Density and/or relative density

Value 0.79 g/cm³

Relative vapour density

Value 2.1

Temperature 20 °C

9.2. Other information

Odour threshold

Value 13 µg/l

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

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

10.3. Possibility of hazardous reactions

Vapours can form an explosive mixture with air. Protect from exposure to air/oxygen (peroxide formation).

10.4. Conditions to avoid

Keep away from sources of heat and ignition.

10.5. Incompatible materials

Reactions with reducing agents. Reactions with oxidising agents. Reactions with halogenated compounds. Alkaline metals, hydrogen peroxide (H2O2), peroxides, Potassium permanganate, Reaction with nitric acid.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute oral toxicity (Components)

acetone



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Species rat

LD50 5800 mg/kg

Method OECD 401

Acute dermal toxicity (Components)

acetone

Species rat

LD50 > 15800 mg/kg

Acute inhalative toxicity (Components)

acetone

Species rat

LC50 appr. 76 mg/l

Duration of exposure 4 h

Remarks May cause pain in nose and throat, nausea, dizziness, headache, loss of

responsiveness and unconsciousness at high concentrations.

Skin corrosion/irritation

Remarks Repeated and prolonged skin contact may lead to defatting and irritation of

the skin.

Skin corrosion/irritation (Components)

acetone

Remarks Frequent persistent contact with the skin can cause skin irritation.

Serious eye damage/irritation

evaluation irritant

Serious eye damage/irritation (Components)

acetone

evaluation irritant - risk of serious damage to eyes

Sensitization

Remarks No sensitation effect known.

Sensitization (Components)

acetone

Species guinea pig evaluation non-sensitizing Method OECD 406

Subacute, subchronic, chronic toxicity

Remarks Chronic exposure may cause serious damage of skin.

Mutagenicity (Components)

acetone

evaluation No mutagenicity according to various in vitro tests.

Reproduction toxicity (Components)

acetone

Remarks No indications of toxic effects were observed in reproduction studies in

animals.

Carcinogenicity (Components)

acetone

Remarks No evidence available on carcinogenicity.

Specific Target Organ Toxicity (STOT) (Components)

acetone

Repeated exposure



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Route of exposure oral

Species rat

NOAEL 900 mg/kg/d Duration of exposure 90 Days

acetone

Repeated exposure

Route of exposure inhalative

Species rat

NOAEC 22500 mg/m³ Duration of exposure 8 Weeks

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information ***

12.1. Toxicity

Fish toxicity (Components)

acetone

Species rainbow trout (Oncorhynchus mykiss)

LC50 5540 mg/l

Duration of exposure 96 h

acetone

Species bleak (Alburnus alburnus)

LC50 11000 mg/l

Duration of exposure 96 h

Daphnia toxicity (Components)

acetone

Species Daphnia pulex

LC50 8800 mg/l

Duration of exposure 48 h

acetone

Species Daphnia pulex

2212 mg/l

Duration of exposure 28 d

Algae toxicity (Components)

acetone

Species Prorocentrum minimum

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

Physico-chemical eliminability (Components)

acetone



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Remarks The product is readily biodegradable according to OECD criteria.

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

Biochemical oxygen demand (BOD5) (Components)

acetone

Value 1760 mg/g

Duration of test 5 d

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

log Pow -0.24
Temperature 20 °C

Octanol/water partition coefficient (log Pow) (Components)

acetone

log Pow -0.24

Bioconcentration factor (BCF) (Components)

acetone

BCF < 10

12.4. Mobility in soil

Mobility in soil

The product is easily volatile.

Mobility in soil (Components)

acetone

Mobile in soils

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment ***

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. 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



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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. Otherweise: 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	***	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

15.2. Chemical safety assessment

For this substance a chemical safety assessment has 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



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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.