

Page 1/10

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

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

· Product identifier

· Trade name: <u>acetic acid</u> · Article number: 7004

· CAS Number:

64-19-7

• **EC number:** 200-580-7

· Index number: 607-002-00-6

- · Registration number The substance is exempt from REACH-registration.
- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture

Ingredient for pharmaceutical drugs

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

CAELO

Caesar & Loretz GmbH

Herderstr. 31 D-40721 Hilden

GERMANY

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Lig. 3 H226 Flammable liquid and vapour.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

- · Label elements
- Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)



Page 2/10

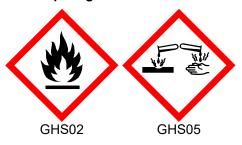
Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

Trade name: acetic acid

(Contd. of page 1)

· Hazard pictograms



- · Signal word Danger
- · Hazard statements

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

3 Composition/information on ingredients

- · Substances
- · CAS No. Description

CAS: 64-19-7 acetic acid

- · Identification number(s)
- EC number: 200-580-7
- · Index number: 607-002-00-6 · Specific concentration limits Skin Corr. 1A; H314: C ≥ 90 %

Skin Corr. 1B; H314: 25 % \leq C < 90 % Skin Irrit. 2; H315: 10 % \leq C < 25 % Eye Irrit. 2; H319: 10 % \leq C < 25 %

4 First aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.

(Contd. on page 3)



Page 3/10

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

Trade name: acetic acid

(Contd. of page 2)

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.

Call a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Most important symptoms and effects, both acute and delayed

Breathing difficulty

Cramp

Nausea

Vomiting

Collapse

Etching effects

Irritation

Bronchitis

Risk of blindness

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

* 5 Firefighting measures

- Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

In case of fire, the following can be released:

acetic acid fumes

- · Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 4)



Page 4/10

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

Trade name: acetic acid

(Contd. of page 3)

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling Work only in fume cupboard.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store receptacle in a well ventilated area.

Keep container tightly sealed.

- Storage class: TRHS 510: 3 Flammable liquid
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

CAS: 64-19-7 acetic acid

OEL Short-term value: 50 mg/m³, 20 ppm Long-term value: 25 mg/m³, 10 ppm **IOELV**

DNELs

30,58 mg/l (periodische Freisetzung) (ins Wasser)

0,3058 mg/l (Meerwasser)

MSDS

3,058 mg/l (Süßwasser)

MSDS

PNECs

0,478 mg/kg (Boden) (bw/day)

MSDS

85 mg/kg (Kläranlage)

MSDS

1,136 mg/kg (Meeressediment)

11,36 mg/kg (Süßwassersediment) (bw/day)

- · Additional information: The lists valid during the making were used as basis.
- Exposure controls
- · Appropriate engineering controls No further data; see section 7.

(Contd. on page 5)



Page 5/10

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

Trade name: acetic acid

(Contd. of page 4)

- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Respiratory protection: Respiratory with filter.
- Hand protection

Protective gloves made of latex (minimum layer thickness: 0.6 mm, breakthrough time: 30 min)

Protective gloves made of butyl rubber (minimum layer thickness: 0.7 mm, breakthrough time: 480 min)

Protective gloves

Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye/face protection Tightly sealed goggles
- · Body protection: Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Physical state Fluid · Colour: Colourless · Odour: Pungent Not determined. · Odour threshold:

· Melting point/freezing point: 16.6 °C

Boiling point or initial boiling point and boiling

118 °C Flammable. · Flammability

Lower and upper explosion limit

· Lower: 4 Vol % · Upper: 17 Vol % · Flash point: 39 °C · Auto-ignition temperature: 485 °C

Decomposition temperature: Not determined.

· pH 2.5

· Viscosity:

· Kinematic viscosity Not determined. · Dynamic at 20 °C: 1.24 mPas

· Solubility

· water: Fully miscible. Not determined. · Partition coefficient n-octanol/water (log value)

(Contd. on page 6)



Page 6/10

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

16 hPa

Trade name: acetic acid

(Contd. of page 5)

· Vapour pressure at 20 °C:

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

· Other information

· Appearance:

· Form: Fluid

Important information on protection of health

and environment, and on safety.

· **Ignition temperature:** Not determined.

• Explosive properties: Product is not explosive. However, formation of

Void

explosive air/vapour mixtures are possible.

Molecular weight 60.05 g/mol

· Change in condition

· Flammable solids

• Evaporation rate Not determined.

· Information with regard to physical hazard classes

Explosives Void
Flammable gases Void
Aerosols Void
Oxidising gases Void
Gases under pressure Void

• Flammable liquids Flammable liquid and vapour.

· Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable Void gases in contact with water Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void · Desensitised explosives Void

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions

Risk of explosion on contact with hydrogen peroxide.

Reacts with strong oxidising agents.

Violent reactions with strong alkalis and oxidising agents.

(Contd. on page 7)



Page 7/10

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

Trade name: acetic acid

(Contd. of page 6)

- · Conditions to avoid High temperature.
- Incompatible materials: Metals
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Oral LD50 3,310 mg/kg (rat)
Dermal LD50 1,060 mg/kg (rabbit)
Inhalative LC50 11.4 mg/m3 /4h (rat)

- Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · **Aspiration hazard** Based on available data, the classification criteria are not met.
- · Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

- · Toxicity
- Aquatic toxicity:

LC50 75 mg/L /96h (Fish)

EC50 300 mg/L /72h (algae)

11 mg/L /72h (Bacteria)

47 mg/L /24h (Daphnia magna)

- Persistence and degradability Easily biodegradable
- · Bioaccumulative potential Does not accumulate in organisms
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- **Endocrine disrupting properties**

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

(Contd. on page 8)



Page 8/10

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

Trade name: acetic acid

(Contd. of page 7)

The product does not contain substances with endocrine disrupting properties.

- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

*13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to local regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

*14 Transport information

· UN number or ID number

· ADR, IMDG, IATA UN2789

· UN proper shipping name

· ADR

2789 ACETIC ACID, GLACIAL

· IMDG

· IATA

2789 ACETIC ACID, GLACIAL

ACETIC ACID, GLACIAL

Acetic acid, glacial

· Transport hazard class(es)

· ADR

· Class 8 Corrosive substances.

· Label 8+3

· IMDG

· Class 8 Corrosive substances.

· Label 8/3

· IATA

· Class 8 Corrosive substances.

· **Label** 8 (3)

· Packing group

· ADR, IMDG, IATA

· Environmental hazards: Not applicable.

Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 83
 EMS Number: F-E,S-C
 Segregation groups (SGG1) Acids

· Stowage Category A

• **Segregation Code**SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides

(Contd. on page 9)



Page 9/10

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

Trade name: acetic acid

(Contd. of page 8)

· Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· Transport category 2 · Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 2789 ACETIC ACID, GLACIAL, 8 (3), II

*15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40, 75
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

Substance is not listed.

- National regulations:
- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 3 Flammable liquid

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- Reasons for alterations This version replaces all old versions.
- · Date of previous version: 21.08.2024
- · Version number of previous version: 1.00
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

(Contd. on page 10)



Page 10/10

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.09.2024 Version number 2.00 (replaces version 1.00) Revision: 24.09.2024

Trade name: acetic acid

(Contd. of page 9)

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Skin Corr. 1A: Skin corrosion/irritation – Category 1A

* Data compared to the previous version altered.

IE -