

Trade name: Acid citricum anhydricum pulvis

Substance number: 060157 Version: 4 / CH Date revised: 12.06.2024

Replaces Version: 3 / CH Print date: 12.06.24

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

1.1. Product identifier

Acid citricum anhydricum pulvis

Item No. 06015700

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)

Eye Irrit. 2 H319 STOT SE 3 H335

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

Warning

Hazard statements ***

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements ***

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.

P312 Call a POISON CENTRE or doctor if you feel unwell.
P501.3 Disposal in compliance with local and national regulations.



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

contains *** Citric acid, anhydrous

2.3. Other hazards

Dust can form an explosive mixture with air. The product is combustible.

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

Molecular weight

Value 192.12 g/mol

Hazardous ingredients

Citric acid, anhydrous

CAS No. 77-92-9 EINECS no. 201-069-1

Registration no. 01-2119457026-42-XXXX

Concentration >= 50 %

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319 STOT SE 3 H335

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and shoes immediately. In case of persistent symptoms consult doctor.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

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

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. By continuous complaints consult a physician.

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, Dry chemical extinguisher, Carbon dioxide

Non suitable extinguishing media

Full water jet



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5.2. Special hazards arising from the substance or mixture

The product is combustible. In case of combustion evolution of dangerous gases possible. Carbon monoxide (CO); Carbon dioxide (CO2)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. 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 dust formation. Avoid contact with eyes and skin.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

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

Keep container tightly closed. Wear protective equipment. Avoid the formation and deposition of dust. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value 10 30 °C

Requirements for storage rooms and vessels

Keep only in original packaging. Keep tightly closed in a dry and cool place.

Hints on storage assembly

Do not store together with: Foodstuffs

Storage classes

Storage category (Switzerland) 11/13 Other solid hazardous substances with

classification/labelling hazardous

Storage class according to TRGS 510 11 Combustible solids

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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Exposure limit values

Citric acid, anhydrous

SUVA Type MAK

Value ma/m³ mg/m³ Short term exposure limit 4

Remarks: SSc; AW Reizung

Predicted No Effect Concentration (PNEC)

Citric acid, anhydrous

PNEC Type of value Type Freshwater Concentration 0.44

mg/l

Type of value **PNEC** Type Saltwater

Concentration 0.044 mg/l

PNEC Type of value

Type Sewage treatment plant (STP)

Concentration 1000 mg/l

Type of value **PNEC**

Freshwater sediment Type

Concentration 34.6 mg/kg/d

PNEC Type of value Sediment Type

Concentration 3.46 mg/kg/d

Type of value **PNEC** Type Soil

Concentration 33.1 mg/kg/d

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.

Respiratory protection

Appropriate Material

Breathing apparatus in the event of aerosol. Particle filter P2; Respiratory protection according to EN141

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 **Natural Latex** Material thickness 0.5 mm Breakthrough time 8 h Hand protection must comply with EN 374. Appropriate Material Polychloroprene Material thickness 0.5 mm Breakthrough time 8 h Appropriate Material nitrile rubber - NBR

Material thickness 0.35 mm Breakthrough time 8 h

Butyl rubber



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Material thickness 0.5 mm

Breakthrough time >= 8 h

Appropriate Material Fluoro carbon rubber - FKM

Material thickness 0.4 mm

Breakthrough time >= 8 h

Appropriate Material PVC

Material thickness 0.5 mm
Breakthrough time >= 8 h

Eye protection

Tightly fitting safety glasses; Eye protection must comply with EN 166.

Body protection

Protective clothing

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Granules
Colour white
Odour odourless

Physical state Crystalline powder

Melting point

Value 153 °C

Boiling point or initial boiling point and boiling range

Value > 175 °C

Flash point

Value 345 °C Method closed cup

Decomposition temperature

Value > 175 °C

pH value

Value 1.8
Concentration/H2O 50 g/l
Temperature 25 °C

Vapour pressure

Value < 0.001 hPa
Temperature < 0.001 °C

Density and/or relative density

Value 1.665 g/cm³

Temperature 20 °C

9.2. Other information

Solubility in water

Value 590 to 1450 g/l

Explosive properties

evaluation Dust

Oxidising properties

evaluation None known



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Other information

Forms esplosive mixture with air are possible.

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Protect from atmospheric moisture and water. Avoid dust formation. Keep away from sources of heat and ignition. danger of dust explosion

10.5. Incompatible materials

Incompatible with alkaline substances . Oxidising agents, Acids, Nitrites

10.6. Hazardous decomposition products

In the event of fire the following can be released: 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)

Citric acid, anhydrous

Species mouse

LD50 5400 mg/kg

Method OECD 401

Acute dermal toxicity (Components)

Citric acid, anhydrous

Species rat

LD50 > 2000 mg/kg

Method OECD 402

Skin corrosion/irritation (Components)

Citric acid, anhydrous

Species rabbit evaluation non-irritant Method OECD 404

Serious eye damage/irritation (Components)

Citric acid, anhydrous

evaluation irritant

Sensitization (Components)

Citric acid, anhydrous

Remarks None

Subacute, subchronic, chronic toxicity (Components)

Citric acid, anhydrous

Route of exposure oral Species rat



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NOAEL 1200 mg/kg

Long term

Duration of exposure 2 y
Remarks negative on animals

Mutagenicity (Components)

Citric acid, anhydrous

Species Salmonella typhimurium

evaluation No experimental information on genotoxicity in vitro available.

Reproduction toxicity (Components)

Citric acid, anhydrous

evaluation No negative effects

Carcinogenicity (Components)

Citric acid, anhydrous

evaluation No negative effects

Specific Target Organ Toxicity (STOT) (Components)

Citric acid, anhydrous

evaluation May cause respiratory irritation.

Route of exposure inhalative Organs: Respiratory tract

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)

Citric acid, anhydrous

Species golden orfe (Leuciscus idus)

LC50 440 mg/l

Duration of exposure 48 h

Method OECD 203

Daphnia toxicity (Components)

Citric acid, anhydrous

Species Daphnia

EC50 120 mg/l

Duration of exposure 72 h

Citric acid, anhydrous

Species Daphnia magna

LC50 1535 mg/l

Duration of exposure 24 h

Bacteria toxicity (Components)

Citric acid, anhydrous

EC50 > 100000 mg/l

12.2. Persistence and degradability

Biodegradability (Components)

Citric acid, anhydrous

Value 97 %



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Duration of test 28 d evaluation Readily biodegradable

Method OECD 301 B

12.3. Bioaccumulative potential

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

Citric acid, anhydrous

log Pow -1.80 to -1.61

Remarks Not relevant

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.

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

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

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

H319 Causes serious eye irritation. H335 May cause respiratory irritation.



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CLP categories listed in Chapter 3

Eye Irrit. 2 Eye irritation, 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.