

Trade name: Acid citricum anhydr fine gran 700

Substance number: 060155

Version: 3 / CH

Date revised: 22.09.2020

Replaces Version: 2 / CH

Print date: 22.09.20

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

1.1. Product identifier

Acid citricum anhydr fine gran 700
Item No. 06015500

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

food additive, Manufacture of pharmaceutical products

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

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.

Precautionary statements ***

P264.1 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

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SECTION 3: Composition/information on ingredients ***

Chemical characterization

2-Hydroxy-1,2,3-propanetricarboxylic acid

Molecular weight

Value	192.2	g/mol
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Hazardous ingredients ***

citric acid

CAS No.	77-92-9	
EINECS no.	201-069-1	
Registration no.	01-2119457026-42	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2	H319

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. Do not use mouth-to-mouth or mouth-to-nose resuscitation. In the event of symptoms take medical treatment. If the patient is likely to become unconscious, place and transport in stable sideways position. Summon a doctor immediately. Keep breathing passages free.

After skin contact

Wash skin thoroughly with water (15 min.). Remove contaminated, soaked clothing immediately and dispose of safely. Summon a doctor immediately.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

Rinse mouth thoroughly with water. Take affected person to fresh air. Keep at rest. Drink water in small gulps. Do not induce vomiting. By continuous complaints consult a physician. Never give anything by mouth to an unconscious person.

Adhere to personal protective measures when giving first aid

No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

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

Irritation of respiratory organs, Coughing

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, Foam

Non suitable extinguishing media

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Full water jet, Water spray jet

5.2. Special hazards arising from the substance or mixtureForms explosive mixture with air are possible. In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin. Keep away sources of ignition. Respiratory protection

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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".

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Wear protective equipment. Avoid contact with skin, eyes and clothing. Do not swallow. Do not inhale dust. Keep away sources of ignition. Avoid the formation and deposition of dust. Use only in well-ventilated areas. Provide good ventilation of working area (local exhaust ventilation if necessary). Wear respiratory protection when spraying. Take action to prevent static discharges. Isolate from sources of heat, sparks and open flame.

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.

Hints on storage assembly

Do not store together with foodstuffs. Do not store with oxidizing agents. Do not store with combustible materials.

Storage classes

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	11/13	Other solid hazardous substances with classification/labelling hazardous

Further information on storage conditions

Protect from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: Exposure controls/personal protection ***

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8.2. Exposure controls

General protective and hygiene measures

Wash thoroughly after work. Do not eat, drink or smoke during work time. Wash hands and face before breaks and after work. Remove contaminated, soaked clothing immediately and dispose of safely. Hold eye wash fountain available. Hold emergency shower available.

Respiratory protection

Self-contained breathing apparatus.

Hand protection

Chemical resistant gloves

Appropriate Material nitrile rubber - NBR

Breakthrough time > 8 h

Eye protection

Safety glasses with side protection shield

Body protection

Protective clothing

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Form	Powder to fine granulates		
Colour	colourless to white		
Odour	odourless		
pH value			
Value	2.2		
Concentration/H ₂ O	10	g/l	
Temperature	20	°C	
Value	1.7		
Concentration/H ₂ O	100	g/l	
Temperature	20	°C	
Value	1.8		
Concentration/H ₂ O	50	g/l	
Temperature	25	°C	
Melting point			
Value	153		°C
Initial boiling point and boiling range			
Value	> 175		°C
Flash point			
Value	100		°C
Method	closed cup		
Vapour pressure			
Value	0.00000		mmHg
	0017		
Temperature	25	°C	
Source	Estimated value		
Density			
Value	1.665		g/cm ³
Temperature	20	°C	
Remarks	Relative Density according specification		
Solubility in water			

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Value	592		g/l
Temperature	20	°C	

Solubility(ies)

Ethanol	
Remarks	soluble
Diethyl ether	
Remarks	partly soluble

Decomposition temperature

Value	> 175	°C
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SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Keep away from sources of heat and ignition. Flames. Sparks. Avoid dust formation.

10.5. Incompatible materials

Reducing agents, Acids, Alkalis

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 toxicological effects****Acute oral toxicity (Components)****citric acid**

Species	mouse	
LD50	5400	mg/kg
Method	OECD 401	

Acute dermal toxicity (Components)**citric acid**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

Skin corrosion/irritation (Components)**citric acid**

Species	rabbit
evaluation	non-irritant
Method	OECD 404

citric acid

Species	rabbit
Duration of exposure	72 h
evaluation	slightly irritant

Serious eye damage/irritation (Components)

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citric acid
evaluation irritant

citric acid
Species rabbit
Duration of exposure 72 h
evaluation strongly irritant

Sensitization (Components)

citric acid
Remarks None

Subacute, subchronic, chronic toxicity (Components)

citric acid
Route of exposure oral
Species rat
NOAEL 1200 mg/kg
Long term
Duration of exposure 2 y
Remarks negative on animals

Mutagenicity (Components)

citric acid
Species Salmonella typhimurium
evaluation No experimental information on genotoxicity in vitro available.

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

citric acid
Species golden orfe (Leuciscus idus)
LC50 440 760 mg/l

citric acid
Species golden orfe (Leuciscus idus)
LC50 440 mg/l
Method OECD 203

Daphnia toxicity (Components)

citric acid
Species Daphnia
EC50 120 mg/l
Duration of exposure 72 h

citric acid
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
Value 97 %

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

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 (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Hazard statements listed in Chapter 3

H319 Causes serious eye irritation.

CLP categories listed in Chapter 3

Eye Irrit. 2 Eye irritation, Category 2

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.