

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

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Publication: 07/01/2021

Revision: 08/04/2025

Version: 01



## ACIDUM CITRICUM

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name:	Citric Acid Anhydrous Acidum citricum Citroenzuur Citrique (acide) Citroensäure
N° CAS:	77-92-9
N° EC:	201-069-1

#### 1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
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#### 1.3 Details of the supplier of the safety data sheet

Company:	Magis-Pharma NV Neerlandweg 24 2610 Wilrijk Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

#### 1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance/mixture

##### Classification according to (EC) n° 1272/2008

Eye irritation (category 2).	H319
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#### 2.2 Label elements

##### Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): ATTENTION

Hazard statements:

H319	Causes serious eye irritation.
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### Precautionary statements:

P264	Wash 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.
Additional applicable label elements:	Not applicable.

### 2.3 Other hazards

Not available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Product name:	Citric Acid Anhydrous
IUPAC name:	2-hydroxypropane-1,2,3-tricarboxylic acid
Synonyms:	Anhydrous citric acid E330
N° CAS:	77-92-9
N° EC:	201-069-1
Molecular Formula:	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
Content:	99.5% 100.5%

### 3.2 Mixtures

Not applicable.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

After inhalation:	Bring outdoors. If breathing is irregular, call a doctor immediately. Only apply artificial respiration if breathing stops or under medical supervision.
After skin contact:	Wash immediately with plenty of soap and water for at least 15 minutes. Take off all contaminated clothing immediately. Get medical attention if irritation develops and persists.
After eye contact:	Remove contact lenses and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
After swallowing:	If conscious, give the victim plenty of water to drink. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

Not available.

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

Not available.

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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Water, carbon dioxide, foam, fire-extinguishing powder.

Unsuitable extinguishing media: Direct stream with water.

#### 5.2 Special hazards arising from the substance/mixture

Avoid breathing combustion products. The product is combustible and, when the dusts are dispersed in the air in sufficient concentrations and in the presence of an ignition source, it can produce explosive mixtures with air. The fire can develop or be fueled by the solid, eventually dripping from the container, when it reaches high temperatures or by contact with sources of ignition.

#### 5.3 Advice for firefighters

Surrounding fires: Cool the containers with water to avoid decomposition of the product and the development of many dangerous potentials. Always wear full fire protection. Collect the water (should not enter the sewer). Eliminate contaminated water used for extinguishing.

Protection against fire: Wear a self-contained respiratory protective device.

Hazardous combustion products: Helmet with a visor, fire retardant clothing (jacket and trousers with suspenders around the arms, legs and waist, gloves) (fireproof and dielectric), full face mask that covers the entire face of the operator (self-protective) in the case of large amounts of smoke, a self-contained breathing apparatus.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Take the spilled product and place in the containers for recovery or disposal. Delete the residue with water spray if there are no contraindications in the product. Ensure the adequate ventilation of the affected area.

##### For emergency responders

Check possible incompatibilities for the material in section 7. Disposal of the contaminated material must be done in accordance with the provisions of section 13.

#### 6.2 Environmental precautions

Prevent further leaks or spills. Do not let the product enter the sewerage.

#### 6.3 Methods and material for containment and cleaning up

Take the product and place it in containers for recovery or disposal. Delete any residue with spray water if there are no contraindications. Ensure the adequate ventilation of the area affected by the leak. Check for possible material incompatibilities in section 7. The disposal of the contaminated material must be done in accordance with the foresight of section 13.

#### 6.4 Reference to other sections

For individual protection control, check section 8

To eliminate any substances, check section 13.

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### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Precautions for safe handling:	Avoid the segregation of dust and aerosol spray. Must have the correct extradition of those places which had the dust. Normal prevention of fire. Avoid the accumulation of electrostatic charges.
Personal protection:	Not available.
Technical protective measures:	Not available.
Handling:	Not available.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage:	Keep only the original container.
Conditions for safe storage, including any incompatibilities:	Save the recipients close in a well-ventilated area, keep the product away from solar light.
Storage – away from:	Keep containers away from incompatible materials, checking section 10.

#### 7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Since the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation at the workplace through effective local suction. When choosing personal protective equipment, ask your chemical suppliers if necessary. Personal protective equipment must be at the CE mark attesting to compliance with the applicable regulations. Arrange an emergency shower with a visco-elastic tray.

#### 8.2 Exposure controls

##### Appropriate engineering control

Not available.

##### Individual protection measures

Eye/face protection:	Safety glasses and mask according to the regulation EN166.
Skin protection:	Choose body protection according to the quantity and concentration of the hazardous substance in the workplace. Hygiene measures: Handling.
Hand protection:	Gloves should be according to the regulation EU 89/686/CEE and EN374.
Respiratory protection:	Where risk assessment shows air purifying respirators to be appropriate, use type N95 (USA) or type P1(EN 143) dust mask. Use respirators and components tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU).
Thermal hazards:	Use the correct precautions of industrial hygiene, respect the security laws. Wash your hands before breaks and after finishing working.

##### Environmental exposure control

Not available.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance:	Crystalline dust.
Odour:	Odourless.
Odour threshold:	Not available.
pH:	1.8
Melting/freezing point:	153 °C.
Initial boiling point:	Not available.
Boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	0.868 g/mL
Solubility:	Not available.
Solubility in water:	67.6% (20 °C)
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	345 °C
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

#### 9.2 Other information

Not available.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

Not available.

#### 10.2 Chemical stability

Not available.

#### 10.3 Possibility of hazardous reactions

Not available.

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### 10.4 Conditions to avoid

Avoid any incorrect manipulation: high pressure and high temperatures, direct sunlight and/or contact with air.

### 10.5 Incompatible materials

Strong oxidising bases.

### 10.6 Hazardous decomposition products

In the situation of fire or high temperatures, potentially harmful toxic vapors may form.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity:	725 mg/kg
Skin corrosion/irritation:	Not available.
Serious eye damage/irritation:	Not available.
Respiratory/skin sensitisation:	Not available.
Germ cell mutagenicity:	Not available.
Carcinogenicity:	Not available.
Reproductive toxicity:	Not available.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Not available.
Other:	Not available.

### 11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Redness, swelling, pain and tearing.
Skin contact:	Can cause health problems such as abdominal pain, with burning, nausea and vomiting.
Inhalation:	Damages in the superior airways.
Ingestion:	Irritation.
Aspiration:	Not available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity LC50 (Daphnia magna): 1535 mg/L/24 hours  
Toxicity LC50 (Leuciscus idus): 440 mg/L/48 hours

### 12.2 Persistence and degradability

Easily biodegradable.

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### 12.3 Bioaccumulative potential

This product is water-soluble and easily biodegradable in water and soil. Accumulation phenomena are unlikely.

### 12.4 Mobility in soil

Not available.

### 12.5 Results of PBT and vPvB assessment

Not available.

### 12.6 Other adverse effects

May cause long-term negative effects to the aquatic environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Consider the federal state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a fuel solvent and burn it in a chemical incinerator equipped with an afterburner and a scrubber. Contaminated packaging Dispose of as unused product.

## SECTION 14: TRANSPORT INFORMATION

### Transport information according to ADR/RID/IMDG/ICAO/IATA

#### 14.1 UN Number

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Not classified.

#### 14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Not classified.

#### 14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Not classified.

#### 14.4 Packing group

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Not classified.

#### 14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Not classified.

#### 14.6 Special precautions for user

Not available.

#### 14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

#### 14.8 Additional transport information

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Not available.

### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture

Hazard symbol:



Risk phrases: Not available.

Safety phrases: Not available.

#### 15.2 Chemical safety assessment

Not available.

### SECTION 16: OTHER INFORMATION

#### 16.1 Changes since the previous version

Not applicable.

#### 16.2 Abbreviations and acronyms used

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

#### 16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

#### 16.4 Method of classification in case of mixture

Not applicable.

#### 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.



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### 16.6 Training advisement

Not available

### 16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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### 16.8 Department issuing MSDS

Quality Department

FAC SECUNDUM ARTEM NV

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