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Version: 01

ACIDUM CITRICUM MONOHYDRICUM

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

1.1 Product identifier

Product name: Citric acid monohydrate

> Acidum citricum monohydricum Citroenzuur monohydraat Citrique (acide) monohydraté CitronensäureZitronensäure

N° CAS: 5949-29-1 N° EC: 691-328-9

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

Identified uses: Excipient.

1.3 Details of the supplier of the safety data sheet

Magis-Pharma NV Company:

> 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

Skin Irrit. 2 H315 H319 Eye Irrit. 2 STOT SE 3 H335

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Attention

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.



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H335 May cause respiratory irritation.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.

P264+P265 Wash hands [and ...] thoroughly after handling. Do not touch eyes.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep 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 CENTER/doctor if you feel unwell.

P319 Get medical help if you feel unwell.

P321 Specific treatment (see section 4 on this label).
P332+P317 If skin irritation occurs: Get medical help.

P337+P313 If eye irritation persists: Get medical advice/attention.

P337+P317 If eye irritation persists: Get medical help.

P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to local/regional/national/international regulations.

Additional applicable label

elements:

Not applicable.

2.3 Other hazards

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name: Citric acid monohydrate

IUPAC name: 2-Hydroxypropane-1,2,3-tricarboxylic acid

Synonyms: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate

Anhydrous Citric Acid

Citrate

N° CAS: 5949-29-1
N° EC: 691-328-9
Molecular Formula: $C_6H_8O_7\cdot H_2O$

Content: 99.5 per cent to 100.5 per cent (anhydrous substance)

3.2 Mixtures

Not applicable.



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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes: Consult a doctor. Show the safety data sheet to the doctor on duty.

After inhalation: Remove to fresh air. If breathing is irregular, call a doctor immediately. Only give

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. Remove 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, including under

the eyelids, for at least 15 minutes. Get medical attention.

After ingestion: 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

There are no known relevant acute or delayed effects from exposure to the product.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry powder, carbon dioxide, sand, water fog.

Neighboring fires (fire-exposed containers): Water spray or water fog.

Unsuitable extinguishing media: Direct water jet.

5.2 Special hazards arising from the substance/mixture

Avoid breathing combustion product.

5.3 Advice for firefighters

Surrounding fires: Cool containers with water to prevent decomposition of product and

> development of health hazards. Always use full fire protection. Collect water from which must not enter sewage system. Dispose of contaminated water used for extinguishing and residues in

accordance with current regulations.

Protection against fire: Helmet with visor, flame retardant clothing (jacket and trousers with

> straps around the arms, legs and waist, EN 469), gloves (fireproof and dielectric, EN 659), a mask with face mask covering the whole face of the operator or the car (self protective) in case of large amounts of

smoke, a self-contained breathing apparatus (EN 137).

Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel

Mechanically scoop up spilled product and place in containers for recovery or disposal. Remove residue with water spray if there are no contraindications.

Ensure adequate ventilation of the area affected by the spillage. Check for possible incompatibilities for the material in section 7. Disposal of contaminated material should be in accordance with the provisions of section 13.

For emergency responders

Mechanically scoop up spilled product and place in containers for recovery or disposal. Remove residue with water spray if there are no contraindications.

Ensure adequate ventilation of the area affected by the spillage. Check for possible incompatibilities for the material in section 7. Disposal of contaminated material should be in accordance with the provisions of section 13.

6.2 Environmental precautions

Prevent further leakage or spillage if this can be done safely.

Do not allow product to enter sewage system.

6.3 Methods and material for containment and cleaning up

Mechanically scoop up spilled product and place in containers for recovery or disposal. Remove residue with water spray if there are no contraindications.

Ensure adequate ventilation of the area affected by the spillage. Check for possible incompatibilities for the material in section 7. Disposal of contaminated material should be in accordance with the provisions of section 13.

6.4 Reference to other sections

For exposure control and personal protective measures, see section 8.

For waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling: Avoid formation of dust and aerosols. Avoid exposure - obtain special

instructions before use.

Personal protection: Not available.

Technical protective measures: Adequate extraction should be provided where dust is formed.

Normal fire prevention precautions. Avoid electrostatic charge build-

Not available. Handling:

7.2 Conditions for safe storage, including any incompatibilities

Storage: In an airtight container.

Conditions for safe storage, including any

incompatibilities:

Store only in the original container. Store closed containers in a well-

ventilated area out of direct sunlight.

Storage – away from: Keep containers away from incompatible materials, see section 10.

7.3 Specific end use(s)

Excipient.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not available.

8.2 Exposure controls

Appropriate engineering control

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

Hygiene measures: Handle with proper industrial hygiene precautions, and observe safety practices. Wash hands before breaks and after finishing work.

Individual protection measures

Eye/face protection: Protective face shields and safety goggles according to EN 165, EN 166, EN 167, EN

168.

Skin protection: Choose body protection according to the quantity and concentration of the

hazardous substance in the workplace.

Hand protection: Handle with gloves. The selected protective gloves must comply with the

specifications of EU Directive 89/686/EEC and the derived standards EN 374-1, EN

374-2, EN 374-3, EN 420.

Respiratory protection: Where risk assessment shows that air-purifying respirators are appropriate, use dust

> mask type N95 (USA) or type P1 (EN 149). Use respirators and components tested and approved under appropriate governmental standards such as NIOSH (US) or CEN (EU).

Thermal hazards: Not determined.

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: White or almost white, crystalline powder, colourless crystals or granules.

Odour: Odourless. Odour threshold: Not available. pH: 1,85 (5%, 25 °C)

Melting/freezing point: About 153 °C, with decomposition.

Initial boiling point: Not available. Boiling range: Not available. Not available. Flash point: Evaporation rate: Not available. Not available. Flammability (solid/gas): Upper/lower flammability or Not available.

explosive limits:



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Vapour pressure: Not available.
Vapour density: Not available.
Relative density: Not available.

Solubility: Freely soluble in ethanol (96 per cent).

Solubility in water: Very soluble in water

67,6 % (20 °C)

Partition coefficient Not available.

(n-octanol/water):

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

Explosive properties: Not available.

Oxidising properties: Not available.

9.2 Other information

Molecular weight (g/mol): 210,14

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Not available.

10.4 Conditions to avoid

Not available.

10.5 Incompatible materials

Not available.

10.6 Hazardous decomposition products

Decomposition by heat can produce toxic CO and CO_2 fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Acute toxicity (LD₅₀, mole): 54000 mg/kg

Skin corrosion/irritation: Not available.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory/skin sensitisation: Not available.



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Not available. Germ cell mutagenicity: Carcinogenicity: Not available. Not available. Reproductive toxicity: Summary of evaluation of the Not available.

CMR properties:

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: Not available. Skin contact: Not available. Inhalation: Not available. Ingestion: Not available. Not available. Aspiration:

SECTION 12: ECOLOGICAL INFORMATION

Use in accordance with good working practices, avoiding dispersal of the product into the environment. Notify the competent authorities if the product has reached watercourses or if it has contaminated soil or vegetation.

12.1 Toxicity

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

12.2 Persistence and degradability

Readily biodegradable.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

According to available data, the product does not contain PBT or vPvB substances in concentrations above 0.10 %.

12.6 Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods



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Product: Consider all federal, state and local environmental regulations. Contact a licensed professional waste disposal service for disposal of this material. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

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

The product is not to be considered dangerous according to the applicable regulations on the transport of dangerous goods by road (ADR), rail (RID), sea (IMDG Code) and air (IATA).

14.1 UN Number

ADR/RID(Land),IMDG(Sea),

It is not dangerous in transport.

IATA/ICAO (Air):

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),

IATA/ICAO (Air):

It is not dangerous in transport.

14.3 Transport hazard class(es)

ADR/RID(Land),IMDG(Sea),

IATA/ICAO (Air):

It is not dangerous in transport.

14.4 Packing group

ADR/RID(Land),IMDG(Sea),

It is not dangerous in transport.

IATA/ICAO (Air):

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),

It is not dangerous in transport.

IATA/ICAO (Air) :

14.6 Special precautions for user

It is not dangerous in transport.

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

Not applicable.

14.8 Additional transport information

Not available.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Risk phrases: R36 Irritating to eyes.

Safety phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.



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S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

15.2 Chemical safety assessment

A chemical safety assessment of the product has not been carried out.

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

International Maritime Code for Dangerous Goods IMDG: **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 Bioaccumalative

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.

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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This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information has been compiled from sources considered to be dependable and is accurate to the best of the Magis-Pharma NV's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. Magis-Pharma NV cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

16.8 Department issuing MSDS

Magis-Pharma NV info@magis-pharma.be