UAB Saflora
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SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH)

CITRIC ACID, ANHYDROUS

Issue date: 14-10-2024 Version Nr: 1

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

1.1. Product identifier
Name: **Citric acid, anhydrous**
Registration number (REACH) 01-2119457026-42-xxxx
Index number in CLP Annex VI 607-750-00-3
EC number 201-069-1
CAS number 77-92-9

1.2. Relevant identified uses of the substance or mixture and uses recommended
Relevant identified uses: Professional use
Uses advised against: The product is not intended for consumer use.

1.3. Details of the supplier of the safety data sheet
Company: UAB Saflora
Naugarduko g. 102
Vilnius, LT-03160, Lithuania
Phone: +37062959500 e-mail: info@sapolita.lt
www.sapolita.lt

1.4. Emergency telephone number
Poisoning and Drug information Center: +370 5 236 20 50

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (Hazard class and category, hazard statement)

Eye Irrit. 2, H319
STOT SE 3, H335 - single exposure (respiratory tract irritation)

2.2. Label elements

Symbols:

GHS07

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Signal word: Warning

Hazard statements:
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary statements:
P261 Avoid breathing mist/vapours/spray
P280 Wear protective gloves/eye 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.

2.3. Other hazards:
Results of PBT and vPvB assessment
According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties
Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

SECTION 3: COMPOSITION / INGREDIENT INFORMATION

3.1. Substances
Name of substance: Citric acid
Molecular formula: $C_6H_8O_7$
Molar mass: 192,1 g/mol
REACH Reg. No: 01-2119457026-42-xxxx
CAS No: 77-92-9
EC No: 201-069-1

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General notes:
Take off contaminated clothing.

Following inhalation:
Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact:
Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact:
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion:
Rinse mouth. Call a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed.
Vomiting, Irritation, Cough, Dyspnoea.

4.3. Indication of any immediate medical attention and special treatment needed.
Treatment: None

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media: sand, CO_2 or Dry chemical fire extinguisher.
Extinguishing media which must not be used for safety reasons: water jet.

5.2. Special hazards arising from the substance or mixture.
Hazardous combustion products: carbon monoxide (CO), carbon dioxide (CO_2).

5.3. Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2. Environmental precautions
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

6.3. Methods and material for containment and cleaning up.
Advice on how to contain a spill: Covering of drains. Take up mechanically.
Advice on how to clean up a spill: Take up mechanically. Control of dust.
Other information relating to spills and releases: Place in appropriate containers for disposal.

6.4. Reference to other sections
Hazardous combustion products: see section 5. Personal protective equipment: see section 8.
Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: HADLING AND STORAGE

7.1. Precautions for safe handling

Recommendations: Provision of sufficient ventilation. Avoid dust formation.

Advice on general occupational hygiene: Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities.
Store in a dry place.

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Specific designs for storage rooms or vessels: Recommended storage temperature 15 – 25 °C

7.3. Specific end use(s)
No information available.

SECTION 8: EXPOSURE CONTROLSPERSONAL PROTECTION

8.1. Control parameters
Occupational exposure limit values (Workplace Exposure Limits): this information is not available.

Relevant PNECs and other threshold levels
PNEC 0,44 mg/l aquatic organisms freshwater short-term (single instance)
PNEC 0,044 mg/l aquatic organisms marine water short-term (single instance)
PNEC 1.000 mg/l aquatic organisms sewage treatment plant (STP) short-term (single instance)
PNEC 34,6 mg/kg aquatic organisms freshwater sediment short-term (single instance)
PNEC 3,46 mg/kg aquatic organisms marine sediment short-term (single instance)
PNEC 33,1 mg/kg terrestrial organisms soil short-term (single instance)

8.2. Exposure controls
Appropriate engineering controls: general ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection: wear eye/face protection.

Skin protection: hand protection.
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Type of material. NBR: acrylonitrile-butadiene rubber.
- Material thickness > 0.7 mm.
- Breakthrough times of the glove material > 10 minutes (permeation: level 1).
- Other protection measures. Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.
Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

Environmental exposure controls: use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
Physical state: solid
Form: crystalline
Colour: white
Odour: odourless

Melting point/freezing point: 153 °C (ECHA)
Flammability: this material is combustible, but will not ignite readily
Auto-ignition temperature: not determined
Decomposition temperature: >155 °C
pH (value): 1,6 – 1,8 (in aqueous solution: 100 g/l, 20 °C)
Water solubility: 1.300 g/l at 20 °C
Partition coefficient n-octanol/water (log value): -1,64 (TOXNET)
Vapour pressure 0 Pa at 25 °C
Density 1,67 g/cm³ at 20 °C
Bulk density 500 – 600 kg/m³

9.2. Other information
There is no additional information.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.2. Chemical stability
The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions
Violent reaction with strong oxidisers, metals, reducing agents, strong alkali.

10.4. Conditions to avoid
Keep away from heat. Decompostion takes place from temperatures above: >155 °C.

10.5. Incompatible materials
Metals.

10.6. Hazardous decomposition products
see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Shall not be classified as acutely toxic.

oral LD50 5.400 mg/kg mouse (ECHA)
dermal LD50 >2.000 mg/kg rat (ECHA)

Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin.
Serious eye damage/eye irritation: **Causes serious eye irritation.**
Respiratory or skin sensitisation: Shall not be classified as a respiratory or skin sensitiser.
Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.
Carcinogenicity: Shall not be classified as carcinogenic.
Reproductive toxicity: Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure: **May cause respiratory irritation.**
Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).
Aspiration hazard: Shall not be classified as presenting an aspiration hazard.

11.2. Other toxicological information
There is no additional information.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)
LC50 440 mg/l fish (ECHA) 48 h

12.2. Persistence and degradability
Theoretical Oxygen Demand: 0,7494 mg/mg
Theoretical Carbon Dioxide: 1,374 mg/mg

biotic/abiotic - degradation rate 98 %, 2 d

12.3. Bioaccumulative potential
Does not significantly accumulate in organisms.

n-octanol/water (log KOW) -1,64 (TOXNET)

12.4. Mobility in soil
Data are not available.

12.5. Results of PBT and vPvB assessment
According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6. Other adverse effects
Data are not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information: Do not empty into drains.

Waste treatment of containers/packagings: Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

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SECTION 14: Transport information

14.1. UN number or ID number not subject to transport regulations

14.2. UN proper shipping name not assigned

14.3. Transport hazard class(es): none

14.4. Packing group: not assigned

14.5. Environmental hazards non-environmentally hazardous acc. to the dangerous goods regulations

14.6. Special precautions for user: There is no additional information.

14.7. Maritime transport in bulk according to IMO instruments: The cargo is not intended to be carried in bulk.

14.8. Information for each of the UN Model Regulations: International Maritime Dangerous Goods Code (IMDG) - Additional information
Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information
Not subject to ICAO-IATA.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulation/legislation specific for the substance or mixture
Restrictions according to REACH, Annex XVII: Citric acid >99,5 %, anhydrous substances in tattoo inks and permanent make-up - Restriction R75, 75

15.2. Chemical Safety Assessment
No

SECTION 16: OTHER INFORMATION

There is no additional information.

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.