

## SAFETY DATA SHEET

### CHEMICAL SUBSTANCE / MIXTURE REGULATION (EC) No1907/2006 AS AMENDED BY REGULATION (EU) No 453/2010

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

##### 1.1. Product identifiers

Product names	<b>Citric Acid</b>
Chemical name	Citric acid
Identified uses	Chemical analytics, biochemistry

##### 1.2. Details of the supplier of the safety data sheet

Company	JSC "Medicinos linija"
Address	Karaliaučiaus str. 29 LT-78374 Šiauliai, Lithuania
Telephone	+370 41 553 553
Fax	+370 41 553 551
E-mail address	<a href="mailto:dental@i-dental.lt">dental@i-dental.lt</a>

##### 1.3. Emergency telephone number

Emergency telephone number (Available only during office hours)	+370 41 553 553
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#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Eye Irrit.2

##### 2.1.1. Label elements

###### Pictogram



###### Signal word

Warning

###### Hazard statement

H319: Causes serious eye irritation

###### Precautionary statement (Prevention)

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

###### Precautionary statements (Response)

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

###### Other hazards

Odourless

#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

##### 3.1. Components of the mixture:

Name	CAS No	EC No	Hazard statement	Content, %
Citric acid	77-92-9	201-069-1	H319	40
Deionized water	-	-		60

#### SECTION 4: FIRST AID MEASURES

##### 4.1. General advice

Immediate medical attention is not required. In doubt, consult a physician. Show this safety data sheet to the doctor in attendance.

##### 4.2. If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### 4.3. In case of eye contact

Rinse thoroughly with plenty of cold water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists, eye pain, experience other negative symptoms – consult a physician.

##### 4.4. Ingestion

Never give anything by mouth to an unconscious person. If person is conscious - drink plenty of water. Do not induce vomiting. Consult a physician if necessary.

##### 4.5. In case of skin contact

Wash off with soap and plenty of cold water. Consult a physician if necessary.

**4.6. Most important symptoms and effects, both acute and delayed**

Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant, sensitizer), of ingestion. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Vomiting, diarrhoea, damage to tooth enamel, dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.7. Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5: FIRE FIGHTING MEASURES****5.1. Extinguishing media**

Use water, water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2. Advice for fire fighters**

Standard procedure for chemical fires.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not let product enter drains.

**6.3. Methods and materials for containment and cleaning up**

Use personal protective equipment when cleaning. Diluting with water. Collecting using sorbent. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**

For disposal see section 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Avoid contact with eyes. Use personal protective equipment.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep Mixture in original package, tightly closed in a dry and well-ventilated place. Do not store with oxidizing agents, bases, reducing agents.

**7.3. Specific end uses**

Chemical analytics.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1. Exposure limit values**

No exposure guidelines have been established. ACGIH, NIOSH and OSHA have not developed exposure limits for this product.

**8.2. Exposure controls**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**8.3. Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.4. Personal protective equipment****8.4.1. Eye/face protection**

Wear eye / face protection Equipment. Safety glasses with side-shields, conforming to EN 166.

**8.4.2. Hand protection**

Handle with gloves.

**8.4.3. Skin protection**

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**8.4.4. Respiratory protection**

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. General information**

Appearance	Liquid
Colour	Clear
Odour	Odourless

**9.2. Important health, safety and environment information (anhydrous substance)**

pH	no data available
Melting point/range	no data available
Initial boiling point and boiling range	no data available

Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Vapour pressure	not applicable
Vapour density	no data available
Relative density	no data available
Water solubility	soluble

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Stability

Stable.

### 10.2. Conditions to avoid

Reaction with caustic can lead high temperature (exothermic).

### 10.3. Materials to avoid

Oxidizing agents, bases, reducing agents, metals, nitrates.

### 10.4. Hazard decomposition products

Methyl maleic anhydride.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Possible dangerous to health effects

**Inhalation.** May be harmful if inhaled vapour. May cause respiratory tract irritation.

**Ingestion.** May be harmful if swallowed.

**Skin.** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes.** Causes serious eye irritation.

### 11.2. Signs and Symptoms of Exposure

Vomiting, diarrhoea, damage to tooth enamel, dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### 11.3. Toxicity

No data available.

### 11.4. Carcinogenicity

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### 11.5. Additional Information

RTECS: GE7350000.

LC (50) = 11.7 g/kg rat (anhydrous citric acid).

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Ecotoxicity

Toxicity to fish

Low toxicity to fish

### 12.2. Mobility

No data available

### 12.3. Persistence and degradability

Biodegradable. BDS = 0.24 p/p; ChDS = 0.35 p/p

### 12.4. Bio accumulative potential

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product. Do not remove the information from package. Manage waste as required by regulatory requirements.

## SECTION 14: TRANSPORT INFORMATION

14.1. Not subject to transport regulations.

## SECTION 15: REGULATORY INFORMATION

15.1. This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006 as amended by Regulation (EU) No 453/2010

15.2. Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances

15.3. This safety data sheet information is not a professional risk assessment.

### 15.4. Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

### 15.5. Chemical Safety Assessment

No data available.

### 15.6. Health, safety and environmental information

No data available.

**SECTION 16: OTHER INFORMATION**

- 16.1. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.
- 16.2. UAB „Medicinos linija“ shall not be held liable for any damage resulting from handling or from contact with the above product.
- 16.3. The product should not be used for purposes other than specified in p.7.3 purposes.
- 16.4. User is responsible for the legal, regulatory compliance.
- 16.5. Abbreviations and acronyms used in the safety data sheet:
- 16.5.1. EC – European Commission
  - 16.5.2. EEC – European Economic Community
  - 16.5.3. EU – European Union
  - 16.5.4. GHS – Globally Harmonized System
  - 16.5.5. CLP – Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
  - 16.5.6. CAS No – Chemical Abstracts Service number
  - 16.5.7. EC No – EINECS and ELINCS Number (see also EINECS and ELINCS)
  - 16.5.8. EINECS – European Inventory of Existing Commercial Substances
  - 16.5.9. ELINCS – European List of notified Chemical Substances
  - 16.5.10. EN – European Standard
  - 16.5.11. NIOSH - National Institute for Occupational Safety and Health
  - 16.5.12. IARC – International Agency for Research on Cancer
  - 16.5.13. PBT - Persistent, Bio accumulative and toxic substance
  - 16.5.14. VPvB – Very Persistent and Very Bio accumulative
  - 16.5.15. ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road
  - 16.5.16. RID – Regulations concerning the International Carriage of Dangerous Goods by Rail
  - 16.5.17. UN – United Nations
  - 16.5.18. IMDG – International Maritime Dangerous Goods
  - 16.5.19. ICAO-TI – Technical Instructions for the Safe Transport of Dangerous Goods by Air
  - 16.5.20. IATA-DGR – International Air Transport Association Dangerous Goods Regulations
  - 16.5.21. LC50 – Lethal Concentration to 50 % of a test population
  - 16.5.22. LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose)
- 16.6. Key literature references and sources for data: <http://echa.europa.eu>.
- 16.7. List of relevant hazard statements, safety phrases and/or precautionary statements full text:
- Signal word: Warning**
- H319: Causes serious eye irritation
- P264: Wash root canal and 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
- Odourless
- 16.8. Training advice: How to properly handle chemical substances / mixtures employees must be trained in accordance with national requirements.