

Safety Data Sheet

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SECTION 1: Identification

1.1. Identification

Product name : Citric Acid (Monohydrate)

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3. Supplier

FARSA Group Ltd

Sales@farsagroup.az

1.4. Emergency contacts

Emergency number : +994512707856

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Eye irritation, category 2 : H319 STOT-single exposure, category 3, : H335 respiratory system

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Pictogram

Hazard statements

V

Signal word : Warning

: H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statements : P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.

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

P280 Wear eye protection/ face protection.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER/ doctor if you feel unwell.

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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information : The substance/mixture does not contain components considered to have endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Component		Classification	Concentration			
Citric Acid Monohydrate						
CAS-No.	5949-29-1	Eye Irrit. 2; STOT SE 3;H319, H335	<= 100 %			
EC-No.	201-069-1	Пооб				

SECTION 4: First-aid measures

4.1. Description of first aid measures

No data available.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

No data available.

5.2. Special hazards arising from the substance or mixture

Carbon oxides Combustible.

5.3. Advice for firefighters

No data available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

6.2. Environmental precautions

No data available.

6.3. Methods and materials for containment and cleaning up

No data available.

6.4. Reference to other section

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

This information is not available.

8.2. Exposure controls

Personal protective equipment

Control of environmental exposure

Skin protection

: This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves.

: Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Crystalline	Flammability (solid, gas)	No data available
Colour	White	Upper/lower flammability or exp. lim.	No data available
Odour	Odourless	Flash point	173,9 °C - closed cup
Melting point/range	135 - 152 °C	Autoignition point	No data available
Initial boiling point/range	(decomposition)	Decomposition temperature	> 170 °C

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рН	1,8 at 50 g/l at 20 °C	Density	1,54 g/cm3 at 20 °C
Viscosity kinematic	No data available	Relative density	No data available
Viscosity dynamic	No data available	Relative vapour density	No data available
Solubility	ca.880 g/l at 20 °C	Particle characteristics	No data available
Partition coefficient	log Pow: -1,72 at 20 °C	Oxidizing properties	None
Vapour pressure	< 0,01 hPa at 25 °C	Explosive properties	No data available

Other information

Relative vapour : 7,26 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. **Chemical stability**

No data available.

Possibility of hazardous reaction

Violent reactions possible with: Metals, Oxidizing agents, Bases, Reducing agents

10.4. **Conditions to avoid**

No data available.

Incompatible materials 10.5.

No data available.

Hazardous decomposition products

In the event of fire: see section 5

Skin corrosion/irritation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure Aspiration hazard

Serious eye damage/irritation

Respiratory or skin sensitisation

SECTION 11: Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

: LD50 Oral - Mouse - male and female - 5.400 mg/kg (OECD Test Guideline 401)

Remarks: The value is given in analogy to the following substances: citric acid Inhalation: No

LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402) Remarks: The value is given in analogy to the following substances: citric acid

Skin - Rahhit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

Remarks: The value is given in analogy to the following substances: citric acid

Eves - Rabbit

Result: Irritating to eyes. (OECD Test Guideline 405)

Remarks: The value is given in analogy to the following substances: citric acid

Remarks: (ECHA)

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation Method: OECD Test Guideline

Result: negative

Remarks: The value is given in analogy to the following substances: citric acidTest Type:

Mutagenicity (mammal cell test): micronucleus.

Test system: Human lymphocytes

Metabolic activation: without metabolic activation Method: OECD Test Guideline 487

Remarks: The value is given in analogy to the following substances: citric acid Test Type:

Chromosome aberration test

Species: Rat

Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 475 Result: negative

Remarks: The value is given in analogy to the following substances: citric acid

Test Type: dominant lethal test Species: Rat

Application Route: Oral

Method: Regulation (EC) No. 440/2008, Annex, B.22 Result: negative

Remarks: The value is given in analogy to the following substances: citric acid

No data available.

No data available.

Inhalation - May cause respiratory irritation.

Remarks: The value is given in analogy to the following substances: citric acid

No data available.

No data available.

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11.2. Endocrine disrupting properties

Assessments

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to algae

Toxicity to fish : LC50 - Leuciscus idus (Golden orfe) - 440 - 760 mg/l - 96 h

Remarks: (IUCLID)

The value is given in analogy to the following substances: citric acid

: IC5 - Scenedesmus quadricauda (Green algae) - 640 mg/l - 7 d Remarks: (maximum

permissible toxic concentration)(Lit.)
The value is given in analogy to the following substances: citric acid (Citric acid

monohydrate)

Toxicity to bacteria : Remarks: (maximum permissible toxic concentration) (Lit.)

The value is given in analogy to the following substances: citric acid (Citric acid

monohydrate)

12.2. Persistence and degradability

Biodegradability : aerobic - Exposure time 28 d

Result: 97 % - Readily biodegradable.

(OECD Test Guideline 301B)

Remarks: The value is given in analogy to the following substances: citric acid

Biochemical Oxygen Demand (BOD) 526 mg/g Remarks: (IUCLID) Chemical Oxygen Demand (COD) 728 mg/g Remarks: (IUCLID)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No data available.

SECTION 14: Transport information

14.1. UN number

Not subject to transport regulations.

14.2. UN proper shipping name

Not dangerous goods.

14.3. Transport hazard class(es)

None.

14.4. Packing group

None.

14.5. Environmental hazards

No.

14.6. Special precautions for user

No data available.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

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