

SAFETY DATA SHEET

(RG, 13.12.2014, No-29204) It complies with the Regulation on Safety Data Sheets on Hazardous Substances and Mixtures.

Substance/Mixture Name	Citric Acid Monohydrate	Regulation Date	20.01.2025
		Editing Date	
Form No	032.700.60	Number Of Editing	1

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

1.1 Product Identifier

Product Name : [Citric Acid Monohydrate](#)
 Form No/GBF No : 032.700.60
 Brand : [Tito](#)
 E Code : No additional information available.
 EC No : 201-069-1
 CAS No : 5949-29-1
 Country of Origin : Türkiye (The origin of the main component is different from the origin of the final product).
 Functional Class : Acids and Acidity Regulators, Antioxidants, Metal Binders
 Source : Citrus fruits

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

Identified uses : Manufacturing of products in food and various industries.
 Foods that can be added : It is used in permitted finished products, taking into account the relevant limitations, in accordance with the regulations in the Turkish Food Codex, Food Additives Regulation and vertical communiqué. If the food laws are not explained enough, please apply to the Food Law Authorities in your country.
 Uses advised against : No additional information available.

1.3 Details of the supplier of the tds Identification of the company

Name of Food Manufacturer : Smart Kimya Ticaret ve Danışmanlık Limited Şirketi
 Address of Food Manufacturer : 3AO, 8901/3 Street, Balatçık Neighborhood, Ege Industrial Site, Çiğli/İzmir
 Central Address : 10016 Street No:18 AOSB Çiğli/İzmir
 Manufacturer Registration Number : TR-35-K-047442
 Telephone : 0850 441 00 22
 Email Address : s@hammaddeler.com
 Websites : hammaddeler.com - gbf.com.tr

1.4 Emergency Phone Number

National Toxic Information Center (UZEM): 114

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of Substance and Mixture

Classification according to Regulation (EC) No 28848/2013

Eye Irrit. (Category 2),H319
 STOT SE (Category 3),H335

2.2 Label elements

Labelling according Regulation (EC) No 28848/2013

Pictogram



:
 : Warning

Signal word (SEA)

Hazard Statements (SEA)

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

Precautionary statement(s)

P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 : Wash 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.
 P312 : Call a POISON CENTER/doctor if you feel unwell.
 P337+P313 : If eye irritation persists: Get medical advice/attention.
 Supplemental Hazard Statements : None

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2.3 Other hazards

Results of PBT and vPvB assessment

PBT: No PBT.

vPvB: No vPvB.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component Name	EC No	CAS No	Concentration (%)	(RG, 11.12. 2013, No 28848) Classification in accordance with the "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" (SEA)
Citric Acid Monohydrate	201-069-1	5949-29-1	>=99.5%	Eye Irrit.2,H319; STOT SE 3,H335

3.2 Mixtures

Not applicable.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Following inhalation

Move patient to fresh air, if symptoms persist consult a doctor.

In case of skin contact

Immediately rinse with water. If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Following ingestion

Rinse out mouth and then drink plenty of water. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Severe eye irritation. Cough.

Risks : Causes serious eye irritation. May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media

Water with full jet.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide (CO₂)

Carbon monoxide (CO)

5.3 Advice for firefighters

Wear fully protective suit. Wear self-contained respiratory protective device.

5.4 Additional information

No additional information available.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment. Keep unprotected persons away. Avoid inhaling dust and fumes. Avoid contact with skin and eyes.

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for containment and cleaning up

Send for recovery or disposal in suitable receptacles. Non-sparking tools should be used. Retrieve the product by mechanical means.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from sources of ignition. Prevent formation of dust. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles

Store in a dry, cool and well-ventilated area. Keep container tightly closed. Provide acid-resistant floor.

Information about storage in one common storage facility

Store away from strong bases and oxidizing agents.

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

Components with Workspace Control Parameters

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PNEC	0,44 mg/L (Water (Freshwater))
	0,044 mg/L (Water (Marine Water))
	>1.000 mg/L (Sewage Treatment Plant (STP))
PNEC	3,46 mg/kg sedim. dw (Sediment (Marine Water))
	34,6 mg/kg sedim. dw (Sediment (Freshwater))
PNEC	33,1 mg/kg (Soil)

8.2 Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

General protective and hygienic measures

Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin.

Eye/face protection

Use safety goggles (EN 166). Have an eye wash station available.

Hand protection

Use protective gloves.

Body Protection

Protective work clothing.

Respiratory protection

In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter P2

8.2.3. Environmental exposure controls

Avoid the release of the product into the environment. Comply with local and national law.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Solid, Crystalline
Colour	: White
Odour	: Odourless
pH	: No additional information available
Water Solubility(20°C)	: 592 g/l
Initial boiling point and boiling range	: Decomposes before boiling.
Decomposition temperature	: >175 °C
Melting point/Freezing point	: 153 °C
Flash Point	: No additional information available
Evaporation Rate	: No additional information available
Vapor Pressure(25 °C)	: 2.2E-6 Pa
Relative density(20°C)	: 1.665
Flammability	: No additional information available
Explosive properties	: Product does not present an explosion hazard.
Oxidising properties	: Not oxidising.
Particle characteristic	: 12-40 µm, 30-100 µm, 60 mesh

9.2 Other information

No additional information available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional information available.

10.2 Chemical stability

Stable under normal circumstances.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flames.

10.5 Incompatible materials

Strong bases

Oxidizing agents

10.6 Hazardous decomposition products

Carbon dioxide

Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxic Effects

Acute toxicity

Oral LD50 5,400 mg/Kg bw (Mouse) (OECD 401)

Inhalation LD50 >2,000 mg/Kg bw (Rat) (OECD 402)

Serious eye damage/irritation

Causes serious eye irritation.

Skin corrosion/irritation

No additional information available.

Respiratory or skin sensitization

No additional information available.

Germ cell mutagenicity

No additional information available.

Carcinogenicity

No additional information available.

Reproductive toxicity

No additional information available.

Specific target organ toxicity – Single exposure



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May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No additional information available.

Aspiration Toxicity

No additional information available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC50/48h 440 mg/L (Fish) (OECD 203)

NOEC 425 mg/L (Algae)

LC50/24h 1,535 mg/L (Daphnia Magna)

12.2 Persistence and degradability

Readily biodegradable.

12.3 Bioaccumulative potential

Does not accumulate in organisms.

12.4 Mobility in soil

pKa: 3.13, 4.76 and 6.4 at 25°C

12.5 Results of PBT and vPvB assessment

PBT: No PBT.

vPvB: No vPvB.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

No additional information available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Disposal must be made in accordance with official regulations.

Contaminated packaging

Packaging that may not be cleansed must be disposed of in the same manner as the product.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number or ID number

ADR (Road)/RID (Rail) : Not regulated

IMDG (Seaway) : Not regulated

IATA (Airline) : Not regulated

14.2. UN proper shipping name

ADR (Road)/RID (Rail) : Not regulated

IMDG (Seaway) : Not regulated

IATA (Airline) : Not regulated

14.3. Transport hazard class(es)

ADR (Road)/RID (Rail) : Not regulated

IMDG (Seaway) : Not regulated

IATA (Airline) : Not regulated

14.4. Packing group

ADR (Road)/RID (Rail) : Not regulated

IMDG (Seaway) : Not regulated

IATA (Airline) : Not regulated

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14.5. Environmental hazards

ADR (Road)/RID (Rail) : Not regulated
 IMDG (Seaway) : Not regulated
 IATA (Airline) : Not regulated

14.6. Special precautions for user

No additional information available.

14.7. Bulk transportation according to MARPOL 73/78 annex II and IBC code

No additional information available

SECTION 15. REGULATORY INFORMATION

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

- Regulation on Classification, Labeling and Packaging of Substances and Mixtures (SEA) published in the Official Gazette dated December 1, 2013, bis numbered 28848.
 -Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (KKDIK) published in the Official Gazette dated June 23, 2017 and numbered 30105.

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. OTHER INFORMATION

Waiver Statement

The information presented in this safety data sheet is based on the information we already have. Although the information is reliable, it should not be considered accurate and complete. The prepared safety data sheet does not constitute a guarantee and should be used as a guide. This information has been prepared specifically for the substance or mixture in question, and may not be valid for compounds and processes made with other substances. and may vary depending on other raw materials; For this reason, the person or institution purchasing the products freely decides to use the product after evaluating its suitability for its own use, its impact on environmental conditions, its effects on occupational health and safety. Hammaler.com, Smart Kimya Tic. and Dan. Ltd. Şti., our representatives and solution partners cannot be held responsible for the use of this information.

