

This document has been prepared in accordance with the provisions of Annex II Regulation of the Turkish R&D Authority, numbered 30105 and dated 23.06.2017.

1.1. Substance/Mixture Identity

Product name

Citric Acid Monohydrate - CNPC Approved Water Conditioning Reagent

Designated uses: Industrial

water conditioner, pH regulator, descaling agent, chelating and cleaning chemical.

Industrial

Professional

Consumer



Company Name

SOZAL CHEMICAL INDUSTRY AND TRADE INC.

Address

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Country

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(TR)

Türkiye

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Please consult for urgent information.

Tel: +0902243315153

National Poison Control Center (UZEM): 114

2.1. Classification of the substance or mixture

The product is classified as a hazard under the provisions of Regulation 28848/2013 (TC) SEA.

Classification and identification of hazards:

Severe Eye Damage, Category 2A

H319

Specific Target Organ Toxicity,

(Single Exposure - Respiratory Irritation), Category 3

H335

2.2. Label elements

Hazard labels according to Regulation 28848/2013 (TC) SEA and subsequent amendments and adaptations.

Hazard Signs: GHS07 (Exclamation Mark)



Warning Word:

Attention

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	CITRIC ACID MONOHYDRATE		
This Safety Data Sheet has been prepared in accordance with the provisions of the Regulation No. 30105, Annex II of the KKDýK (Turkish Regulation on the Protection of Natural Resources and Chemical Products).			
SECTION 2. Hazard identification ... / >>			
Hazard Statements: H319 It causes serious eye irritation. H335 It can cause respiratory tract irritation.			
Precautionary statements: P261 Avoid inhaling its dust/vapor/gas/mist. P264 Wash hands and skin thoroughly with water after handling. P280 Use protective gloves, protective clothing, eye protection, and face protection. P304+P340 IF INHALED: Move the affected person to fresh air and ensure they are comfortable in a position where they can breathe easily. Continue with P305+P351+P338. IF IN CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove contact lenses, if any, and rinse afterwards. P312 If you feel unwell, call UZEM (114) or a doctor. P337-313 If eye irritation persists: Seek medical advice/attention.			
2.3. Other damages			
Based on currently available information, the product does not contain ý 0.1% PBT or vPvB substances. The product does not contain substances with endocrine-disrupting properties at concentrations ý 0.1%.			
SECTION 3. Composition/Information about ingredients.			
3.1. Articles			
Irrelevant information			
3.2. Mixtures			
Product Form Verification: The product form has been verified by CNPC as Monohydrate (Structure containing crystal water).			
Contents: Introduction: Citric Acid Monohydrate (C6H8O7•H2O) Conc. %:x >= 99.5 CAS No: 5949-29-1 EC No: 201-069-1 Classification 28848/2013 (TC) SEA Regulation: Eye Irritation. 2A H319, STOT SE 3 H335 Moisture (Including Crystal Water and Free Moisture) Concentration %: x ý0.5 (Free Moisture Limit) CAS No 7732-18-5 Exposed Impurities and Iron Limits - Sulfate (SO4²) : <= 0.010% - Chloride (Cl): <= 0.005% - Oxalate: <= 0.015% - Water Insoluble Matter: <= 0.020% - Easily Carbonizable Substances: <= 0.350% - Sulfated Ash: <= 0.050% Classification 28848/2013 (TC) SEA Regulation: Not classified			

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CHAPTER 4. First aid measures.			
4.1. Description of first aid measures			
RESPIRATORY: Move the person to fresh air. Seek medical advice/assistance if coughing or respiratory irritation persists. INGESTION: Seek medical advice/assistance. Rinse mouth with water. Do not induce vomiting. If the person is unconscious, do not give anything by mouth. SKIN CONTACT: Wash with plenty of water and soap. Clean contaminated clothing. If irritation persists, consult a doctor. EYE CONTACT: To avoid mechanical scratching from dust particles, do not rub the eyes. Keep eyelids open and rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if wearing them. If irritation persists, consult an ophthalmologist. .			
4.2. Acute and delayed significant symptoms and effects: Severe redness, tearing, and irritation of the eyes; coughing and sneezing in the upper respiratory tract due to dust exposure.			
4.3. First signs that require medical intervention and specialized treatment. Apply symptomatic treatment.			
CHAPTER 5. Firefighting measures.			
5.1. Fire extinguishers			
SUITABLE FIRE EXTINGUISHING AGENTS Commonly used types of fire extinguishing equipment include: water spray, carbon dioxide, foam, and dry chemical powder. UNSUITABLE EXTINGUISHING AGENTS: There is no particularly unsuitable equipment.			
5.2. Specific hazards arising from the substance or mixture			
HARMFUL EFFECTS OF EXPOSURE IN CASE OF FIRE: The product itself is not easily flammable. However, if dispersed in the air as a fine powder, it may create a potential dust explosion due to static electricity. If it decomposes under fire or excessive heat, it may release carbon oxide (CO, CO2) fumes. Avoid inhaling combustion products.			
5.3. Recommendations for firefighting teams			
GENERAL INFORMATION Considering the product's potential for violent reaction with water, cool the containers from the outside with a water spray. Absolutely prevent the extinguishing water from flowing into the sewage system. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING TEAMS: Self-contained open-circuit compressed air breathing apparatus (EN 137), fully alkali and abrasion-resistant protective clothing (EN 469), protective gloves (EN 659). .			

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CHAPTER 6. Measures against accidental release.			
6.1. Personal precautions, protective equipment and emergency procedures			
Avoid dust generation. Wear a dust mask and protective safety glasses. Use appropriate protective equipment (section 8) to prevent contamination of skin, eyes and personal clothing.			
6.2. Environmental measures			
Prevent the product from entering sewage systems or mixing with surface water sources in large quantities.			
6.3. Methods and materials for containment and cleaning.			
Sweep or vacuum up any leaking/dripping dry powder into closed containers without raising it into the air. Clean the area. Dispose of aqueous solutions with an absorbent material. Collect and neutralize the contaminants, then transfer them to suitable containers. Ventilate the area.			
6.4. References to other sections			
Information regarding personal protection and disposal is provided in sections 8 and 13.			
SECTION 7. Handling and storage			
7.1. Precautions for safe handling			
7.1. Precautions for safe handling: Prevent dust from rising and accumulating. Ensure adequate ventilation. Avoid eye contact. Do not eat or drink during use. Wash your hands after use.			
7.2. Conditions for secure storage, including disputes.			
Keep the product in its tightly closed original packaging. Store in a cool, dry, well-ventilated place, as it may lose its crystal water in dry air or clump together in humid air. Keep away from strong oxidizers, bases, and metal nitrates.			
7.3. Specific end-use(s)			
. Specific end use(s)			
SECTION 8. Exposure controls/personal protection			
8.1. Control parameters			
Regulatory references: Turkish Regulation on Health and Safety Measures in Working with Chemical Substances, dated 12.08.2013 / 28733.			
Limit values for general organic powders: TWA: 10 mg/m3.			
8.2. Exposure controls HAND			
PROTECTION: It is recommended to use standard protective nitrile or rubber gloves (EN 374).			
SKIN PROTECTION: Standard work attire and a suitable work apron.			
EYE PROTECTION: Dustproof safety glasses are mandatory (EN 166).			
RESPIRATORY PROTECTION: If dust concentrations are high, dust masks with P2 particle filters conforming to EN 149 standard should be used.			

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CHAPTER 9. Physical and chemical properties			
9.1. Information about basic physical and chemical properties			
Features		Valence	
Physical Condition		Solids (Colorless crystals or white crystalline powder)	
Colour		White / Colorless	
Smell		Odorless	
Melting point/freezing point		~ 100°C (begins with crystal water loss)	
Initial boiling point		Not available (decomposes without melting)	
Flammability		Not available	
Lower explosive limits		Not available	
Upper explosive limits		Not available	
Flash point		Not available	
Flash point		Not available	
Decomposition		> 170°C	
temperature pH (in 1% aqueous solution):		1.5-2.5	
Kinematic viscosity,		Not available	
solubility.		Completely soluble in water	
Coefficient of distribution: n-octanol/water		log Pow: -1.72 (20°C, anhydrous basis)	
Vapor pressure		Not available	
Density and/or Relative Density		~ 1.54 g/mL	
Relative vapor density		Not available	
Particle properties		Applicable (in crystal powder form)	
9.2. Other information			
9.2.1. Information on physical hazard classes: No information available.			
9.2.2. Other safety features: Citric acid content >= 99.5%, Moisture <= 0.5%. The amount of water-insoluble matter is <= 0.020%. Oxalate <= 0.015%, Ash <= 0.050%.			
CHAPTER 10. Stability and Reactivity			
10.1. Reaction			
It can form explosive mixtures (dust explosions) with air under intense heating. It reacts with strong bases.			
10.2. Chemical stability			
It is chemically stable under standard ambient conditions (room temperature).			
10.3. Possibility of harmful reactions			
Uncontrolled contact with strong oxidizing agents, bases, and reducing agents can generate heat.			
10.4. Situations to avoid			
High temperatures, humid air (which causes clumping), and dust accumulation.			
10.5. Substances to avoid			
Strong bases (NaOH, KOH, etc.), strong oxidizers, metal nitrates, and alkali metals.			
10.6. Hazardous decomposition products:			
Carbon monoxide and carbon dioxide gases are produced during thermal decomposition.			
EPY 11.5.2 - SDS 1004.14			

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CHAPTER 11. Toxicological information					
11.1. Information about toxic effects					
<u>ACUTE TOXICITY:</u>					
It has a low toxicity level (Oral LD50, rat: >3000 mg/kg).					
<u>SKIN ABRUPTION / SKIN IRRITATION:</u>					
It does not meet the classification criteria (May cause mild dryness).					
<u>SERIOUS EYE DAMAGE / EYE IRRITATION:</u>					
It causes serious eye irritation (H319).					
<u>RESPIRATORY TRACT OR SKIN SENSITIZATION:</u>					
It does not meet the classification criteria.					
<u>SEX CELL MUTAGENICITY:</u>					
It does not meet the classification criteria. Use the code carefully.					
<u>CARCINOGENICITY:</u>					
It does not meet the classification criteria. -					
<u>REPRODUCTIVE TOXICITY:</u>					
It does not meet the classification criteria. -					
<u>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:</u>					
May cause respiratory irritation (H335).					
<u>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:</u>					
It does not meet the classification criteria (Prolonged contact may damage tooth enamel).					
<u>HARMFUL ASPIRATION:</u>					
It does not meet the classification criteria. -					
11.2. Information about other hazards.					
The product does not contain substances with endocrine-disrupting properties.					

EPY 11.5.2 - SDS 1004.14

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CHAPTER 12. Ecological Information			
12.1. Toxicity			
: It is not toxic to aquatic organisms (LC50 - Leuciscus idus: 440 mg/l/48h). However, untreated spills may cause a local pH drop.			
12.2. Persistence and degradability			
It is readily biodegradable (showing 97% degradation in 28 days according to OECD 301B).			
12.3. Bioaccumulation potential			
There is no bioaccumulation potential.			
12.4. Mobility in soil			
It has high mobility because it dissolves completely in water.			
12.5. Results of PBT and vPvB evaluation			
It does not contain more than 0.1% PBT or vPvB substances.			
12.6. Endocrine disrupting properties			
Endocrine disrupting properties: Does not contain substances with endocrine disrupting properties.			
12.7. Other adverse effects.			
No information available.			
SECTION 13. Disposal Information			
13.1. Waste processing methods			
If possible, reuse it. This should be done by delivering it to a licensed disposal or recycling company as non-hazardous special waste in accordance with waste management regulations. Do not mix with household waste.			
CONTAMINATED PACKAGING: Empty packaging should be sent to recycling or disposal facilities in accordance with local waste regulations.			
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CHAPTER 14. Transportation Information					
It does not fall into the dangerous goods category according to international transport regulations (ADR, RID, IMDG, IATA). It does not have a UN number. It can be transported safely.					
UN number					
UN number: not applicable					
14.1. Appropriate UN shipping name					
not applicable					
14.3. Transportation hazard class(es): not applicable					
14.4. Packaging group: not applicable					
14.5. Environmental hazards: not applicable.					
14.6. Special precautions for the user					
Transport in closed containers, protecting from moisture and direct wetness.					
CHAPTER 15. Regulatory information					
15.1. Safety, health and environmental regulations specific to the substance or mixture.					
Classified and labeled in accordance with the provisions of the KKDyK Regulation No. 30105 dated 23/06/2017 and the SEA Regulation No. 28848 dated 11/12/2013:					
15.2. Chemical safety assessment					
No chemical safety assessment has been carried out for the mixtures.					
EPY 11.5.2 - SDS 1004.14					

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CHAPTER 16. Other Information

The full text of the (H) hazard codes specified in sections 2 and 3 of the Form is as follows:

H319 Causes serious eye irritation. H

335 May cause respiratory tract irritation.

The product's monohydrate form has been certified by CNPC technical approval mechanisms. It is intended for use in industrial water treatment and conditioning processes only.

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