

SDS no. AL1VG0HX • Version 1.0 • Date of issue: 2025-10-06

## **SECTION 1: Identification**

#### **GHS Product identifier**

Product name CITRIC ACID Monohydrate

Other means of identification

Product Code

Citric Acid Monohydrate BP CP014
Citric Acid Monohydrate LR CL014
Citric Acid Monohydrate AR CA014

#### Recommended use of the chemical and restrictions on use

Preparation of citrates, flavoring extracts, confectionary, soft drinks, effervescent salts; acidifier, dispersing agent; medicines; acidulant and antioxidant in foods, sequestering agent, water-conditioning agent and detergent builder; cleaning and polishing stainless steel and other metals; alkyd resins; mordant; removal of sulfur dioxide for smelter waste gases, abscission of citrus fruit in harvesting; cultured dairy products, buffer solutions, pharmaceutical syrups, analytical chemistry and laboratory reagent.

## Supplier's details

Name ChemSupply Australia Pty Ltd

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**Emergency phone number** 

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

## **SECTION 2: Hazard identification**

### **General hazard statement**

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

## Classification of the substance or mixture

### GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 2A

## GHS label elements, including precautionary statements

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## **Pictograms**



Signal word Warning

**Hazard statement(s)** 

H319 Causes serious eye irritation

**Precautionary statement(s)** 

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.

P337+P313 If eye irritation persists: Get medical advice/attention.

# **SECTION 3: Composition/information on ingredients**

#### **Mixtures**

Molecular weight	210.14

Component	Identification	Weight %	Classifications
Citric acid monohydrate	CAS no.: 5949-29-1 EC no.: 201-069-1	100 %	CLASSIFICATIONS: Eye damage/irritation, Cat. 2A. HAZARDS: H319 - Causes serious eye irritation.

## **SECTION 4: First-aid measures**

## **Description of necessary first-aid measures**

General advice First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled, remove from contaminated area to fresh air immediately. Apply

artificial respiration if not breathing. If breathing is difficult, give oxygen. Get

medical aid if cough or other symptoms appear.

In case of skin contact Rinse with plenty of water. Get medical attention if irritation develops and

persists.

In case of eye contact If contact with the eye(s) occurs, wash with copious amounts of water for

approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs,

obtain medical attention.

If swallowed Rinse mouth thoroughly with water immediately, repeat until all traces of product

have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects

persist.

## Most important symptoms/effects, acute and delayed

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

Indication of immediate medical attention and special treatment needed, if necessary

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For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

## **SECTION 5: Fire-fighting measures**

#### Suitable extinguishing media

Small fire: Use dry chemical, CO2, water spray or foam.

Large fire: Use water spray, fog or foam.

#### Specific hazards arising from the chemical

May liberate toxic fumes in fire including carbon oxides.

## Special protective actions for fire-fighters

Wear SCBA and structural firefighter's uniform.

## **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

## Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.

## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

## **SECTION 8: Exposure controls/personal protection**

## **Appropriate engineering controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

## Individual protection measures, such as personal protective equipment (PPE)

#### **Eye/face protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

## Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

### **Body protection**

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

### **Respiratory protection**

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If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

# **SECTION 9: Physical and chemical properties**

## Basic physical and chemical properties

Appearance Colourless, translucent crystals or white powder.  Color No data available.  Odor Odourless.  Odor threshold No data available.  Melting point/freezing point 135-152 °C  Boiling point or initial boiling point and boiling range  Flammability No data available.  Lower and upper explosion limit/ flammability limit  Flash point 173.9 °C (C.C.)  Explosive properties No data available.  Auto-ignition temperature No data available.  Decomposition temperature No data available.  Oxidizing properties No data available.			
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Auto-ignition temperature  No data available.  Decomposition temperature  No data available.			
Decomposition temperature No data available.			
Oxidizing properties No data available.			
pH 1.85 (50 g/l, H20, 25 °C)			
Kinematic viscosity No data available.			
Solubility Solubility in Water: Soluble (1630 g/L @ 20 °C) Solubility in Very soluble in alcohol. Soluble in ether.	n Organic Solvents:		
Partition coefficient n-octanol/ log P(o/w): -1.72 (20 °C)(anhydrous substance) water (log value)			
Vapor pressure <0.1 hPa (20 °C) (anhydrous substance)			
Evaporation rate No data available.			
Density and/or relative density Specific Gravity: 1.542			
Relative vapor density No data available.			
Particle characteristics No data available.			

## Supplemental information regarding physical hazard classes

No data available.

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### **Further safety characteristics (supplemental)**

Other Information: Taste: Strongly acidic taste.

# **SECTION 10: Stability and reactivity**

#### Reactivity

Stable under normal conditions of storage and handling.

#### **Chemical stability**

Stable. Efflorescent in dry air.

## Possibility of hazardous reactions

Violent reactions possible with metals, oxidizing agents, bases and reducing agents.

Hazardous Polymerization: Will not occur.

#### **Conditions to avoid**

Strong heating (releases water of crystallisation).

#### **Incompatible materials**

Oxidising agents, metals, bases, reducing agents and nitrates.

## **Hazardous decomposition products**

May liberate toxic fumes in fire including carbon oxides.

# **SECTION 11: Toxicological information**

#### Information on toxicological effects

## **Acute toxicity**

Acute Toxicity - Oral: LD50 Oral - Rat - male - 11,700 mg/kg (OECD Test Guideline 401)

Ingestion: May cause slight irritations of mucous membranes of the stomach, coughing, pain and bloody vomiting.

Inhalation: May cause slight irritation to the respiratory system.

#### Skin corrosion/irritation

May be slightly irritating to skin.

### Serious eye damage/irritation

Causes serious eye irritations.

## Respiratory or skin sensitization

Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

## Carcinogenicity

Not classified based on available information.

## Reproductive toxicity

Not classified based on available information.

## Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

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### Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

#### **Aspiration hazard**

Not classified based on available information.

## **SECTION 12: Ecological information**

#### **Toxicity**

This material has a high biological oxygen demand, and it may cause significant oxygen depletion in aquatic systems. This product is expected to be readily biodegradable and is not likely to bioconcentrate. When diluted with a large amount of water, this chemical released directly or indirectly into the environment is not expected to have a significant impact.

[8X] Acute Toxicity - Fish: LC50 (L. idus): 440-760 mg/l/96 h (anhydrous substance).

[8Y] Acute Toxicity - Daphnia: EC50 (Daphnia magna): ~120 mg/l/72 h (anhydrous substance).

[90] Acute Toxicity - Bacteria: EC5 (Ps. putida): >10000 mg/l/16 h (anhydrous substance)(Lit.).

#### Persistence and degradability

Biodegradation: >98%/2d (Zahn-Wellens). Easily eliminable. BOD5: 0.481 g/g. ThOD: 0.686 g/g (Lit.). COD: 0.685 g/g.

#### **Bioaccumulative potential**

Behaviour in environmental compartments:

Distribution: log P(o/w): -1.72 (20 °C)(anhydrous substance).

No bioaccumulation is to be expected (log P(o/w)<1).

## **SECTION 13: Disposal considerations**

## **Disposal methods**

### **Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

## Sewage disposal

Behaviour in environmental compartments:

Distribution: log P(o/w): -1.72 (20 °C)(anhydrous substance).

No bioaccumulation is to be expected (log P(o/w)<1).

## **SECTION 14: Transport information**

## ADG (Road and Rail)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### IATA

Not dangerous goods

# **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question

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Australia SUSMP Poison Schedule: NS

## **SECTION 16: Other information**

#### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

### **Preparation information**

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'
Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.
Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019
Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au
IATA, Dangerous Goods Regulations (DGR)
IMO, International Maritime Dangerous Goods Code (IMDG)