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SDS no. 98WFHTMH • Version 1.0 • Date of issue: 2024-09-10

#### **SECTION 1: Identification**

#### **GHS Product identifier**

Product name CITRIC ACID Solution

Product number 5701

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

Flavouring extracts, confectionary, soft drinks, 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, cultured dairy products, pharmaceutical syrups and laboratory reagent.

## Supplier's details

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**Emergency phone number** 

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## **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
- Skin corrosion/irritation, Cat. 2

## GHS label elements, including precautionary statements

#### **Pictograms**



Signal word Warning

Hazard statement(s)

H315 Causes skin irritation
H319 Causes serious eye irritation

**Precautionary statement(s)** 

P264 Wash hands thoroughly after handling.

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

P302+P352 IF ON SKIN: Wash with plenty of water/soap

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

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

#### **Mixtures**

Molecular weight: 192.13

## **Components**

Component	CAS no.	Concentration
Citric acid (EC no.: 201-069-1)	77-92-9	50 - 50 % (weight)
CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 2A; Skin corrosion/irritation, Cat. 2; Specific target organ toxicity following single exposure, Cat. 3.		
HAZARDS: H315 - Causes skin irritation; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness.		
Water (EC no.: 231-791-2)	7732-18-5	50 - 50 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.		

#### **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

Wash affected area thoroughly with soap and water. Remove contaminated

clothing and wash before reuse or discard. If symptoms develop seek medical

attention.

In case of eye contact Immediately irrigate with copious quantity of water for at least 15 minutes.

Eyelids to be held open. If rapid recovery does not occur, obtain medical

attention

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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

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.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

#### Specific hazards arising from the chemical

Hazards from Combustion Products: Oxides of carbon.

Material does not burn. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.

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Citric acid: 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

Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.

Wear protective clothing specified for normal operations (see Section 8)

#### Methods and materials for containment and cleaning up

Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

Prevent further leakage or spillage and prevent from entering drains

# **SECTION 7: Handling and storage**

## **Precautions for safe handling**

Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

# Conditions for safe storage, including any incompatibilities

Keep container tightly closed and dry, away from direct sunlight. Store at room temperature (15 - 25  $^{\circ}$ C).

# **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)

#### **Eve/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.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

#### **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**

Kinematic viscosity

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

Physical state Liquid

Appearance Colourless liquid.
Color No data available.

Odor Essentially odourless to very slight sugary odour.

No data available.

Odor threshold No data available.

Melting point/freezing point No data available.

Boiling point or initial boiling point and boiling range 104 °C

Flammability

Lower and upper explosion limit/flammability limit

No data available.

Flash point

No data available.

Explosive properties

No data available.

Explosive properties

Auto-ignition temperature

Decomposition temperature

No data available.

На

Solubility

Partition coefficient n-octanol/water (log value)

Vapor pressure Evaporation rate

Density and/or relative density

Relative vapor density

Particle characteristics

Supplemental information regarding physical hazard classes

No data available.

**Further safety characteristics (supplemental)** 

No data available.

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Solubility in Water: Miscible (soluble) in all proportions.

No data available. No data available. No data available.

Specific Gravity: 1.24 @ 15 °C

0.62

No data available.

# **SECTION 10: Stability and reactivity**

## Reactivity

Stable under normal conditions of storage and handling.

#### **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

#### **Conditions to avoid**

Avoid storing in direct sunlight and avoid extremes of temperature.

## **Incompatible materials**

Hypochlorites, oxidising agents, caustics, zinc, aluminium and mild steel.

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Citric acid: Oxidizing agents, Bases, Reducing agents, Nitrates

## **Hazardous decomposition products**

Heating to decomposition will produce carbon dioxide and carbon monoxide.

# **SECTION 11: Toxicological information**

## Information on toxicological effects

## **Acute toxicity**

Acute Toxicity - Oral: LD50 (rat): 3000 mg/kg (anhydrous).

Ingestion: May cause irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting, sore throat, abdominal pain and diarrhoea.

Inhalation: May cause irritation to respiratory system.

#### Skin corrosion/irritation

Causes moderate irritation. Symptoms include redness, itching and swelling.

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#### Serious eye damage/irritation

Splashes and mists cause severe irritation and possible burns. Symptoms include stinging, tearing, redness and in severe cases, eye damage due to burns.

#### Respiratory or skin sensitization

No data available

## **Germ cell mutagenicity**

No data available.

## Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

# Summary of evaluation of the CMR properties

No data available.

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

No data available.

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

No data available.

## **Aspiration hazard**

No data available.

## **Additional information**

No data available.

# **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.

## **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.

#### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

# **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

#### **Australia SUSMP**

Poison Schedule: NS

### **Canadian Domestic Substances List (DSL)**

Chemical name: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-

CAS: 77-92-9

Chemical name: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate

CAS: 5949-29-1

## **New Jersey Right To Know Components**

Citric acid CAS-No. 77-92-9

#### **Pennsylvania Right To Know Components**

Citric acid CAS-No. 77-92-9

#### SARA 311/312 Hazards

Acute Health Hazard

## **SECTION 16: Other information**

## Further information/disclaimer

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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)