

Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND THE SUPPLIER

1.1 Product identifiers

Product name : CITRIC ACID MONOHYDRATE

1.2 Other means of identification

2-Hydroxy-1,2,3-propanetricarboxylic acid, 2-Hydroxypropane-1,2,3-tricarboxylic acid, C₆H₈O₇.

1.3 Recommended use of the product and restrictions on use

Preparation of citrates, flavouring extracts, confections, soft drinks, acidifier, dispersing agent, sequestering agent, water-conditioning agent, cleaning and polishing stainless steel and other metals

1.4 Details of supplier of the safety data sheet

Company : Canning Pool & Pump Centre
Street address : Unit 4 / 213 Railway Avenue Kelmscott WA 611
Telephone : (08) 9390 7040
Fax :

1.5 Emergency telephone number

Telephone (08) 9390 7040

2. HAZARDS IDENTIFICATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

2.1 GHS Classification

Serious eye irritation (Category 2A)
Skin corrosion (Category 2)
Specific target organ toxicity (Category 3)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word : WARNING

Hazard statement(s)

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

Prevention

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P271 Use only outdoors in a well ventilated area.
P261 Avoid breathing dust.

Response

P302 + P352

IF ON SKIN (or hair): Wash with plenty of soap and water.

P332 + P313

If skin irritation occurs: Get medical advice/attention.

P362

Take off contaminated clothing and wash before re-use.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P312

Call a POISON CENTRE or doctor/physician if you feel unwell.

Storage

P403 + P233

Store in a well ventilated place. Keep container tightly closed.

P405

Store locked up.

Disposal

P501

Dispose of contents/container in accordance with local/regional/national regulations.

Other hazards

None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Classification	Concentration (%)
Citric Acid Monohydrate	77-92-9	Eye Irrit. 2A; Skin Corr. 2; Spec. Targ. Org. Tox. 3	> 99
Water	7732-18-5	N/A	Balance

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

4. FIRST AID MEASURES**4.1 Description of First Aid measures****General advice**

Contact the Poisons Information Centre (Phone: Australia 131 126; New Zealand 0800 764 766) or consult a doctor/physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If inhaled in, move person into fresh air. If not breathing, give artificial respiration. If rapid recovery does not occur, seek medical advice.

In case of skin contact

Remove contaminated clothing and wash affected areas with soap and running water for at least 15 minutes. Launder clothing before reuse. If skin irritation occurs, seek medical advice.

In case of eye contact

In case of eye contact, check for and remove any contact lenses. Immediately rinse thoroughly with plenty of running water for at least 15 minutes, keeping eyelids open. If eye irritation persists, seek medical advice/attention.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in Section 2.2 and/or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

4.4 First Aid facilities

Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES**5.1 Suitable extinguishing media**

Water fog (or if unavailable, fine water spray), foam, dry chemical powder, carbon dioxide

- 5.2 Special hazards arising from the chemical**
Non-combustible solid. Material does not burn nor will it support combustion. Hazardous decomposition products may include noxious and toxic oxides of carbon fumes.
- 5.3 Special protective equipment and precautions for fire fighters**
Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. Do not allow fire-fighting water to reach waterways, drains or sewers. Store fire-fighting water for treatment.
- 5.4 Hazchem code**
None allocated

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Avoid breathing vapours, mist or gas. May be slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Stop leak if safe to do so and isolate danger area. For personal protection see section 8.
- 6.2 Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. If contamination of sewers or waterways has occurred, advise local emergency services. Observe all local and national regulations.
- 6.3 Methods and materials for containment and cleaning up**
Slippery when spilt. Avoid accidents, clean up immediately. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes
- 7.2 Conditions for safe storage, including any incompatibilities**
Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 8.1 Control parameters**
Not value assigned for this specific material by SWA; however, the exposure standard for dust not otherwise specified is 10 mg/m³ (for inspirable dust) and 3 mg/m³ (for respirable dust).
- Biological Limits**
None allocated for this product.
- 8.2 Exposure controls**
- Appropriate engineering controls**
General industrial hygiene practice.
- Personal protective equipment (PPE)**
The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods and environmental factors.
- Eye/face protection**
Safety glasses or goggles. See Australian Standards (AS/NZS 1336 & 1337).
- Skin protection**
Wear impervious gloves and protective clothing (splash apron or equivalent chemical impervious outer garment and rubber boots) appropriate for the risk of exposure. See Australian Standards (AS 2161 & 2919 and AS/NZS 2210).

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

Respiratory protection

Where risk assessment shows inhalation risk exists, wear an approved P1 or P2 particulate filter respirator. See Australian Standards (AS/NZS 1715 & 1716). Use dust mask as a minimum.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form : Solid
	Colour : White powder
Odour:	Odourless
Odour Threshold:	No data available
pH:	1.5 – 2.5 (5% solution)
Melting Point (°C):	153
Boiling Point/Range (°C):	No data available
Decomposition Temperature:	No data available
Evaporation Rate:	No data available
Flash Point:	Not applicable
Flammability Limits:	Not applicable
Specific Gravity:	1.665
Vapour Density (air=1):	No data available
Vapour Pressure:	No data available
% Volatiles:	No data available
Solubility in water:	134 g/100 g

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Product is stable under normal conditions of use, storage and temperature

10.3 Possibility of hazardous reactions

Polymerisation is not expected to occur.

10.4 Conditions to avoid

Sources of ignition. Direct sunlight. Extremely high temperatures

10.5 Incompatible materials

Incompatible with strong bases and strong oxidisers. Mildly corrosive to carbon steel.

10.6 Hazardous decomposition products

Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

For citric acid (77-92-9) Oral LD₅₀ Ingestion (rat) : 3000 mg/kg
Oral LD₅₀ Ingestion (mice) : 5040 mg/kg

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Health Effects

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

- Eye contact :** A serious eye irritant. May cause tearing, stinging, blurred vision and redness.
- Skin contact :** Causes irritation to skin, including redness, itching and pain.
- Ingestion :** Swallowing may irritate the gastrointestinal tract causing nausea, vomiting and diarrhoea.
- Inhalation :** Breathing in mists or aerosols may produce respiratory irritation.

11.2 Information on possible routes of exposure

The substance can be absorbed into the body by ingestion, inhalation of its vapour, mist or aerosol, eye contact and skin contact.

11.3 Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

Avoid contaminating waterways.

Toxicity to fish:

Highly toxic to fish. Not considered to be toxic to bacteria.

12.2 Persistence and degradability

Easily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS**13.1 Disposal methods and containers**

Ensure waste disposal conforms to relevant local, state and federal authority waste disposal regulations

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Not classified as a Dangerous Goods by the criteria of the IMDG Code for transport by sea

Not classified as a Dangerous Goods by the criteria of the IATA Code for transport by air

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|--|-------------------------|
| 14.1 UN number | None allocated |
| 14.2 Proper shipping name | CITRIC ACID MONOHYDRATE |
| 14.3 Transport hazard class | None allocated |
| 14.4 Packing group | None allocated |
| 14.5 Environmental hazards | No |
| 14.6 Special precautions for users | None allocated |
| 14.7 Hazchem code | None allocated |
| 14.8 Dangerous goods initial emergency response guide (SAA/SNZ HB76:2010) | None allocated |

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

None allocated

Carcinogen classification under WHS Regulations 2011, Schedule 10

Not listed

Notification status

AICS On the inventory, or in compliance with the inventory.

SECTION 16 OTHER INFORMATION

Key / legend to abbreviations and acronyms used in the MSDS

ADG	Australian Dangerous Goods
ASCC	Australian Safety and Compensation Council
DEC	Department of Environment and Conservation
GHS	Globally Harmonised System of Classification & Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
NOHSC	National Occupational Health and Safety Commission
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
RTECS	Registry of Toxic Effects of Chemical Substances.
SWA	Safe Work Australia
Eye Irrit	Eye Irritation
pH	Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

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

H319 Causes serious eye irritation.

Literature references

"Workplace Exposure Standards for Airborne Contaminants, December 2011" by SWA Work Health and Safety Regulations 2011

"Registry of Toxic Effects of Chemical Substances". Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2012.

Reason(s) for Issue:

Revised primary SDS

Alignment to GHS requirements

Disclaimer

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