

Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND THE SUPPLIER

1.1 Product identifiers

Product name : CITRIC ACID SOLUTION

1.2 Other means of identification

2-Hydroxy-1,2,3-propanetricarboxylic acid Solution

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 : AGent Sales & Services Pty Ltd

Street address : 38 May Holman Drive, Bassendean, Western Australia 6054

Telephone : (+61 8) 6270 4500

Fax : (+61 8) 6270 4544

1.5 Emergency telephone number

Telephone : (+61 8) 6270 4500

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)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word : Warning

Hazard statement(s)

H319 Causes serious eye irritation.

Precautionary statement(s)

Prevention

P264 Wash hands thoroughly after handling.

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

Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing 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.

Storage

No storage statements.

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 Anhydrous	77-92-9	Eye Irrit. 2A, H319	10 – 50
Water	7732-18-5	Not listed	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 liquid although if allowed to evaporate, the residue may burn in the presence of strong ignition source. Combustion of residue are carbon dioxide and carbon monoxide gas and irritating fumes and acrid smoke

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.

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.
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

Avoid contact with skin and eyes. Avoid inhalation of vapour, mist and aerosol. Observe good personal hygiene, including washing hands before eating.

For precautions see Section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Not value assigned for this specific material by SWA.

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

Splash-proof goggles or safety glasses with side shields. 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).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form : Liquid

Colour : Clear, colourless

Odour:

None

Odour Threshold:	No data available
pH:	1.5 – 2.5
Freezing Point (°C):	-63 to -27
Boiling Point/Range (°C):	103
Decomposition Temperature:	No data available
Evaporation Rate:	No data available
Flash Point:	Not applicable
Flammability Limits:	Not applicable
Specific Gravity:	1.24 – 1.26
Vapour Density (air=1):	No data available
Vapour Pressure:	No data available
% Volatiles:	No data available
Solubility in water:	Miscible in water

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 or low temperatures

10.5 Incompatible materials

Incompatible with strong bases and strong oxidisers

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

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

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.

Reproductive toxicity

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

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:

No data available.

12.2 Persistence and degradability

No data available.

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

14.1 UN number	None allocated
14.2 Proper shipping name	CITRIC ACID SOLUTION
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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