

1. IDENTIFICATION

Commercial Name: Citric Acid, Anhydrous
Other Names: 1,2,3-Propanetricarboxylic acid, 2-hydroxy; 2-Hydroxy-1,2,3-propanetricarboxylic acid;
 2-Hydroxypropane-1,2,3-tricarboxylic acid
Product Use: Food applications

Contact Information:

| Organisation | Location | Telephone | Ask For |
|---------------------------------------|---|--------------|-------------|
| Adelaide Moulding and Candle Supplies | 7 Woodlands Terrace Edwardstown South Australia 5039 | 08 8294 0451 | SDS Officer |
| Poisons Information Centre | | 13 11 26 | |

2. HAZARD IDENTIFICATION

Poison Schedule: Not scheduled
Globally Harmonised System: Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Hazard Classification: Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Hazard Categories: Skin Corrosion/Irritation - Category 2
 Serious Eye Damage/Irritation - Category 2A
 Specific Target Organ Toxicity (Single Exposure) - Category 3

Pictograms:



Signal Words: Warning
Hazard Statements: H315, Causes skin irritation.
 H319, Causes serious eye irritation.
 H335, May cause respiratory irritation.

Precautionary Statements

Prevention: P280, Wear protective gloves/face protection.
 P261, Avoid breathing dust.
 P271, Use only outdoors or in a well-ventilated area.
Response: P302+P352, IF SKIN: Wash with plenty of water.
 P337+P313, If eye irritation persists: Get medical advice.
 P312, Call a POISON CENTER or doctor if you feel unwell.
 P331+P313, If skin irritation occurs: Get medical advice.
 P362, Take off contaminated clothing.
 P305+P351+P338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P340, IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
Storage: P403+P233, Store in a well place. Keep container closed.
 P405, Store locked up.

Disposal P501, Dispose of contents/container in accordance with local / regional / national / international regulations.

National Transport Commission Australia: Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code).

Dangerous Goods Classification: NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

| CAS Number | Chemical Entity | Formula | Proportion |
|------------|-----------------|---------|------------|
| 77-92-9 | Citric acid | C6H8O7 | <=100 % |

4. FIRST AID MEASURES

Swallowed: IF SWALLOWED: Rinse mouth with water, then drink plenty of water. Do NOT induce vomiting. Get medical advice/attention.

Skin: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

Eye: IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor/physician for advice. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.

Advice to Doctor: Treat symptomatically

Medical Conditions

Aggravated by Exposure: No information available.

5. FIRE FIGHTING MEASURES

General Measures: If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions: Combustible material; May burn but does not ignite readily.

Extinguishing Media: Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.

Fire and Explosion Hazard: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Products of Combustion: Fire may produce irritating, toxic and/or corrosive fumes, including oxides of Carbon.

Special Fire Fighting Instructions: Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment: Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.

Flash Point: 345 °C

Lower Explosion: No Data Available

Upper Explosion: No Data Available

Auto Ignition Temperature: No Data Available

Hazchem Code: No Data Available

6. ACCIDENTAL RELEASE MEASURES

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| General Response Procedure: | Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk-through spilled material. Avoid breathing vapours and contact with eyes, skin, and clothing. |
| Clean Up Procedures: | Collect material (sweep or vacuum up) and place into suitable containers for disposal (see SECTION 13). Avoid dispersal of dust in the air (i.e. clearing dusty surfaces with compressed air). Non-sparking tools should be used. |
| Containment: | Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud. |
| Decontamination: | Neutralise residues with lime or soda ash; Wash away remainder with plenty of water. |
| Environmental Precautionary Measures: | Prevent entry into drains and waterways. |
| Evacuation Criteria: | Spill or leak area should be isolated immediately. Keep unauthorised personnel away. |
| Personal Precautionary Measures: | Use personal protective equipment as required (see SECTION 8). |

7. HANDLING AND STORAGE

| | |
|---------------------------|---|
| Handling: | Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation - Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin, and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. |
| Storage: | Store in a cool, dry, and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10). |
| Other Information: | Keep in the original container. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|--------------------------------------|--|
| General: | No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards: <ul style="list-style-type: none">- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m³ (measured as inhalable dust).- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m³; TWA = 3 mg/m³ (respirable dust).- OSHA PEL for Particulates not otherwise regulated: TWA = 15 mg/m³ (total); TWA = 5 mg/m³ (respirable). |
| Exposure Limits: | No Data Available |
| Biological Limits: | No information available. |
| Engineering Measures: | A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. |
| Personal Protection Equipment | |
| Respiratory protection: | Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists. Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 & 1716). Eye/face protection: Wear appropriate eye protection to avoid eye contact. |

Recommended: Chemical goggles.
Hand protection: Wear protective gloves. **Recommended:** Impervious gloves.
Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact.
Recommended: Overalls, safety shoes.

Special Hazards Precautions: No information available.

Work Hygienic Practices: Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|--|---|
| Physical State: | Solid |
| Appearance: | Crystalline powder or granular |
| Odour: | Odourless |
| Colour: | Colourless to white |
| pH: | 2.0 - 2.5 (1% solution) |
| Vapour Pressure: | No Data Available |
| Relative Vapour Density: | No Data Available |
| Boiling Point: | Decomposes before boiling |
| Melting Point: | ca. 153 °C |
| Freezing Point: | No Data Available |
| Solubility: | Soluble in water (590 g/L) 20°C |
| Specific Gravity: | 1.665 |
| Flash Point: | 345 °C |
| Auto Ignition Temp: | No Data Available |
| Evaporation Rate: | No Data Available |
| Bulk Density: | No Data Available |
| Corrosion Rate: | No Data Available |
| Decomposition Temperature: | No Data Available |
| Density: | No Data Available |
| Specific Heat: | No Data Available |
| Molecular Weight: | No Data Available |
| Net Propellant Weight: | No Data Available |
| Octanol Water Coefficient: | No Data Available |
| Particle Size: | No Data Available |
| Partition Coefficient: | No Data Available |
| Saturated Vapour Concentration: | No Data Available |
| Vapour Temperature: | No Data Available |
| Viscosity: | No Data Available |
| Volatile Percent: | No Data Available |
| VOC Volume: | No Data Available |
| Additional Characteristics: | No information available. |
| Potential for Dust Explosion: | Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard. |
| Fast or Intensely Burning Characteristics: | No information available. |
| Flame Propagation or Burning Rate of Solid Materials: | No information available. |
| Non-Flammables That Could Contribute Unusual Hazards to a Fire: | No information available. |
| Properties That May Initiate or Contribute to Fire Intensity: | Combustible solid; May burn but does not ignite readily. |
| Reactions That Release Gases or Vapours: | Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including oxides of Carbon. |
| Release of Invisible Flammable Vapours and Gases: | No information available. |

10. STABILITY AND REACTIVITY

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| General Information: | Reacts exothermically with alkalis. |
| Chemical Stability: | Stable under normal storage and handling conditions. |
| Conditions to Avoid: | Avoid generating dust. Keep away from heat and sources of ignition. |
| Materials to Avoid: | Incompatible/reactive with strong oxidising agents, alkalis, carbon steel. |
| Hazardous Decomposition Products: | Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including oxides of Carbon. |
| Hazardous Polymerisation: | Will not occur. |

11. TOXICOLOGICAL INFORMATION

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|-----------------------------|---|
| General Information: | Acute toxicity: No adverse health effects expected; Swallowing (large amounts) may cause abdominal pain, nausea, vomiting and irritation to the mouth and throat. Physiological disturbances may include acidosis and calcium deficiency; The substance may have effects on the teeth, resulting in erosion. Skin corrosion/irritation: Causes skin irritation, redness. Eye damage/irritation: Causes serious eye irritation. Respiratory/skin sensitisation: No evidence of sensitisation. Germ cell mutagenicity: No evidence of mutagenicity. Carcinogenicity: No evidence of carcinogenicity. Reproductive toxicity: No evidence of reproductive or developmental toxicity. STOT (single exposure): May cause respiratory irritation; Inhalation of citric acid aerosols may induce coughing and broncho-constriction [NICNAS]. STOT (repeated exposure): Not considered to cause serious damage to health from repeated (oral) exposure [NICNAS]. Aspiration toxicity: No information available. |
| Acute Ingestion: | Acute toxicity (Oral): -LD50, Mouse: 5.400 – 5.790 mg/kg [equiv. OECD TG 401; ECHA] LD50, Rat: 11.700 mg/kg [equiv OECD TG 401; ECHA] |
| Other: | Acute toxicity (Dermal): LD60, Rats: >2.000 mg/kg bw. {NICNAS] |
| Carcinogen Category: | None |

12. ECOLOGICAL INFORMATION

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|-----------------------------------|--|
| Ecotoxicity: | Aquatic toxicity: - LC50, Fish (Leuciscus idus melanotus): 440 mg/L (48 h) [ECHA]. - EC50, Crustacea (Daphnia magna): 1,535 mg/L (24 h) mobility [ECHA]. |
| Persistence/Degradability: | Readily biodegradable. |
| Mobility: | No information available. |
| Environmental Fate: | Prevent entry into drains and waterways. |
| Bioaccumulation Potential: | Low potential for bioaccumulation. |
| Environmental Impact: | No Data Available |

13. DISPOSAL CONSIDERATIONS

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|---|---|
| General Information | Dispose of contents/container in accordance with local/regional/national regulations. |
| Special Precautions for Land Fill: | No information available. |

14. TRANSPORT INFORMATION

Land Transport (Australia)
ADG Code

Proper Shipping Name: Citric acid, anhydrous
Class: No Data Available
Subsidiary Risk(s): No Data Available
UN Number: No Data Available
Hazchem: No Data Available
Pack Group: No Data Available
Special Provision: No Data Available
Comments: NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport
IMDG Code

Proper Shipping Name: Citric acid, anhydrous
Class: No Data Available
Subsidiary Risk(s): No Data Available
UN Number: No Data Available
Hazchem: No Data Available
Pack Group: No Data Available
Special Provision: No Data Available
EMS: No Data Available
Marine Pollutant: No
Comments: NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport
IATA DGR

Proper Shipping Name: Corn Starch
Class: No Data Available
Subsidiary Risk(s): No Data Available
UN Number: No Data Available
Hazchem: No Data Available
Pack Group: No Data Available
Special Provision: No Data Available
Comments: NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification: NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information: WCO (World Customs organisation) HS Code: 2918.14

Poisons Schedule (Aust): Not Scheduled

Inventory Status: Australia (AICS)

National/Regional Inventories

Australia (AIC) Listed

16. OTHER INFORMATION

Related Product Codes: CIACID0200, CIACID0201, CIACID0205, CIACID0206, CIACID0208, CIACID0300, CIACID0301, CIACID0400, CIACID0401, CIACID0600, CIACID0601, CIACID0602, CIACID0603, CIACID0604, CIACID0605, CIACID0700, CIACID0701, CIACID0702, CIACID0703, CIACID0750, CIACID0800, CIACID0801, CIACID0900, CIACID0901, CIACID1000, CIACID1001, CIACID1002, CIACID1003, CIACID1004, CIACID1005, CIACID1006, CIACID1007, CIACID1008, CIACID1009, CIACID1010, CIACID1011, CIACID1012, CIACID1013, CIACID1014, CIACID1015, CIACID1016, CIACID1017,

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| Key | Legend |
|--------------------|--|
| < | Less Than |
| > | Greater Than |
| AICS | Australian Inventory of Chemical Substances |
| Atm | Atmosphere |
| CAS | Chemical Abstracts Service (Registry Number) |
| cm ² | Square Centimetres |
| CO ₂ | Carbon Dioxide |
| COD | Chemical Oxygen Demand |
| deg C (°C) | Degrees Celcius |
| EPA (New Zealand) | Environmental Protection Authority of New Zealand |
| deg F (°F) | Degrees Farenheit |
| g | Grams |
| g/cm ³ | Grams per Cubic Centimetre |
| g/l | Grams per Litre |
| HSNO | Hazardous Substance and New Organism |
| IDLH | Immediately Dangerous to Life and Health |
| Immiscible | Liquids are insoluble in each other |
| inHg | Inch of mercury |
| inH ₂ O | Inch of Water |
| K | Kelvin |
| kg | Kilogram |
| kg/m ³ | Kilograms per Cubic Metre |
| lb | Pound |
| LC50 | LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. |
| LD50 | LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. |
| ltr or L | Litre |
| m ³ | Cubic Metre |
| mbar | Millibar |
| mg | Milligram |
| mg/24H | Milligrams per 24 Hours |
| mg/kg | Milligrams per Kilogram |
| Mg/m ³ | Milligrams per Cubic Metre |
| Misc or Miscible | Liquids form one homogeneous liquid phase regardless of the amount of either component present. |
| mm | Millimetre |
| mmH ₂ O | Millimetres of Water |
| mPa.s | Millipascals per Second |
| N/A | Not Applicable |
| NIOSH | National Institute for Occupational Safety and Health |
| NOHSC | National Occupational Health and Safety Commission |
| OECD | Organisation for Economic Co-operation and Development |
| Oz | Ounce |
| PEL | Permissible Exposure Limit |
| Pa | Pascal |
| ppb | Parts per Billion |
| ppm | Parts per Million |

| | |
|---------------|----------------------------------|
| ppm/2h | Parts per Million per 2 Hours |
| ppm/6h | Parts per Million per 6 Hours |
| psi | Pounds per Square Inch |
| R | Rankine |
| RCP | Reciprocal Calculation Procedure |
| STEL | Short Term Exposure Limit |
| TLV | Threshold Limit Value |
| tne | Tonne |
| TWA | Time Weighted Average |
| Ug/24H | Micrograms per 24 Hours |
| UN | United Nations |
| wt | Weight |

Further Information

The information in this safety data sheet is to the best of our knowledge true and accurate at the date of publication. All data, instructions, and recommendations and/or suggestion are made without guarantee.

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