



Page: 1 of 6

Infosafe No™ 1CH1Y RE-ISSUED by CHEMSUPP Issue Date : May 2020

Product Name CITRIC ACID Anhydrous

Classified as hazardous

1. Identification

GHS Product

CITRIC ACID Anhydrous

Identifier

CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211) **Company Name**

Address

38 - 50 Bedford Street GILLMAN

Telephone/Fax

SA 5013 Australia Tel: (08) 8440-2000

Number

Emergency phone

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

number E-mail Address

www.chemsupply.com.au

the chemical and restrictions on use

Recommended use of 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, chemical for synthesis, pharmaceutical syrups, analytical chemistry and laboratory

CA013

CL013

reagent.

Other Names Name Product Code

> CITRIC ACID Anhydrous AR CITRIC ACID Anhydrous LR

2-Hydroxy-1,2,3-propanetricarboxylic acid, beta-Hydroxytricarballylic acid, Hydroxytricarballylic acid, b-Hydroxy

tricarboxilic acid,

1,2,3-Propanetricarboxylic acid,

2-hydroxy

Other Information

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.

2. Hazard Identification

Eye Damage/Irritation: Category 2A GHS classification of

Skin Corrosion/Irritation: Category 2 the

Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract substance/mixture

irritation)

Signal Word (s) WARNING

H319 Causes serious eye irritation. **Hazard Statement (s)**

H315 Causes skin irritation.

H335 May cause respiratory irritation.

Exclamation mark Pictogram (s)



Print Date: 17/12/2020 CS: 3.4.18





Page: 2 of 6

Infosafe No^{TM} 1CH1Y Issue Date : May 2020 RE-ISSUED by CHEMSUPP

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Precautionary P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

statement - P264 Wash thoroughly after handling.

Prevention P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/face protection.

Precautionary

 $statement - \overset{\circ}{Response}$ P302+P352 IF ON SKIN: 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 reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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.

Precautionary statement – Storage P403+P233 Store in a well-ventilated place. Keep container tightly closed.

tatement - Storage P405 Store locked up.

Precautionary

statement - Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Citric acid anhydrous	77-92-9	100 %

4. First-aid measures

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

oxygen. Get medical aid if cough or other symptoms appear.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of

product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek

medical advice if symptoms persist.

Skin Wash affected areas with copious quantities of water. If swelling, redness,

blistering or irritation occurs seek medical advice. Remove contaminated

clothing and wash before re-use.

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

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

the patient.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126;

New Zealand 0800 764 766) or a doctor at once.

5. Fire-fighting measures

Hazards from

May liberate toxic fumes in fire such as oxides of carbon.

Combustion **Products**

Specific Methods Non combustible solid.

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.

Decomposition Temp. 175 °C

Precautions in

Wear SCBA and structural firefighter's uniform.

connection with Fire

6. Accidental release measures

Personal Precautions Avoid inhalation, contact with skin, eyes and clothing.

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

Print Date: 17/12/2020 CS: 3.4.18





Page: 3 of 6

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Clean-up Methods -Small Spillages Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling Avoid substance contact and generation and inhalation of dust.

Handling

Conditions for safe storage, including any incompatibilities Store in a cool, dry place. Store away from oxidizing agents. Keep container tightly closed Do not store in metal containers. Store at +5 to +30 °C.

any incompatibilities

8. Exposure controls/personal protection

Other Exposure Information

No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable.

Appropriate engineering controls

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust

ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.

Respiratory Protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including

selection, fit testing, training, maintenance and inspection.

Eye 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.

Hand Protection

Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.

••••

Personal Protective Equipment The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the α

chemical, the handling methods, and environmental factors.

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

Chemicals.

Hygiene Measures

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or

re-using.

9. Physical and chemical properties

Form Solid

Appearance Colourless, translucent crystals or white powder.

OdourOdourless.Decomposition175 °C

Temperature

Melting Point 153 °C (decomposition)

Print Date: 17/12/2020 CS: 3.4.18





4 of Page: 6

Infosafe No™ 1CH1Y RE-ISSUED by CHEMSUPP Issue Date : May 2020

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Decomposes before boiling. **Boiling Point** Soluble (59.2% w/w at 20 °C) Solubility in Water

Solubility in Organic Very soluble in alcohol. Soluble in ether.

Solvents

1.665 **Specific Gravity**

~1.7 (100 g/l, H2O, 20 °C) pН

<0.1 hPa (20 °C) Vapour Pressure

Partition Coefficient: log P(o/w): -1.72 (20 °C)

n-octanol/water

Combustible. Flammability

345 °C **Auto-Ignition**

Temperature

8.0 Vol % **Explosion Limit -**

Upper

2.3 Vol % **Explosion Limit -**

Lower

192.13 Molecular Weight

Acidity: pK1 = 3.128, pK2 = 4.761, pK3 = 6.396 @ 25 °C Other Information

Taste: Strongly acidic taste.

10. Stability and reactivity

Stable under normal use conditons. **Chemical Stability**

Strong heating. **Conditions to Avoid**

Incompatible Materials

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

Hazardous

Will not occur.

Polymerization

11. Toxicological Information

LD50 (rat): 54000 mg/kg. **Acute Toxicity - Oral**

Ingestion of large amounts may cause irritations of mucous membranes of the Ingestion

stomach, coughing, pain and bloody vomiting.

Inhalation Irritating to respiratory system.

Irritating to skin. Skin

Severely irritating to eyes. Risk of serious damage to eyes. Eye

Respiratory sensitisation Not classified based on available information.

Not classified based on available information. **Skin Sensitisation** Not classified based on available information. Germ cell

mutagenicity

No evidence of carcinogenic properties. Carcinogenicity

Reproductive

Not classified based on available information.

Toxicity

STOT-single Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract

irritation) exposure

H335 May cause respiratory irritation.

STOT-repeated

Not classified based on available information.

exposure

Health Hazard Exposure can cause vomiting, diarrhea, damage to tooth enamel and dermatitis.

No evidence of mutagenic properties. Mutagenicity

Print Date: 17/12/2020 CS: 3.4.18





5 of Page:

Infosafe No™ 1CH1Y RE-ISSUED by CHEMSUPP Issue Date : May 2020

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12. Ecological information

Biodegradation: 98%/2d (Zahn-Wellens). Persistence and

Easily eliminable. degradability

BOD5: 0.526 g/g (Lit.). ThOD: 0.75 g/g (calculated).

COD: 0.728 g/g (Lit.).

Behaviour in environmental compartments: **Bioaccumulative** Distribution: $\log P(o/w)$: -1.72 (20 °C)**Potential**

No bioaccumulation is to be expected (log Pow <1).

Biological Properties Harmful effect due to pH shift.

Environmental Protection

This material has a high biological oxygen demnand, 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.

13. Disposal considerations

Disposal Considerations Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Not Scheduled **Poisons Schedule**

16. Other Information

Literature References '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'.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency

Response Guide', Standards Australia/Standards New Zealand.

Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe

Work Hazardous Substances'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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representatives.

Empirical Formula & Structural **Formula**

C6H8O7

...End Of MSDS...

Print Date: 17/12/2020 CS: 3.4.18





Page: 6 of 6

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Print Date: 17/12/2020 CS: 3.4.18