

# SAFETY DATA SHEET

**CITRIC ACID**

Infosafe No.: 1HH0K  
ISSUED Date : 16/01/2019  
ISSUED by: CULBEAG HOLDINGS Pty Ltd

## 1. IDENTIFICATION

### GHS Product Identifier

CITRIC ACID

### Company Name

CULBEAG HOLDINGS Pty Ltd (ABN 95 007 197 079)

### Address

19 Allied Drive Tullamarine  
VICTORIA 3043 Australia

### Telephone/Fax Number

Tel: 03 9335 4400  
Fax: 03 9335 1750

### Emergency phone number

03 9335 4400

### Emergency Contact Name

Mr Ian Cameron

### E-mail Address

sales@culbeag.com.au

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

Confectionary, soft drinks, effervescent drinks, dispersing agent, sequestering agent, water conditioning agent and detergent builder, cleaning and polishing stainless steel and other metals, mordant.

## 2. HAZARD IDENTIFICATION

### GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Eye Damage/Irritation: Category 2A

Skin Corrosion/Irritation: Category 2

STOT Single Exposure: Category 3 (respiratory tract irritation)

### Signal Word (s)

WARNING

### Hazard Statement (s)

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

### Pictogram (s)

Exclamation mark



**Precautionary statement – Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash contaminated skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 Specific treatment (see First Aid instructions in Safety Data Sheet or on this label).  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

**Precautionary statement – Storage**

P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Precautionary statement – Disposal**

Dispose of content and/or container in accordance with State, Territorial or Commonwealth regulations.

**Supplemental Information**

In Australia the POISON CENTER is the Poisons Information Centre: telephone 131126.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Ingredients**

Name	CAS	Proportion
Citric Acid	77-92-9	100 %

### 4. FIRST-AID MEASURES

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**Inhalation**

If affected, move person to fresh air. If not breathing commence artificial respiration. If breathing is difficult a trained person can give oxygen. Seek medical attention.

**Ingestion**

Never give liquids by mouth or induce vomiting if patient is unconscious or having convulsions.  
If product has been swallowed do NOT induce vomiting. Wash out mouth with water and give plenty of water to drink.  
If symptoms develop seek medical attention

**Skin**

If skin contact occurs wash affected skin with flowing water for at least 15 minutes. Remove contaminated clothing and foot wear. If irritation persists seek medical attention. Wash clothing before re-use. Clean foot wear thoroughly before re-use.

**Eye contact**

If in eye(s), hold eyelid(s) open and wash with gently flowing water for 15 minutes. If irritation persists seek medical attention.

**First Aid Facilities**

Water for washing, eye washing facility or unit. Drinking quality water.

**Advice to Doctor**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

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**Suitable Extinguishing Media**

Foam, water spray. Dry powder can be used on small fire. Do not use a water jet.

### **Hazards from Combustion Products**

Products of combustion include carbon monoxide and carbon dioxide.

### **Special Protective Equipment for fire fighters**

Wear standard fire fighting equipment and protective clothing. Self contained breathing apparatus may be required depending on extent and composition of burning materials.

### **Specific Hazards Arising From The Chemical**

Product is deemed to be a combustible solid. If fine dust particles are created a dust explosion is possible.

### **Hazchem Code**

No data available.

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Spills & Disposal**

Wear suitable protective clothing. Ensure good ventilation. Collect spilled product for disposal. Avoid generation of fine dust particles. It may be necessary to use a vacuum cleaner to collect the spilled product. Do NOT sweep into drains, sewers or water courses. Neutralise residual product with a dilute solution of sodium carbonate and wash with water.

## **7. HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Use only in a well-ventilated area. Avoid inhalation of dust particles. Avoid contact with skin and eyes. Keep away from ignition sources, oxidising agents and combustible materials.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated location avoiding direct exposure to sunlight. Product is deliquescent. Keep the container or package closed when not in use. Store locked up.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **Occupational exposure limit values**

A WORKPLACE Exposure Standard [WES]\* has not been declared for CITRIC ACID by SWA\* for the workplace environment.

However it is recommended that the concentration of citric acid dust in the breathing zone;

be less than 10 mg per cubic metre, TWA, for inspirable particles, and

less than 3 mg per cubic metre, TWA, for respirable particles;

where

TWA - means the Time Weighted Average concentration of a particular substance determined over a normal 8-hour working period for a 5-day working week.

### **Appropriate Engineering Controls**

Provide local exhaust ventilation (LEV) or process enclosures to keep dust levels below the recommended exposure guidelines provided. Design equipment to prevent dispersion at the source.

### **Respiratory Protection**

Personal respiratory protection is recommended as an added control particularly where workplace atmospheric concentrations of dust may exceed the recommended guidelines (provided above) for the workplace. Select and fit an approved air-purifying respirator for dusts according to AS/NZS 1716\* and AS/NZS 1715\*.

### **Eye Protection**

Wear approved safety glasses preferably fitted with side shields. Eye protection complying with AS/NZS 1337\* should be worn to protect against dust particles entering the eye. Guidance to recommended practices for eye protection in the industrial environment is provided in AS/NZS 1336\*. Ensure that an eye wash facility is readily available in the work area.

### **Body Protection**

Wear long-sleeved overalls. Use gloves, boots and aprons suitable for the proposed operations. PVC, rubber or neoprene are suggested protective materials for this equipment. Selection of protective clothing can be guided by reference to AS/NZS 4501\*. Remove contaminated clothing promptly. Wash contaminated clothing before re-use.

### **Hygiene Measures**

It is a good work practice to wash hands, arms and face before eating, drinking or using toilet facilities and at the end of each work period.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

Colourless to white crystals. No odour. Strong acidic taste. Slightly deliquescent.

### Odour

Odourless.

### Melting Point

Melts at about 153°C. Decomposes @ 175°C.

### Boiling Point

Decomposes.

### Solubility in Water

Soluble in water. 60gm/litre @20°C.

### Solubility in Organic Solvents

Soluble in ethanol, methanol, isopropanol.

### Specific Gravity

1.665 (water = 1).

### pH

1.5 - 2.5 for a 5% solution.

### Vapour Pressure

Not relevant

### Flash Point

Not applicable for a solid

### Flammability

Fine dust/air mixtures may be explosive. Solid may burn but does not ignite readily.

### Flammable Limits - Lower

Not relevant

### Flammable Limits - Upper

Not relevant

## 10. STABILITY AND REACTIVITY

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### Chemical Stability

Stable at ambient temperatures.

### Conditions to Avoid

Avoid generation of dusts. Excess heat, moist air, incompatible materials.

### Incompatible materials

Oxidising agents, reducing agents, potassium tartrate, metals, alkalis, alkaline earth carbonates and bicarbonates, acetates and sulfides and metal nitrates.

### Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

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### Toxicology Information

Acute oral toxicity; LD50(rat): 6730 mg/kg.

No adverse effects expected. The NOAEL (No observed adverse effect level) repeated dose toxicity for rats is 1200 mg/kg/day\*.

### Ingestion

May cause gastric irritation depending on amount swallowed. May cause nausea, vomiting and diarrhea. Over-exposure may cause erosion of dental enamel.

**Inhalation**

Short Term Organ Toxicity (STOT) - single exposure may cause respiratory irritation.

**Skin**

Irritating to skin. May cause redness and itchiness. Prolonged or frequently repeated exposure may lead to defatting of the skin and dermatitic effects.

**Eye**

Serious irritation to the eye(s) causing redness, lachrymation (tears) and possible injury.

**Skin Sensitisation**

Sensitising potential is low.

**Chronic Effects**

Frequent intake of citrated beverages may cause erosion of dental enamel.

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**12. ECOLOGICAL INFORMATION**

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**Ecological information**

In fresh water citric acid appears to be of low acute toxicity to fish, water flea and algae\*.

**Persistence and degradability**

Rapidly degrades in sewage treatment works and surface waters.

**Environmental Protection**

Prevent entry into drains, waterways and water storages.

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**13. DISPOSAL CONSIDERATIONS**

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**Waste Disposal**

Dispose of waste materials in an approved waste disposal plant in accordance with current State, Territorial or Commonwealth regulations.

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**14. TRANSPORT INFORMATION**

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**U.N. Number**

None Allocated

**UN proper shipping name**

None Allocated

**Transport hazard class(es)**

None Allocated

**Hazchem Code**

No data available.

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**15. REGULATORY INFORMATION**

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**Regulatory information**

Product is classified as a Hazardous Chemical according to the criteria of GHS for classification and Labelling adopted by SWA\*.

Classified as a Serious Eye Irritant; Skin Irritant and Short Term Organ Toxicant (STOT) - single exposure may cause respiratory irritation.

Labelling requirements see subsection below.

Not classified as a Dangerous Good for transport or Storage.

Not classified as a scheduled poison.

**Packaging & Labelling**

Packaging is labelled in accord with the SWA Code of practice for labelling a workplace hazardous chemical\*.

Labelling in accordance with hazardous chemical regulations that require the following hazard statements;-

Causes serious eye irritation;

Causes skin irritation; and

Respiratory irritation.

supported by

Warning statement, Pictogram, Prevention Statements; Response Statements; Storage and Disposal Statements.

See Section 2 of this document for specific statements.

#### **Australia (AICS)**

Substance is in the Australian Inventory of Chemical Substances (AICS)\*.

## **16. OTHER INFORMATION**

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#### **Date of preparation or last revision of SDS**

Reviewed original MSDS and reclassified product as a HAZARDOUS CHEMICAL and issued revised document as a SAFETY DATA SHEET (SDS) 16th January 2019 in accord with National Code of Practice for preparation of a SDS for a hazardous chemical\*. Revised Section 2 - classification of product as a hazardous chemical with required statements and pictogram; Section 15 - Regulatory Information, Packaging and Labelling. Minor revisions and editorial changes to other Sections. Section 16 - Literature References included reference to GHS classification criteria; denumbered references.

#### **References**

- \* Australian Dangerous Goods Code, as amended.
- \* Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.
- \* Exposure Standards for Atmospheric Contaminants in the Occupational Environment in Exposure Standards section of HSIS, as amended.
- \* SWA = Safe Work Australia.
- \* AS = Australian Standard
- \* NZS = New Zealand Standard
- \* AS/NZS 1716: Respiratory protective devices.
- \* AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.
- \* AS/NZS 1337: Eye protectors for the industrial applications.
- \* AS/NZS 1336: Recommended practices for eye protection in the industrial environment.
- \* AS/NZS 4501.2:2006 Occupational protective clothing - General requirements.
- \* HERA (Human & Environmental Risk Assessment): Risk Assessment Summary of Citric acid/salts. Refer [http://www.heraproject.com/files/37-F-05-HERA\\_citricacid\\_version1\\_April05.pdf](http://www.heraproject.com/files/37-F-05-HERA_citricacid_version1_April05.pdf).
- \* National Code of Practice for Labelling of Workplace Hazardous Chemicals. SWA.
- \* Australian Inventory of Chemical Substances maintained by National Industrial Chemicals Notification and Assessment Scheme. .
- \* National Code of Practice for the Preparation of Safety Data Sheet for Hazardous Chemicals. SWA.

#### **Contact Person/Point**

BUSINESS HOURS: Product Information Officer, (03) 9335 4400

This SDS summarises our best knowledge of the health and safety hazard information of this product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is available on our website at [www.culbeag.com.au](http://www.culbeag.com.au)

## **END OF SDS**

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