

SAFETY DATA SHEET

CITRIC ACID ANHYDROUS

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name CITRIC ACID
Product Code 401
Product Use Food applications , pH modifier
Company Name Byre Chemicals
Address 3/43 Byre Avenue
 Somerton Park SA 5044
Telephone 08 8350 9228
Fax 08 8350 9334
Emergency phone no. 0412 426 697
Email info@byrechemicals.com.au

2. HAZARDS IDENTIFICATION

GHS Classification

Hazardous according to the criteria of GHS of Classification and Labelling of Chemicals.

Hazard Categories

Serious eye damage /irritation Category 2A
 Skin corrosion/irritation Category 2
 Specific Target Organ Toxicity (Single exposure) Category 3

Hazard Statements

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

Signal Word

WARNING

Precautionary Statement

P261 Avoid breathing dust
 P264 Wash exposed skin thoroughly after handling
 P271 Use only in a well ventilated area
 P280 Wear eye protection and rubber gloves
 P302 Splashes on skin to be washed off immediately
 P305 If splashed into eyes , remove contact lenses if present and wash with clean running water for 15 minutes. Seek medical attention immediately.
 P403 Keep containers tightly closed and store in a lock-up facility.

Pictograms



3. COMPOSITION /INFORMATION ON INGREDIENTS

INGREDIENTS	CAS.NO.	PROPORTION
Citric Acid	77-92-9	100 %

BYRE CHEMICALS

CITRIC ACID ANHYDROUS

4. FIRST-AID MEASURES

INHALATION	<i>Avoid generating dust. Remove casualty from contaminated area</i>
INGESTION	<i>If swallowed Do Not induce vomiting. Give water or a glass of milk. If breathing has stopped, give artificial respiration. Transport to hospital.</i>
SKIN	<i>If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. Wash clothing before re-use. If irritation persists, seek medical advice.</i>
EYE	<i>If in eyes, hold eyelids apart and flood the eye continuously with water for at least 10 minutes. Seek medical attention</i>
FIRST AID	<i>Eye wash. Safety shower , hand wash basin</i>
ADVICE TO DOCTOR	<i>Treat symptomatically</i>

5. FIREFIGHTING MEASURES

Extinguishing Media	<i>Water ,Carbon dioxide, or foam</i>
Hazards from Combustion	<i>Material won't burn but may emit carbon dioxide including carbon monoxide gas. Contact with some metals including aluminium and zinc will liberate flammable hydrogen gas</i>
Precaution for Firefighter	<i>Wear chemical suit. Prevent run off from entering drains and waterways.</i>

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE

*Evacuate all unnecessary personnel. Do not breathe dust or handle damaged containers
For small spills hose down area. For large spills contain and sweep/shovel the collected material into suitable containers , label and disposed of in an appropriate way.
Dispose of waste according to applicable local and national regulations*

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

*Wear appropriate protective clothing
Avoid inhalation of dust and mists and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists and vapours in the work atmosphere. Do not use near ignition sources, cut, heat containers as they may produce hazardous fumes. Maintain high standards of personal hygiene ie washing hands prior to eating, drinking, smoking or using toilet facilities*

CONDITIONS FOR SAFE STORAGE

Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents , peroxides, foodstuffs and clothing. Large quantities should be stored in a banded dangerous goods store. Prevent contact with aluminium, tin, zinc or galvanised iron .Store in original containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits	<i>No data available</i>
Engineering Controls	<i>A system of local and /or general exhaust is recommended to keep employee exposure as low as possible. Keep containers closed when not in use.</i>
Eye Protection	<i>Safety glasses with side shields should be used.</i>
Hand Protection	<i>Wear gloves of impervious material such as neoprene, or nitrile rubber.</i>
Hygiene Measures	<i>Avoid contact with skin, eyes and clothing Wash hands after handling product. Keep away from foodstuffs.</i>
Skin & Body Protection	<i>Wear rubber gloves and apron</i>

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline powder
Odour	Odourless to slight
pH	1.5 – 2.0 (5% solution)
Boiling Point	No data available
Melting Point	153C
Vapour Pressure	No data available
Flash Point	None
Specific Gravity	1.665
Solubility in Water	134Gm / 100Gm. water.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling
Conditions to avoid	High temperature, sparks and open flames.
Incompatible materials	Alkalis , strong oxidising agents.
Hazardous decomposition	Thermal decomposition may result in release of irritating fumes including carbon dioxide and carbon monoxide
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Oral LD50 (Rat) 3000 mgm/kg Oral LD50 (Mice) 5040 mgm/kg
Ingestion	No adverse effects expected, however large amounts may cause nausea and vomiting. Swallowing may result in irritation to the mouth and throat. Frequent or large oral doses can cause tooth erosion.. This product is a permitted food additive. Ingestion of a large amount may cause digestive tract irritation
Eyes	Eye irritant. Contamination of eyes can result in permanent injury
Skin	Contact with skin may result in irritation

12. ECOLOGICAL INFORMATION

Ecotoxicity	Highly toxic for fish, not considered to be toxic for bacteria.
Persistence/Degradability	Easily biodegradable
Mobility	Soluble in water
Bioaccumulative Potential	No data available
Environmental	Do not discharge into drains, sewers, waterways

13. DISPOSAL CONSIDERATIONS

Spills & Disposal	Disposal of small spillages only. For large spillages powder should be contained then transferred to salvage containers. Residues should be treated as for small spillages. CAUTION: Before dealing with spillage take necessary protective measures, inform others to keep at a safe distance and for flammable materials, shut off all possible sources of ignition.
Disposal	Land fill, sewer (small quantities). Refer to Land Waste Management Authority in your State

CITRIC ACID ANHYDROUS**14. TRANSPORT INFORMATION**

<i>Proper Shipping Name</i>	<i>CITRIC ACID ANHYDROUS</i>
<i>UN.NO.</i>	<i>No data available</i>
<i>Packaging Group</i>	<i>No data available</i>
<i>Hazchem Code</i>	<i>No data available</i>
<i>DG Class</i>	<i>No data available</i>

15. REGULATORY INFORMATION*Regulatory Information*

	<i>Not determined</i>
	<i>Not determined</i>
<i>Hazard Category</i>	<i>Irritant to skin</i>
<i>Risk Statement</i>	<i>Avoid breathing dust.</i>
<i>Safety Statement</i>	<i>Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Wear suitable gloves and eye/face protection. In case of accident or if unwell, contact a doctor or Poisons Information Centre immediately.</i>

16. OTHER INFORMATION

<i>Preparer Signature</i>	<i>Technical Director</i>
<i>Contact</i>	<i>Telephone: 08 8350 9228</i>
	<i>24 hour emergency number 0412 426 697</i>

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