

# TECHNICAL BULLETIN



19 Motivation Dve Wangara, WA, 6065 AUSTRALIA  
T +61 8 9302 4000 | FREE 1800 999 196 | F +61 8 9302 5000

## CITRIC ACID

(Monohydrate and Anhydrous forms)

### A NATURAL ORGANIC ACID

#### MATERIAL & FUNCTION

Citric Acid is also chemically described as 2-Hydroxy-1,2,3-Propanetricarboxylic Acid. It is also available in the monohydrate form. Citric acid is used in many products, from foods to pharmaceuticals and dishwashing agents. Commanding over 70% of the world market for fruit acids, citric acid offers formulators a unique combination of benefits

#### APPLICATIONS

- In the food and beverage industry, citric acid is the preferred acidulant due to its high solubility, pleasant tart taste and excellent flavour blending characteristics.
- Due to its ability to form complexes with trace metals, citric acid is used as an antioxidant synergist. It stabilizes colour, taste, flavour and vitamins in various food products including processed fruit, potatoes, vegetables, fish and meat products.
- As a buffering agent, citric acid and its salts help formulators to maintain optimum pH for maximum stability of active ingredients.
- Citric acid shows the widest buffering capacity (pH 2.5-6.5) of all organic acids, thus giving the food, personal care and pharmaceutical industries the flexibility needed in formulating optimal end products.
- Citric acid is readily biodegradable and safe for both industry and consumers. These properties underline its utility as a food and pharmaceutical ingredient. Citric Acids unique properties are applicable over a broad range of industrial applications. The cleaning, building, textile and paper industries have taken advantage of citric acid's outstanding chelating ability, as well as its non-toxicity, to pioneer new uses for citric acid and citrates. Be it metal plating, the desulphurization of flue gas, oil recovery or the decontamination of radioactive nuclear reactor materials – citric acid is most likely involved.

#### DIRECTION FOR USE

Citric Acid may be dissolved in water. Concentrated solutions may require some warming to speed the rate of dissolution.

**CAUTION:** *Avoid contact with skin and eyes and avoid breathing vapour or spray mist.*

**PACKAGING:** 25 kg bags & 20 kg pails

#### IMPORTANT NOTICE TO CUSTOMER

*Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product which is proven defective. They cannot assume any risk or*

*liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.***

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