



MATERIAL SAFETY DATA SHEET

Citri-Green Solution 50% w/w

SECTION 01 – PRODUCT AND COMPANY INFORMATION

Product Name Citri-Green Solution 50% w/w
Synonyms Citric Acid Solution 50% w/w; Beta-Hydroxytricarboxylic acid;
2-Hydroxy-1,2,3-propanetricarboxylic acid solution
Product Use..... Acidifier, sequestering agent, metal cleaning agent
Supplier Name..... LogiChem Pty Ltd incorporating Jostek Chemicals
Address..... 13 Brinsden Road, off Craig Road, West Kalgoorlie, Australia
PO Box 878 Kalgoorlie WA 6433 Australia
Phone (08) 9091-7708
Fax (08) 9091-7709
24 Hour Emergency Phone..... (08) 9091-7708

SECTION 02 – COMPOSITION

Chemical Components	Cas No.	Proportion
Water	7732-18-5	50%
Citric acid anhydrous	77-92-9	50%

SECTION 03 – HAZARDS IDENTIFICATION

Not classified as hazardous According to Criteria of NOHSC Australia

WARNING ! CAUSES EYE AND SKIN IRRITATION

SECTION 04 – FIRST AID MEASURES

Ingestion Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Seek immediate medical assistance.
Eye Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open Seek immediate medical assistance.
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.
Inhalation Remove victim to fresh air. Employ artificial respiration if indicated. Seek immediate medical assistance.
Advice to Doctor Treat symptomatically.

SECTION 05 – FIRE FIGHTING MEASURES

Flammability This product would not be expected to burn unless all the water is boiled away. The organic residue may ignite. Containers may explode when heated. Runoff may pollute waterways. Fire or heat may produce irritating poisonous and /or corrosive gases.
Extinguishing Media Wear SCBA and structural fire-fighter's uniform.



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Fire fighting procedures 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.

Fire explosion hazard Hazardous combustion products are oxides of carbon.

SECTION 06 – ACCIDENTAL RELEASE MEASURES

Leak / Spill DO NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Absorb with earth, sand or other non-combustible material and transfer to container. Wash area down with excess water.

SECTION 07 – HANDLING & STORAGE

Handling Procedures Use protective equipment noted in section 08. Keep container closed and Upright. Do not drop, roll or skid IBCs. Follow all MSDS and label precautions until container is cleaned, reconditioned or destroyed as container may retain vapour and product residues. Wash thoroughly after handling.

Storage Store in a cool, dry place. Store away from oxidizing agents.

SECTION 08 – PERSONAL PROTECTION AND EXPOSURE CONTROLS

Personal Protective Equipment

Eyes Wear chemical goggles or a face shield when performing operations with the potential for splash. Facilities storing or using this product should have an available eye wash facility and safety shower.

Clothing Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. Wash thoroughly after handling.

Respiratory Under normal conditions of use, respiratory protection is not expected to be required for citric acid solutions. In emergencies and situations where monitoring indicates respiratory protection, wear an approved acid gas respirator plus dust/mist pre-filters.

Engineering Controls

Ventilation requirements Local exhaust is recommended to control airborne levels of vapours, mists or aerosols especially at sources of air contamination such as open containers and process vessels. Otherwise, use general exhaust ventilation.

SECTION 09 – PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour Clear green coloured liquid, with very slight sugary odour.

pH @25° C 0.8

Water Solubility Water soluble

Boiling Point (C) 104° C

Freezing Point Protect from exposure to temperatures below 0° C



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Specific Gravity (Water = 1) @15°C: 1.24
Vapour Density (air = 1)..... 0.62

SECTION 10 – STABILITY AND REACTIVITY

Stability Stable under expected and reasonable conditions of storage and use.

Incompatibility..... Hypochlorites, strong oxidizers, caustics, zinc, aluminium, and mild steel.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity Data (Based on 100% Citric acid dry)

Oral-Rat LD50 11.7g/kg

Acute Health Effects

Ingestion May be harmful if swallowed.

Eye May cause irritation to eyes.

Skin May cause irritation to skin.

Inhalation May cause irritation to respiratory system.

Chronic Health Effects

No applicable information was found concerning any adverse chronic health effects from over exposure to this product.

SECTION 12 – ECOLOGICAL INFORMATION

Citric acid is toxic to fish and other aquatic organisms in high concentrations due to low pH (see Section IX). pH of this product meets regulatory definition for corrosive aqueous solutions.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of all contaminated product, soil, debris, sorbents and other spill clean-up materials in accordance with applicable state or local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Not regulated by The Australian Code for the Transport of Dangerous Goods.

SECTION 15 – OTHER INFORMATION

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.