

SAFETY DATA SHEET

Citri-Green Solution 50% w/w

SECTION 01 - IDENTIFICATION

Product identifier	Citri-Green Solution 50% w/w
Other means of identification	Citric Acid Solution 50% w/w; Beta-Hydroxytricarboxylic Acid; 2-Hydroxy-1,2,3-Propanetricarboxylic Acid Solution
Recommended use of chemical	Acidifier, sequestering agent, metal cleaning agent
Supplier name	Ixom Operations Pty Limited trading as LogiChem
Supplier address	Lot 33 Bulong Road Parkeston-Kalgoorlie, Australia PO Box 878 Kalgoorlie WA 6433 Australia
Supplier phone	1800 033 111 / Int. +61 (0) 3 9663 2130
24 Hour emergency phone	1800 033 111

SECTION 02 - HAZARD(S) IDENTIFICATION

Classification	Serious Eye Damage/Irritation - Category 1 Skin Corrosion/Irritation - Category 3
Signal word	Danger
Hazard statements	H315 - Causes skin irritation H318 - Causes serious eye damage
Precautionary statements	<i>Prevention</i> P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. <i>Response</i> P302 / P352 - IF ON SKIN: Wash with plenty of soap and water. P305 / P351 / P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician. 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. <i>Storage</i> P405 - Store locked up. <i>Disposal</i> P501 - Dispose of contents/container in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.



SECTION 03 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Components</u>	<u>Cas No:</u>	<u>Proportion % w/w</u>
Citric Acid Anhydrous	77-92-9	50.0%
Water	7732-18-5	50.0%

SECTION 04 - FIRST AID MEASURES

Description of necessary first aid measures	Eye - Immediately flush eyes with copious amounts of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical attention. Can cause corneal burns. Ingestion - Rinse mouth with water. Give water to drink provided victim is conscious. Seek medical attention. Inhalation - Remove victim to fresh air. Employ artificial respiration if indicated. Seek immediate medical assistance.
---	--

SAFETY DATA SHEET

Citri-Green Solution 50% w/w

	<i>Skin</i> - Remove contaminated clothing and immediately flush skin with water for at least 20-30 minutes. Discard contaminated leather goods. If swelling, redness, blistering or irritation occurs seek medical advice.
Medical attention / special treatment	Treat symptomatically based on individual reactions of patient and judgement of doctor. Can cause corneal burns.
Symptoms caused by exposure	Not available

SECTION 05 – FIRE FIGHTING MEASURES

Suitable extinguishing media	Small fire: use dry chemical, CO ₂ , 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.
Specific hazards arising from the chemical	Product is a non-combustible liquid. 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. Hazardous combustion products are oxides of carbon.
Special protective equipment & precautions for fire fighters	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves) or chemical splash suit. Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow firefighting water to reach waterways, drains or sewers. All combustion residues and contaminated water from fire-fighting should be disposed of according to regulations.

SECTION 06 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	DO NOT touch or walk through this product as it is slippery when spilt. Stop leak if safe to do so. Personnel involved in the clean-up should wear full protective clothing as listed in section 08.
Environmental precautions	Prevent entry into waterways, drains, confined areas.
Methods and materials for containment and cleaning up.	Absorb with earth, sand or other non-combustible material and transfer to container. Neutralise with lime or soda ash. Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

SECTION 07 – HANDLING AND STORAGE

Precautions for safe handling	Use protective equipment noted in section 08. Keep container closed and upright. Do not drop, roll or skid IBCs. Follow all SDS and label precautions until container is cleaned, reconditioned or destroyed as container may retain vapour and product residues. Wash thoroughly after handling.
Conditions for Safe Storage (Including Any Incompatibles)	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Keep out of direct sunlight. Store away from sources of heat or ignition.

SECTION 08 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters – exposure standards, biological monitoring	No exposure standard has been established for this product by the Safe Work Australia. No information available on biological limit values for this product.
Appropriate engineering controls	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.
Personal protective equipment (PPE)	<i>Clothing</i> – Wear overalls (AS3765/2210). <i>Eyes</i> – Wear chemical goggles (AS1336/1337).

SAFETY DATA SHEET

Citri-Green Solution 50% w/w

Footwear - Wear safety footwear (AS3765/2210).
Gloves - Wear impervious gloves (AS2161).
Respirator - If risk of inhalation exists, wear suitable mist respirator (AS1715/1716).

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear green coloured liquid
Odour	Very slight sugary odour
Odour threshold	Not available
pH	0.8 (25°C)
Melting point/freezing point	Protect from exposure to temperatures below 0°C
Specific gravity (water = 1)	@15°C: 1.24
Boiling point and boiling range	104°C
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure (hPa @ 20°C)	Not available
Vapour density	0.62 (air=1)
Relative density	Not available
Solubility(ies) (water)	Soluble
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Specific heat value	Not available
Particle size	Not available
Volatile organic compounds content	Not available
% volatile	Not available
Saturated vapour concentration	Not available
Release of invisible flammable vapours and gases	Not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Will slowly corrode mild steel.
Chemical stability	Stable under expected and reasonable conditions of storage and use.
Conditions to avoid	Avoid exposure to heat, sources of ignition, open flames. Temperatures below 0°C.
Incompatible materials	Hypochlorites, strong oxidisers, caustics, zinc, aluminium, alkalis and mild steel.
Hazardous decomposition products	On burning will emit toxic fumes, including those of oxides of carbon.

SECTION 11- TOXICOLOGICAL INFORMATION

Information on routes of exposure	<p>Eyes - Risk of serious eye damage. A severe eye irritant. Contamination of eyes may result in permanent injury.</p> <p>Ingestion - Swallowing may result in irritation of the gastrointestinal tract. Frequent or large oral doses can cause tooth erosion.</p> <p>Inhalation - Breathing mists or aerosols may produce respiratory irritation.</p> <p>Skin - Contact with skin may result in mild irritation.</p>
Symptoms related to exposure	Not available
Numerical measures of toxicity	<p>No LD50 data available for the product.</p> <p>For the constituent Citric Acid: Oral LD50 Rat: 3000 mg/kg</p> <p>Skin corrosion / irritation: Mild irritant (rabbit)</p> <p>Serious eye damage / irritation: Severe irritant (rabbit)</p>

SAFETY DATA SHEET

Citri-Green Solution 50% w/w

	Respiratory or skin sensitisation: Not classified
Immediate, delayed and chronic health effects from exposure	No applicable information was found concerning any adverse chronic health effects from over exposure to this product.
Exposure levels	Not available
Interactive effects	Not available
Data limitations	Not available

SECTION 12- ECOLOGICAL INFORMATION

Ecotoxicity	Citric acid is toxic to fish and other aquatic organisms in high concentrations due to low pH. pH of this product meets regulatory definition for corrosive aqueous solutions.
Persistence and degradability	Biodegradable.
Bioaccumulative potential	Not expected to bioconcentrate or bioaccumulate.
Mobility in soil	Not available
Other adverse effects	Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Safe handling and disposal methods	Dispose of all contaminated product, soil, debris, sorbents and other spill clean-up materials in accordance with applicable state or local regulations.
Disposal of any contaminated packaging	All empty packaging should be disposed of in accordance with local, State, and Federal regulations or recycled/reconditioned at an approved facility.
Environmental regulations	If utilisation or recycling of the product is not possible, it should be disposed of in accordance with all local, State and Federal regulations.

SECTION 14 - TRANSPORT INFORMATION

UN number	Not applicable
Proper shipping name	Citric Acid Solution
Transport hazard class(es)	Not applicable
Subsidiary risk	Not applicable
Packaging group	Not applicable
Environmental hazards	Not applicable
Special precautions during transport	Not applicable
Hazchem code	Not applicable

SECTION 15 - REGULATORY INFORMATION

AICS name	1,2,3-PROPANETRICARBOXYLIC ACID, 2-HYDROXY-
Poisons Schedule number	Not scheduled

SECTION 16 - OTHER INFORMATION

SDS creations date	14 December 2006
Most recent revision date	30 January 2018
Revision number	013 THIS ISSUE NUMBER REPLACES ALL ISSUES
Reason for revision	Annual Update
Contact person	Ixom 1800 033 111

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.

END OF SDS