

CITRIC ACID LIQUID 50% FG

1. Identification of the material and supplier

Names

Product name : CITRIC ACID LIQUID 50% FG
ADG : Not regulated.
Supplier : ECOLAB PTY LTD (A.B.N. 59 000 449 990)
 6 Hudson Ave, Castle Hill NSW 2154
 Customer Service phone: 1 800 022 002
 Free Fax Number: 1 800 655 679
Emergency telephone number : 1 800 124 170

Uses

Material uses : Cleaning product
Date of issue : **06-August-2007**

2. Hazards identification

Statement of hazardous/dangerous nature : Classified as hazardous according to the criteria of NOHSC and not classified as dangerous goods according to the ADG Code.
Risk phrases : R36/38- Irritating to eyes and skin.
Safety phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S37/39- Wear suitable gloves and eye/face protection.
 S46- If swallowed, seek medical advice immediately and show this container or label.

3. Composition/information on ingredients

Ingredient name	CAS number	Concentration
citric acid	77-92-9	30 - 60

Other ingredients, determined not to be hazardous according to NOHSC criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.
Inhalation : Remove to fresh air. Obtain medical attention if symptoms occur.
Ingestion : Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26).
Notes to physician : No specific treatment. Treat symptomatically.

5. Fire-fighting measures

Extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
Fire/explosion hazards : No specific hazard.
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Hazardous Decomposition Products : Decomposition products may include the following materials: carbon oxides (CO, CO₂).

6 . Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from incompatibles, such as strong alkali, chlorine and chlorite.

8 . Exposure controls/personal protection

- Occupational exposure limits** : **No exposure standard allocated.**
- Engineering measures** : None required. However, use of adequate ventilation is good industrial practice.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

- Eyes** : Safety glasses.
- Hands** : Wear any impervious glove. Recommended: PVC gloves.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.
- Skin** : No special protective clothing is required.

9 . Physical and chemical properties

- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Sweetish.
- Boiling point** : >100°C (>212°F)
- Melting point** : Not available.

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Vapour pressure	: Not available.
Specific gravity	: 1.24
Flash point	: Product does not support combustion.
Vapour density	: Not available.
pH	: 0.8 to 0 [Conc. (% w/w): 100%]
Solubility	: Easily soluble in cold water, hot water.

10 . Stability and reactivity

Stability	: The product is stable under normal ambient conditions of temperature and pressure.
Conditions to Avoid	: None identified.
Materials to avoid	: strong alkali, chlorine, chlorite.
Hazardous Decomposition Products	: Decomposition products may include the following materials: carbon oxides (CO, CO ₂).
Hazardous Reactions	: Contact with chlorine or chlorite liberates very toxic gas. May react or be incompatible with alkalis.

11 . Toxicological information

Potential acute health effects

Inhalation	: Mist/spray may irritate the upper respiratory system.
Ingestion	: Exposure can cause nausea, headache and vomiting.
Skin Contact	: Moderately irritating to the skin.
Eye contact	: Moderately irritating to eyes.

Potential chronic health effects

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

12 . Ecological information

Ecotoxicity data	: Not available.
Persistence/degradability	: Not available.
Mobility	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

13 . Disposal considerations

Methods of disposal	: Do not reuse product containers. The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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14 . Transport information

Regulation	UN number	Proper shipping name	Class	Packing group	Additional information
ADG	-	Not regulated.	-(-)	-	-
IMDG	-	Not regulated.	-(-)	-	-

15 . Regulatory information

Australia inventory (AICS) : All substances are listed on AICS or exempt.

AU Classification : Xi - Irritant
R36/38- Irritating to eyes and skin.

Standard for the Uniform Scheduling of Drugs and Poisons

Not scheduled

Control of Scheduled Carcinogenic Substances

<u>Ingredient name</u>	<u>Schedule</u>
No listed substance	

16 . Other information

Prepared by : Regulatory Affairs

Date of previous issue : **First issue**

Change Made : New format

References

- ADG Code - Australian Transport of Dangerous Goods
- Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment
- Approved Criteria for Classifying Hazardous Substances
- List of Designated Hazardous Substances
- National Code of Practice for the Labelling of Workplace Substances
- National Code of Practice for the Preparation of Material Safety Data Sheets
- National Model Regulations for the Control of Scheduled Carcinogenic Substances
- National Model Regulations for the Control of Workplace Hazardous Substances
- Standard for the Uniform Scheduling of Drugs and Poisons

Disclaimer

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.