



# SAFTEY DATA SHEET

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product Identifier

**Product Name** Citric Acid Solution 50%  
**Synonym(s)** CIT50-20L, CIT50-1000L

### 1.2 Uses and uses advised against

**Use(s)**

### 1.3 Details of the supplier of the product

**Supplier Name** Northern Chemicals Pty Ltd  
**Address** 157 Hartley St, Cairns, QLD, 4870, Australia  
**Telephone** (07) 4035 4622  
**Fax** (07) 4035 4932  
**Email** [enquiries@northernchemicals.com.au](mailto:enquiries@northernchemicals.com.au)  
**Website** [www.northernchemicals.com.au](http://www.northernchemicals.com.au)

### 1.4 Emergency telephone number(s)

**Emergency** (07) 4035 4622

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS

**GHS classification(s)** Serious Eye Damage/Irritation - Category 1  
Skin Corrosion/Irritation - Category 3

### 2.2 Label elements

**Signal Word** DANGER

### Pictogram(s)



### Hazard statement(s)

H315 Causes skin irritation.  
H318 Causes serious eye damage.

### Prevention statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P264 Wash contacted areas thoroughly after handling.

### Response statement(s)

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 - P313 If eye irritation persists: Get medical advice/attention.  
P310 Immediately call a POISON CENTER or doctor/physician.

**Storage statement(s)**

P403 Store locked up

**Disposal statement(s)**

P501 Dispose of contents/container in accordance with local regulations

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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**3.1 Substances / Mixtures**

INGREDIENT	CAS NUMBER	CONTENT
CITRIC ACID	77-92-9	50%
WATER	7732-18-5	50%

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**4. FIRST AID MEASURES**

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**4.1 Description of first aid measures**

Eye	Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre. Continue to wash with large amounts of water until medical help is available. Can cause corneal burns.
Inhalation	Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin	Remove contaminated clothing. Flush affected area with plenty of running water for at least 15 minutes. If irritation occurs, seek medical attention.
Ingestion	Rinse mouth with water. Give a glass of water. Do NOT induce vomiting. Seek medical attention.
First aid facilities	Eye wash facilities should be available.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient. Can cause corneal burns.

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**5. FIRE FIGHTING MEASURES**

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**5.1 General Measures**

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.  
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**5.2 Flammability Conditions**

Product is a combustible liquid.

**5.3 Extinguishing media**

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).  
Keep containers cool with water spray.

**5.4 Fire and Explosion Hazard**

Non-combustible liquid.

**5.5 Hazardous Products of Combustion**

Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. On burning will emit toxic fumes, including those of oxides of carbon.

**5.6 Special Fire Fighting Instructions**

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 fire fighting water to reach waterways, drains or sewers. All combustion residues and contaminated water from fire-fighting should be disposed of according to regulations.

**5.7 Personal Protective Equipment**

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit.

**5.8 Flash Point**

No data available

**5.9 Lower Explosion Limit**

No data available

**5.10 Upper Explosion Limit**

No data available

**5.11 Auto Ignition Temperature**

No data available

**5.12 Hazchem code**

No data available

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**6. ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid accidents, clean up immediately. Increase ventilation. Avoid walking through spilled product as it is slippery when spilt. Use clean, non-sparking tools and equipment. Shut off all possible sources of ignition.

**6.2 Clean Up Procedures**

Use absorbent (soil, sand or other inert material). Neutralise with lime or soda ash. Collect and seal in properly labelled containers or drums for disposal.

**6.3 Containment**

Stop leak if safe to do so. Isolate the danger area. Contain - prevent run off into drains and waterways.

**6.4 Decontamination**

Wash area down with excess water.

**6.5 Environmental Precautionary Measures**

Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority.

**6.6 Evacuation Criteria**

Evacuate all unnecessary personnel.

**6.7 Personal Precautionary Measures**

Personnel involved in the clean up should wear full protective clothing as listed in section 8.

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**7. HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product fumes, vapours, mists or aerosols.

**7.2 Conditions for safe storage, including any incompatibilities****Suitable Container**

Store in original packaging as approved by manufacturer.

**Storage**

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. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 General

No exposure standard has been established for this product by the Australian Safety and Compensation Council(ASCC)

### 8.2 Exposure Limits

No data available.

### 8.3 Biological Limits

No information available on biological limit values for this product.

### 8.4 Engineering Measures

Use in well ventilated areas. If inhalation risk exists: Use with local exhaust ventilation or while wearing suitable mist respirator. Keep containers closed when not in use. A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

### 8.4 Personal Protective Equipment



#### Eye / Face

Chemical splash goggles and face shield (AS1336/1337).

#### Skin Protection

Available information (2) suggests that gloves made from laminated LCP(TM) film, Nitrile, unsupported Neoprene, supported PVC, natural rubber latex or Neoprene latex blend should be suitable for intermittent

#### Respiratory Protection

Wear an approved respirator with suitable filter for organic gases and vapours if engineering controls are inadequate (AS1715/1716).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Liquid	Relative density	1.25
Physical state	Liquid	Partition coefficient	N/A
Odour	Characteristic	Auto-ignition temperature (°C)	N/A
pH	1.8 1% w/v	Decomposition temperature	N/A
Melting point (°C)	N/A	Viscosity	N/A
Boiling point (°C)	N/A	Molecular weight	N/A
Flash point (°C)	N/A	Taste	N/A
Evaporation rate	N/A	Explosive properties	N/A
Flammability	N/A	Oxidising properties	N/A
Upper Explosive Limit	N/A	Surface Tension	N/A
Lower Explosive Limit	N/A	Volatile Component	N/A
Vapour density	N/A	Gas group	N/A
Solubility in water	Miscible with water		

## 10. STABILITY AND REACTIVITY

### 10.1 General Information

Reactivity: Will slowly corrode mild steel.

### 10.2 Chemical stability

Product is stable under normal conditions of use, storage and temperature.

### 10.3 Possibility of hazardous reactions

Stable under normal conditions of use.

**10.4 Conditions to avoid**

Avoid exposure to heat, sources of ignition, open flames.

**10.5 Incompatible materials**

Incompatible with alkalis, strong oxidising agents, mild steel.

**10.6 Hazardous decomposition products**

On burning will emit toxic fumes, including those of oxides of carbon.

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**11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects****General Information**

No LD50 data available for the product.  
For the constituent Citric Acid: Oral LD50 Rat: 3000 mg/kg  
Skin corrosion / irritation: Mild irritant (rabbit)  
Serious eye damage / irritation: Severe irritant (rabbit)  
Respiratory or skin sensitisation: Not classified  
Chronic effects: No information available for the product.

**Eye Irritant**

Risk of serious eye damage. A severe eye irritant. Contamination of eyes may result in permanent injury.

**Ingestion**

Swallowing may result in irritation of the gastrointestinal tract. Frequent or large oral doses can cause tooth erosion.

**Inhalation**

Breathing mists or aerosols may produce respiratory irritation.

**Skin Irritant**

Contact with skin may result in mild irritation.

**Carcinogenicity:**

No Data Available

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**12. ECOLOGICAL INFORMATION**

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**12.1 Ecotoxicity**

Aquatic toxicity: Not expected to be harmful to aquatic life.

**12.2 Persistence and degradability**

The material is biodegradable.

**12.3 Bioaccumulative potential**

Not expected to bioconcentrate or bioaccumulate.

**12.4 Mobility in soil**

No Data Available

**12.5 Other adverse effects**

Data not available.

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**13. DISPOSAL CONSIDERATIONS**

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**13.1 General Information**

If utilisation or recycling of the product is not possible, it should be disposed of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

**13.2 Special Precautions for Land Fill**

Contact a specialist disposal company or the local waste regulator for advice.

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**14. TRANSPORT INFORMATION**

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**UN Number:** N/A  
**Shipping Name:** Citric Acid Solution  
**Dangerous Goods Class:** N/A  
**Packing Group:** N/A  
**Hazchem Code:** N/A

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**15. REGULATORY INFORMATION**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Poisons Schedule:</b>	Not Scheduled
<b>Australian Inventory of Chemical Substances Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):</b>	Listed
	Not Listed

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**16. OTHER INFORMATION**

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Not applicable.