

**1. Identification**

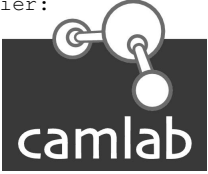
Product Code **1110399**

Product Name **CITRIC ACID H2O pure**

Molecular Formula **C(OH)(COOH)(CH<sub>2</sub>COOH)<sub>2</sub>H<sub>2</sub>O =210.14**

CAS Number **5949-29-1**

Supplier: **CAMLAB LIMITED**  
**Norman Way Industrial Estate**  
**Over**  
**Cambridge**  
**England**  
**CB4 5WE**



Phone **01954 233110**

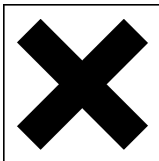
Fax **01954 233101**

Emergency Telephone **08:00-17:00 01954 233110**  
**24hr 112**  
**(Have this document to hand)**

**2. Composition**

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Citric acid	5949-29-1	201-069-1	100.0%	Xi : R36	N/A

**3. Hazards Identification**



Irritating to eyes.

**4. First Aid Measures**

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

**5. Fire Fighting Measures**

Hazards May support combustion at high temperatures.

Extinguishing Media Water spray.

Unsuitable Media Nothing specified.

**6. Accidental Release Measures**

Personal Protection Presents no major hazards.

Enviromental Presents no major environmental hazard.

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

## 6. Accidental Release Measures (continued)

Minor Spillage            Wash area down with copious amounts of water.

## 7. Storage & Handling

Handling Precautions    Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.  
  
                                  Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

Storage Conditions      Well ventilated, cool, dry storage .

## 8.1 Workplace Exposure Limits

No prescribed exposure limits available

## 8.2 Personal Protection

Respiratory              If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hands                      Wear gloves.

Eyes                        Use chemical splash proof glasses or goggles.

Skin                        Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

## 9. Physical & Chemical Properties

Appearance              White crystalline powder or granules.  
Odour                        No specific odour.  
pH                            2 (5% solution)  
Boiling point              Not available  
Melting point              153.0 °C  
Flash point                Not available  
Upper Flammable Limit    Not available  
Lower Flammable Limit    Not available  
Auto Ignition              345.0 °C  
Explosive properties      No.  
Oxidising Properties      No.  
Vapour Pressure            Not available  
Relative Density            1.5450  
Water Solubility            60%

## 10. Stability & Reactivity

Chemical Stability        Stable under normal conditions

Conditions to Avoid      No specific conditions.

Materials to Avoid        Strong oxidising agents. Alkalis. Reducing agents.

Hazardous  
Decomposition Products    None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

## 11. Toxicological Information

Eyes                        Contact with the solid or dust may be irritating to the eyes.

Skin                        Contact with the solid or dust may be irritating to the skin.

LD50 Skin                 Not available

Ingest                     Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hyperpnoea and convulsions.

LD50 Ingest                Oral Mouse 5040mg/Kg

Inhalation                Inhalation of dust may produce irritation of the eyes, nose, throat and respiratory tract.

## 11. Toxicological Information (continued)

Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.
Other Information	Used in the food industry.

## 12. Ecological

Readily bio-degraded in the environment. Does not bioaccumulate. Practically non toxic to: fish LC50- >100mg/l, daphnia EC50 >100mg/l.

## 13. Disposal Considerations

Disposal Methods	Do not dispose of as domestic waste. Dispose of to a licensed land fill site.
Contaminated Packaging	Wash out containers with water. Use a licensed waste disposer.

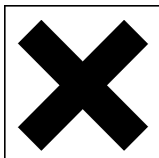
## 14. Transport Information

Proper Shipping Name	Non-restricted
UN Number	Non-restricted
UN Classification	None
Subsidiary Risk	None
Flash Point	Not available
Packing Group	None
Transport Category	None
Marine pollutant	No
ADR Hazard ID	Non-restricted

## 15. Regulatory Information

Labelling	Irritant.
Classification	

Label Symbols Xi



Risk & safety Phrases Irritating to eyes. Avoid contact with skin and eyes.

EEC Number 201-069-1

## 16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

Revision Date: 4/09/08.

Data reviewed and PDF file generated: 17/03/10.

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