

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: CITRIC ACID ANHYDROUS
CAS number: 77-92-9
EINECS number: 201-069-1
Synonyms: 2-HYDROXY-PROPANE TRICARBOXYLIC ACID
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2. HAZARDS IDENTIFICATION

3. COMPOSITION / INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: Harmful If Swallowed In Large Quantities.
Inhalation: May cause irritation to the respiratory system.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash the affected area with water
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: After large amounts give antacid or milk.
Inhalation: Remove from exposure.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use extinguishing media appropriate to the surrounding conditions.
Exposure hazards: In combustion emits toxic fumes.
Protection of fire-fighters: Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: When handling observe usual precautionary measures for chemicals.

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: No special handling precautions are necessary.

Storage conditions: Store in a cool, dry area. Avoid humidity and high temperature, material is slightly hygroscopic. Avoid incompatible materials and conditions - see section 10 of SDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hand protection: Protective gloves.

Eye protection: Safety goggles.

Skin protection: Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Crystalline powder.

Colour: White

Odour: Odourless

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: 162g per 100 ml water @ 25 deg C.

Melting point/range°C: 153

Vapour pressure: 6.8

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: High temperatures.

Materials to avoid: DO NOT MIX WITH ANY OTHER CHEMICALS.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: CITRIC ACID ANHYDROUS
IVN MUS LD50 961 mg/kg
IVN RAT LD50 885 mg/kg
ORL MUS LD50 5040 mg/kg
ORL RAT LD50 11700 mg/kg

[cont...]

12. ECOLOGICAL INFORMATION

Ecotoxicity:	CITRIC ACID ANHYDROUS BACTERIA EC0 10000 mg/l FISH LD50 440 - 706 mg/l
Mobility:	Soluble in water.
Persistence and degradability:	Rapidly biodegradable.
Bioaccumulative potential:	No bioaccumulation potential.
Other adverse effects:	Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Disposal operations:	Dispose of through approved waste disposal operatives.
Disposal of packaging:	Dispose of as normal industrial waste.
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

IMDG / IMO

IATA / ICAO

15. REGULATORY INFORMATION

Note:	The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.
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16. OTHER INFORMATION

Legal disclaimer:	The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.
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