

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

Product form: Substance
Product name: CITRIC ACID ANHYDROUS
EINECS number: 201-069-1
CAS number: 77-92-9
REACH registered number(s): 01-2119457026-42-XXXX

Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses:

Use of substance / mixture: Sweetener in food and pharmaceutical applications sequestering agent.
Pharmaceutical and chemical applications.
Detergent.

Uses advised against: No additional information available.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Serious eye damage/eye irritation, Category 2: H319

Full text of H- and EUH- statements: See section 16.

Adverse physicochemical, human health and environmental effects: Causes serious eye irritation.

Label elements:

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictograms CLP:



GHS07

Signal words: Warning.

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Hazard statements:	H319: Causes serious eye irritation. H335: May cause respiratory irritation.
Precautionary statements:	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear eye protection. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTRE or doctor if you feel unwell. P337+313: If eye irritation persists: Get medical advice/attention. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405: Store locked up. P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.
Other hazards:	Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Name:	CITRIC ACID ANHYDROUS
CAS No.:	77-92-9
EC-No.:	201-069-1

Name	Product identifier	%	Classification according to Regulation (EC) No.1272/2008 [CLP]
Citric Acid Anhydrous Powder	-	100	Not classified

Mixtures: Not applicable.

4. FIRST AID MEASURES

Description of first aid measures:

First aid measures after inhalation: Move the affected person away from the contaminated area and into the fresh air. Call a doctor.

First aid measures after skin contact: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

First aid measures after eye contact: Rinse cautiously with water for several minutes. Call a doctor.

First aid measures after ingestion: Rinse mouth out with water. Call a doctor.

Most important symptoms and effects, both acute and delayed:

Symptoms/effects after inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact: May cause irritation to skin.

Symptoms/effects after eye contact: Eye irritation. redness, itching, tears.

Symptoms/effects after ingestion: May cause irritation to the digestive tract.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

[cont...]

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5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Special hazards arising from the substance or mixture:

Hazardous decomposition products in case of fire: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

Advice for fire-fighters:

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Emergency procedures: Avoid dust production.

For emergency responders:

Protective equipment: For further information refer to Section 8: "Exposure controls/personal protection."

Environmental precautions: Do not discharge into drains or rivers.

Methods and material for containment and cleaning up:

Methods for cleaning up: Mechanically recover the product.
Transfer the product into a spare container: Suitably labelled.

Other information: Dispose of materials or solid residues at an authorised site.

Reference to other sections: No additional information available.

7. HANDLING AND STORAGE

Precautions for safe handling: Ensure good ventilation of the workstation. Avoid contact with skin and eyes. Avoid creating or spreading dust.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Specific end use(s): No additional information available.

[cont...]

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters:**

National occupational exposure and biological limit values: No additional information available.

Recommended monitoring procedures: No additional information available.

Air contaminants formed: No additional information available.

DNEL and PNEC:

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PNEC (Water):

PNEC aqua (fresh water): 0.44 mg/l

PNEC aqua (marine water): 0.044 mg/l

PNEC (Sediment):

PNEC sediment (fresh water): 34.6 mg/kg dwt

PNEC sediment (marine water): 3.46 mg/kg dwt

PNEC (Soil):

PNEC soil: 33.1 mg/kg dwt

PNEC (STP):

PNEC sewage treatment plant: > 1000 mg/l

Control banding: No additional information available.

Exposure controls:

Appropriate engineering controls: Ensure good ventilation of the workstation.

Personal protection equipment:**Personal protective equipment symbols:**

Eye and face protection: Safety glasses with side shields. Eye wash.

Skin and body protection: Wear suitable protective clothing.

Hand protection: Protective gloves.

Respiratory protection: Respiratory protective device with particle filter. Particle filter class P1 (EN143).

Thermal hazards: No additional information available.

Environmental exposure controls: Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties:**

Physical state:	Solid
Colour:	White
Odour:	Odourless
Odour threshold:	No data available
pH:	1.7
Relative evaporation rate (butyl acetate=1):	No data available
Melting point:	153
Freezing point:	Not applicable
Boiling point:	No data available
Flash point:	Not applicable
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Non-flammable
Vapour pressure:	No data available
Relative density at 20°C:	No data available
Relative density:	1.66 @ 10% solution
Solubility:	Very soluble
Partition coefficient n-octanol/water (Log Pow):	No data available
Viscosity, kinematic:	Not applicable
Viscosity, dynamin:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits:	Not applicable
Other information:	No additional information available.

10. STABILITY AND REACTIVITY

Reactivity:	No additional information available.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No additional information available.
Conditions to avoid:	Heat. Moist air.
Incompatible materials:	Strong oxidising agents. Strong acids.
Hazardous decomposition products:	
On combustion releases:	Toxic fumes. Carbon dioxide. Carbon monoxide.

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects:**

Acute toxicity (oral): Not classified.

Acute toxicity (dermal): Not classified.

Acute toxicity (inhalation): Not classified.

Citric acid anhydrous (77-92-9):

LD50 oral: 5400 mg/kg

LD50 dermal: >2000 mg/kg

Skin corrosion/irritation: Not classified.

pH: 1.7

Serious eye damage/irritation: Causes serious eye irritation.

pH: 1.7

Respiratory or skin sensitisation: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

STOT- single exposure: Not classified.

STOT- repeated exposure: Not classified.

Aspiration hazard: Not classified.

Viscosity, kinematic: Not applicable.

12. ECOLOGICAL INFORMATION**Toxicity:**

Ecology- general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified.

Hazardous to the aquatic environment, long-term (chronic): Not classified.

Not rapidly degradable.

Citric Acid Anhydrous (77-92-9):

LC50 – Fish [1]: 880 mg/l

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No additional information available.

Mobility in soil:

Ecology – soil: Soluble in water.

Results of PBT and vPvB assessment: No additional information available.

Other adverse effects: No additional information available.

[cont...]

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Product/packaging disposal recommendations: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

14. TRANSPORT INFORMATION

In accordance with ADR/IMDG/IATA/ADN/RID: Not regulated.

15. REGULATORY INFORMATION

Chemical safety assessment: A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

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.

16. OTHER INFORMATION

Full text of H- and EUH- statement:

Eye Irrit. 2: Serious eye damage/irritation, Category 2.

H319: Causes serious eye irritation.

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.