

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: CITRIC ACID ANHYDROUS POWDER
CAS number: 77-92-9
EINECS number: 201-069-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Hexeal Chemicals Limited
21 Mackintosh Road
Rackheath Ind Est
Norwich
Norfolk
NR13 6LJ
United Kingdom
Tel: 01603 604200
Fax: 01603 604201
Email: info@hexchem.co.uk

1.4. Emergency telephone number

Emergency tel: 01603 604200

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319

Classification under CHIP: Xi: R36

Most important adverse effects: Causes serious eye irritation.

2.2. Label elements

Label elements under CLP:

Hazard statements: H319: Causes serious eye irritation.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



Precautionary statements: P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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2.3. Other hazards

Other hazards: Irritating to eyes. Irritating to respiratory system. Irritating to skin.

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: CITRIC ACID ANHYDROUS POWDER

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove contaminated clothing immediately. Wash immediately with plenty of soap and water. Wash/Clean clothing and shoes before reuse.

Eye contact: Bathe the eye with running water for 15 minutes. Remove any contact lenses and open eyes wide apart. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact. May be harmful if absorbed through skin.

Eye contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed. May cause mild irritation of the gastrointestinal tract.

Inhalation: Harmful if inhaled. May cause irritation to the respiratory system.

Delayed / immediate effects: No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Carbon dioxide. Dry chemical powder. Foam

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.
Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Inform the relevant authorities if the product has caused environmental pollution. (sewers, waterways, soil or air)

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Sweep up or vacuum up spillage. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water. Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids. Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: wear suitable respiratory protection when aerosols or mist are present. Particle filter class P1 (EN143).

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Hand protection: Sufficient protection is given wearing suitable protective gloves checked according to i.e EN 374, in the event of risk of skin contact with the product. Nitrile gloves. Breakthrough time of the glove material > 1 hour.

Eye protection: Safety goggles.

Skin protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impermeable protective clothing.

Environmental: Ensure all engineering measures mentioned in section 7 of SDS are in place. Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Crystalline powder

Colour: White

Solubility in water: Soluble

Melting point/range°C: 153-159

Flammability limits %: lower: 8

pH: 1.8

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid: Oxidising agents. Reducing agents. Bases. Nitrates.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

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Toxicity values:

Route	Species	Test	Value	Units
ORL	MUS	LD50	5040	mg/kg
ORL	RAT	LD50	3	gm/kg
SCU	RAT	LD50	5500	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Based on test data

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact. May be harmful if absorbed through skin.

Eye contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed. May cause mild irritation of the gastrointestinal tract.

Inhalation: Harmful if inhaled. May cause irritation to the respiratory system.

Delayed / immediate effects: No data available.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	48H LC50	440	mg/l
Daphnia magna	Static 24h	1535	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

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Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Disposal of packaging: Burn in a chemical incinerator equipped with afterburners and scrubbers.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Phrases used in s.2 and 3: H319: Causes serious eye irritation.
R36: Irritating to eyes.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.