

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name:** CITRIC ACID**REACH registered number(s):** 01-2119457026-42-XXXX**CAS number:** 77-92-9**EINECS number:** 201-069-1**Synonyms:** 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID

FRUIT ACID

THIS DATA SHEET COVERS BOTH ANHYDROUS &amp; MONOHYDRATE FORMS

**INCI name:** CITRIC ACID**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of substance / mixture:** pH adjustment, Descaling, Food Additive.**1.3. Details of the supplier of the safety data sheet****Company name:** Naissance

Unit 9 Milland Road

Industrial Estate

Neath

Neath Port Talbot

SA11 1NJ

**Tel:** 0800 0430 826**Email:** info@enaissance.co.uk**1.4. Emergency telephone number****Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Eye Irrit. 2: H319**Most important adverse effects:** Causes serious eye irritation.**2.2. Label elements****Label elements:****Hazard statements:** H319: Causes serious eye irritation.**Hazard pictograms:** GHS07: Exclamation mark

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## CITRIC ACID

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**Signal words:** Warning

**Precautionary statements:** P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face 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.

P332+313: If skin irritation occurs: Get medical advice/attention.

### 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.1. Substances

**Chemical identity:** CITRIC ACID ANHYDROUS POWDER

**CAS number:** 77-92-9

**EINECS number:** 201-069-1

**REACH registered number(s):** 01-2119457026-42-XXXX

**Contains:** Citric Acid:- CAS nos in 2 forms - 77-92-9(Anhydrous) & 5949-29-1 (Monohydrate)

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. If irritation persists, seek medical advice. There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact. Repeated or long exposure can cause reddening, burning and blisters.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. There may be irritation and redness. Eyes may water profusely. May cause mechanical irritation to the eyes. Eye bathing equipment should be available on the premises.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If irritation develops or persists seek medical attention. May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. May cause irritation of the mucous membranes and respiratory system. If irritation persists, seek medical attention.

[cont...]

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

**Skin contact:** There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact. Repeated or long exposure can cause reddening, burning and blisters.

**Eye contact:** There may be irritation and redness. The eyes may water profusely. May cause mechanical irritation to the eyes.

**Ingestion:** No data available. May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** No data available. May cause irritation of the mucous membranes and respiratory system.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Immediate effects can be expected after short term exposure.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

### 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.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Wear suitable protective clothing. Do not attempt to take action without suitable protective clothing.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

### 6.3. Methods and material for containment and cleaning up

**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. Product may be dampened with a little water to reduce dust formation.

### 6.4. Reference to other sections

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

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## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Wear suitable protective clothing. Ensure there is sufficient ventilation of the area. Avoid the spread or formation of dust in the air. Avoid contact with the material and breathing its dust.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep container tightly closed. Avoid contact with water or humidity. Avoid incompatible materials and conditions - see section 10 of SDS.

**Suitable packaging:** Paper. Plastic or poly-lined bags or kegs.

### 7.3. Specific end use(s)

**Specific end use(s):** No special requirement.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Workplace exposure limits:

#### Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	4mg/m <sup>3</sup>	-

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Respiratory protection:** Respiratory protective device with particle filter.

**Hand protection:** Gloves (acid resistant).

**Eye protection:** Safety goggles. Face-shield. Ensure eye bath is to hand.

**Skin protection:** Protective clothing. Boots. Ensure safety shower is to hand.

**Environmental:** No special requirement.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Crystal or crystalline powder.

**Colour:** Colourless to white.

**Odour:** Odourless

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Highly soluble

**Also soluble in:** Ethanol. Diethyl ether.

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**Boiling point/range°C:** Decomposes

**Melting point/range°C:** 153°C

**Flammability limits %: lower:** Not applicable.

**Flash point°C:** ~345

**Relative density:** 1.665

**pH:** 2.3 (10g/l@20degC)

## 9.2. Other information

**Other information:** Not applicable.

## 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:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Moist air. Humidity. Moisture Extremes of temperature

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Bases. Acetates. Metal Nitrates. Potassium Tartrate. Sulphides.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
ORAL	MUS	LD50	5040	mg/kg
ORAL	RBT	LD50	11700	mg/kg

#### Hazardous ingredients:

##### CITRIC ACID ANHYDROUS POWDER

ORL	MUS	LD50	5040	mg/kg
ORL	RAT	LD50	3	gm/kg
SCU	RAT	LD50	5500	mg/kg

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## Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated

## Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact. Repeated or long exposure can cause reddening, burning and blisters.

**Eye contact:** There may be irritation and redness. The eyes may water profusely. May cause mechanical irritation to the eyes.

**Ingestion:** No data available. May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** No data available. May cause irritation of the mucous membranes and respiratory system.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Other information:** Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	440-706	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Soluble in water.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity. Prevent surface contamination of soil, ground & surface water Do not allow product to enter streams sewers or other water ways Large doses causes high/low pH which may affect effluent and sewage treatment processes. Discharge of large quantities may kill fish and other aquatic life due to increase/decrease in pH.

## Section 13: Disposal considerations

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## 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Dispose of waste and residue according to local authority requirements

**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:** None specific to be mentioned No specific applicable legislation.

### 15.2. Chemical Safety Assessment

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

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

CAS Number differs for the two forms- 77-92-9 (Anhydrous) & 5949-29-1 (Monohydrate)

**Phrases used in s.2 and s.3:** H319: Causes serious eye irritation.

**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.