

Safety Data Sheet

In accordance with REACH Regulation EC No.1907/2006

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

1.1. Product identifier

Product name:	Citric Acid
CAS number:	77-92-9 (Anhydrous) / 5949-29-1 (Monohydrate)
EINECS number:	201-069-1
Synonyms:	2-hydroxypropane-1,2,3-tricarboxylic Acid Fruit Acid This safety data sheet covers both the anhydrous and 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:	Bath and Body Base Ltd 2A Laurel Way Bishop Auckland Co. Durham DL14 7NF
Tel:	07493 064263
Email:	technical@bathandbodybase.com

1.4. Emergency telephone number

Emergency tel: 07493 064263

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP:	Eye Irrit. 2: H319
Classification under CHIP:	Xi: R36/38
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

Precautionary statements:

P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs, get medical advice/attention.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: Citric Acid

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 develops or persists, seek medical attention.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

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.

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. If symptoms develop seek medical attention.

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: May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: 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: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Alcohol or polymer foam. 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 - see Section 8 of SDS. Do not create dust.

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 and 13.

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 formation or spread 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.

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	8hour TWA	15min. STEL	8hour TWA	15min. STEL
UK	-	-	4mg/m ³	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in Section 7 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

Boiling point/range °C: Decomposes

Melting point/range °C: ~153

Auto flammability °C: ~345

pH: 2.3 (10g/l @ 20°C)

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: Humidity. Moist air. 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 product

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	RBT	LD50	11,700	mg/kg
Oral	MUS	LD50	5,040	mg/kg

Relevant hazards for substance:

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

11.2. 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: May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: 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
Goldfish	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 substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity. Do not allow to enter watercourses or soils. Spillage in sewers or waterways must be avoided. Large doses cause 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

13.1. Waste treatment methods

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

Recovery operations: No information available at this time.

Disposal of packaging: Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licenced contractor.

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: 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**16.1. Other information**

Phrases used in Section 2 and 3: H319: Causes serious eye irritation.
R36/38: Irritating to eyes and skin.

Other information: There are no exposure levels set for the specific product thus the following levels should be adhered to.
Total Inhalable Dust (8hr TWA): 10mg/m³
Respirable Dust (8hr TWA): 4mg/m³

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

Legal disclaimer: This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product.

Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all appropriate local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing.

Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary.

All health and safety information contained in this document should be provided to your employees or customers.