

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

**1.1. Product identifier**

**Product name:** SURFAC CITRIC ACID MONO BP  
**REACH registered number(s):** 05-2114094521-51  
**CAS number:** 5949-29-1  
**EINECS number:** 201-069-1  
**Index number:** 0169  
**Product code:** CITRICMONO  
**Synonyms:** \* 2-HYDROXY-1,2,3-PROPANETRICARBOXYLIC ACID MONOHYDRATE

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

**Use of substance / mixture:** \* PC19: Intermediate. PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids. PC9a: Coatings and paints, thinners, paint removers. PC30: Photo-chemicals. PC21: Laboratory chemicals. PC37: Water treatment chemicals.

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Chemisphere UK Ltd  
Waterside  
Village  
Teddington  
Ōil  
Teddington  
United Kingdom  
**Tel:** + 44 (0)181 606 1111  
**Fax:** + 44 (0)181 606 1111  
**Email:** [info@chemisphere.co.uk](mailto:info@chemisphere.co.uk)

**1.4. Emergency telephone number**

**Emergency tel:** -

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CHIP:** Xi: R36  
**Classification under CLP:** Eye Irrit. 2: H319  
**Most important adverse effects:** Irritating to eyes.

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### 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:** \* 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.

P337+313: If eye irritation persists: Get medical advice/attention.

#### Label elements under CHIP:

**Hazard symbols:** Irritant.



**Risk phrases:** \* R36: Irritating to eyes.

**Safety phrases:** \* S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### 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 MONOHYDRATE

**CAS number:** 5949-29-1

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

**REACH registered number(s):** 05-2114094521-51

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** \* Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Consult a doctor.

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

**Ingestion:** \* Do not induce vomiting. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

[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.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** Nausea and stomach pain may occur. There may be vomiting.

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

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** \* Water spray. Alcohol resistant foam. Carbon dioxide.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** In combustion emits toxic fumes.

**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:** Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** \* Transfer to a suitable container. Wash the spillage site with large amounts of water. Neutralise with dilute sodium hydroxide solution.

**6.4. Reference to other sections**

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

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

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

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**7.3. Specific end use(s)**

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Workplace exposure limits:** No data available.

**DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** \* Protective gloves. PVC gloves.

**Eye protection:** Safety goggles.

**Skin protection:** Protective clothing with elasticated cuffs and closed neck. Boots made of PVC.

**Section 9: Physical and chemical properties**

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

**State:** Crystals

**Colour:** White

**Odour:** Odourless

**Solubility in water:** Soluble

**Melting point/range°C:** ~153

**Flash point°C:** >93

**Part.coeff. n-octanol/water:** -0.2 to 1.8

**Autoflammability°C:** ~350

**Relative density:** 1.665

**pH:** 1.7 (100g/l)

**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**

**10.4. Conditions to avoid**

**Conditions to avoid:** \* Heat.

**10.5. Incompatible materials**

**Materials to avoid:** \* Alkalis. Copper. Zinc. Aluminium. Acids. Strong oxidising agents.

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**10.6. Hazardous decomposition products**

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

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**\* Toxicity values:**

Route	Species	Test	Value	Units
ORL	RAT	LD50	300	mg/kg
DERMAL	RBT	LD50	404	mg/kg
ORAL	MUS	LD50	5400	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 irritation and redness at the site of contact. An itchy rash may occur at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** Nausea and stomach pain may occur. There may be vomiting.

**Section 12: Ecological information**

**12.1. Toxicity**

**\* Ecotoxicity values:**

Species	Test	Value	Units
Daphnia magna	72H ErC50	120	mg/l
GREEN ALGA (Selenastrum capricornutum)	-	640	mg/l

**12.2. Persistence and degradability**

**Persistence and degradability:** \* Readily biodegradable.

**12.3. Bioaccumulative 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.

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**12.6. Other adverse effects**

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Must be disposed of in accordance with local and national regulations.

**Waste code number:** 070199

**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.

**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**

**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**

**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.

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

R36: Irritating to eyes.

**Legend to abbreviations:** PNEC = predicted no effect level

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

[cont...]

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HAM = hamster  
HMN = human  
MAM = mammal  
PGN = pigeon  
IVN = intravenous  
SCU = subcutaneous  
SKN = skin  
DRM = dermal  
OCC = ocular/corneal  
PCP = physico-chemical properties

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