

SAFETY DATA SHEET CITRIC ACID ANHYDROUS

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	CITRIC ACID ANHYDROUS	
Synonyms; trade names	2-HYDROXY 1,2,3 PROPANE TRICARBOXYLIC ACID, CITRIC ACID ANHYDROUS BP2003/E330/USP27, CITRIC ACID ANH FG 30-100 M, CITRIC ACID ANHYDROUS F6000, CITRIC ACID ANHYDROUS N1560, CITRIC ACID 0AQ FCC ed7, CITRIC ACID WV, CITRIC ACID 0AQ, CITRIC ACID WV GRAN, CITRIC ACID ANH E330 12-40M LT, CITRIC ACID ANH E330 16-40M YX, CITRIC ACID ANH E330 MG 1200 CB, CITRIC ACID ANH JBN, CITRIC ACID ANHYDROUS F4020, CITRIC ACID ANH E330 12-40M LT, CITRIC ACID ANHYDROUS FINE GRANULAR 51N, CITRIC ACID ANH E330 12-40M LT, CITRIC ACID ANH LTY JBN, CITRIC ACID ANH JGY JBN, CITRIC ACID ANH WEY JBN, CITRIC ACID ANH P250 PH, CITRIC ACID ANHDROUS F0000, CITRIC ACID ANHDROUS F6040, CITRIC ACID ANHDROUS F7040, CITRIC ACID ANHDROUS G3015, CITRIC ACID ANHDROUS F3500, CITRIC ACID ANHDROUS F2500, CITRIC ACID ANH N1560 FG/PH	
REACH registration number	01-2119457026-42-XXXX	
CAS number	77-92-9	
EC number	201-069-1	
1.2. Relevant identified uses of	of the substance or mixture and uses advised against	
Identified uses	Food industry Cosmetics Industrial application For further information, see attached Exposure Scenario.	
1.3. Details of the supplier of the safety data sheet		
Supplier	Soak Rochford Ltd 3B King Street Industrial Estate, Langtoft, Peterborough, Pe6 9NF sales@soakrochford.co.uk	
	Soak Rochford Ltd 3B King Street Industrial Estate, Langtoft, Peterborough, Pe6 9NF sales@soakrochford.co.uk	
Supplier	Soak Rochford Ltd 3B King Street Industrial Estate, Langtoft, Peterborough, Pe6 9NF sales@soakrochford.co.uk	
Supplier 1.4. Emergency telephone nu	Soak Rochford Ltd 3B King Street Industrial Estate, Langtoft, Peterborough, Pe6 9NF sales@soakrochford.co.uk	
Supplier <u>1.4. Emergency telephone nu</u> Emergency telephone	Soak Rochford Ltd 3B King Street Industrial Estate, Langtoft, Peterborough, Pe6 9NF sales@soakrochford.co.uk mber 999 (24h) 20184	
Supplier 1.4. Emergency telephone nu Emergency telephone Sds No. SECTION 2: Hazards identific 2.1. Classification of the subst	Soak Rochford Ltd 3B King Street Industrial Estate, Langtoft, Peterborough, Pe6 9NF sales@soakrochford.co.uk mber 999 (24h) 20184 sation tance or mixture	
Supplier <i>1.4. Emergency telephone null</i> Emergency telephone Sds No. SECTION 2: Hazards identific	Soak Rochford Ltd 3B King Street Industrial Estate, Langtoft, Peterborough, Pe6 9NF sales@soakrochford.co.uk mber 999 (24h) 20184 sation tance or mixture	

Environmental hazards	Not Classified
2.2. Label elements	
EC number	201-069-1
Hazard pictograms	
Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.
Precautionary statements	P264 Wash contaminated skin thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
2.3. Other hazards	

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Product name	CITRIC ACID ANHYDROUS
REACH registration number	01-2119457026-42-XXXX
CAS number	77-92-9
EC number	201-069-1
Composition comments	The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. Get medical attention if symptoms are severe or persist. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Remove person to fresh air and keep comfortable for breathing. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms are severe or persist. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. Wash clothing and clean shoes thoroughly before reuse.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

Protection of first aiders	No action shall be taken without appropriate training or involving any personal risk.
4.2. Most important symptoms	and effects, both acute and delayed
Inhalation	May cause respiratory irritation.
Ingestion	No specific health hazards known.
Skin contact	No specific health hazards known.
Eye contact	Causes serious eye irritation.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with the following media: Water. Foam.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards	Dust may form explosive mixture with air.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).
5.3. Advice for firefighters	
Special protective equipment	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective
for firefighters	clothing.
for firefighters SECTION 6: Accidental releas	-
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SECTION 6: Accidental release 6.1. Personal precautions, propersonal precautions Personal precautions For non-emergency personnel 6.2. Environmental precautions Environmental precautions	tective equipment and emergency procedures Follow precautions for safe handling described in this safety data sheet Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Provide adequate ventilation. No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material. No smoking, sparks, flames or other sources of ignition near spillage. S Avoid discharge into water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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Usage precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing. Avoid generation and spreading of dust. Provide adequate ventilation. Keep only in the original container. Container must be kept tightly closed when not in use. Avoid inhalation of dust and contact with skin and eyes. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Do not reuse empty containers. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas.
7.2. Conditions for safe storage	ge, including any incompatibilities
Storage precautions	Store in tightly-closed, original container in a dry and cool place. Store at temperatures between 10°C and 30°C. Protect from sunlight. Keep away from food and drink. Keep away from heat, sparks and open flame. Avoid contact with oxidising agents.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure contro	Is/Personal protection
8.1. Control parameters	
Ingredient comments	No exposure limits known for ingredient(s).
PNEC	- Fresh water; 0.44 mg/l - marine water; 0.044 mg/l - Sediment (Freshwater); 7.52 mg/kg - Sediment (Marinewater); 0.752 mg/kg - Soil; 29.2 mg/kg
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours. Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body Wear suitable protective clothing as protection against splashing or contamination. protection

Hygiene measuresWash at the end of each work shift and before eating, smoking and using the toilet. Remove
contaminated clothing and wash the skin thoroughly with soap and water after work. Eye
wash facilities and emergency shower must be available when handling this product.

Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Particulate filter, type P2. EN 136/140/141/145/143/149
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic phys	ical and chemical properties
Appearance	Fine Ganules/coarse powder
Colour	White.
Odour	Odourless.
Odour threshold	No information available.
рН	pH (diluted solution): 1.8 (50 g/l) @ 25°C
Melting point	~153°C
Initial boiling point and range	>175°C
Flash point	345°C Closed cup.
Evaporation rate	Not applicable.
Evaporation factor	No information available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	<0.001 hPa @ 20°C
Vapour density	No information available.
Relative density	1.665 @ 20°C
Bulk density	400 - 1300 kg/m³
Solubility(ies)	576 - 1330 g/l water @ 20°C Soluble in the following materials: Ethanol.
Partition coefficient	log Pow: -1.800.2
Auto-ignition temperature	No information available.
Decomposition Temperature	175°C
Viscosity	6.5 mPa s @ 20°C
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	No information available.
9.2. Other information	
Other information	No information available.
Refractive index	No information available.

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Particle size	No information available.
Molecular weight	192.13
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	No test data specifically related to reactivity available for this product or its ingredients.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
10.4. Conditions to avoid	
Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid generation and spreading of dust.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents. Avoid contact with acids and alkalis.
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
SECTION 11: Toxicological in	formation
11.1. Information on toxicologi	ical effects
Acute toxicity - oral Acute toxicity oral (LD₅₀ mg/kg)	5,400.0
Species	Mouse
Notes (oral LD₅₀)	LD₅₀ 5400 mg/kg, Oral, Mouse LD₅₀ 11700 mg/kg, Oral, Rat
ATE oral (mg/kg)	5,400.0
Acute toxicity - dermal Notes (dermal LD₅₀)	LD₅₀ > 2000 mg/kg
Acute toxicity - inhalation Notes (inhalation LC ₅₀)	No specific test data are available.
Skin corrosion/irritation Skin corrosion/irritation	May be slightly irritating to skin.
Serious eye damage/irritation Serious eye damage/irritation	Causes serious eye irritation. Irritating to eyes.

Respiratory sensitisation	Na ana ifia taat data ayo ayo ilakia
Respiratory sensitisation	No specific test data are available.
Skin sensitisation Skin sensitisation	No specific test data are available.
Germ cell mutagenicity Genotoxicity - in vitro	This substance has no evidence of mutagenic properties. Ames test: Negative.
Genotoxicity - in vivo	Negative
Carcinogenicity Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
STOT - single exposure	No information available.
Specific target organ toxicity -	
STOT - repeated exposure	NOAEL 4000 mg/kg, Oral, Rat 10 days LOAEL 8000 mg/kg, Oral, Rat 10 days
Appiration beyond	
Aspiration hazard Aspiration hazard	No information available.
Inhalation	Dust in high concentrations may irritate the respiratory system.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause temporary irritation.
Eye contact	Causes serious eye irritation.
SECTION 12: Ecological infor	mation
Ecotoxicity	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
12.1. Toxicity	
Acute aquatic toxicity	
Acute toxicity - fish	LC₅₀, 48 hours: 440 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates	EC₅, 24 hours: 1535 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC₅₀, 168 hours: 425 mg/l, Algae
Acute toxicity - microorganisms	EC₅₀, 16 hours: >10000 mg/l,
12.2. Persistence and degrade	ability
Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation 97%: 28 days OCED 301B
Biological oxygen demand	0.526 g O₂/g substance
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Chemical oxygen demand	0.728 g O₂/g substance	
12.3. Bioaccumulative potentia		
Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.	
Partition coefficient	log Pow: -1.800.2	
12.4. Mobility in soil		
Mobility	The product is soluble in water.	
12.5. Results of PBT and vPvI	3 assessment	
Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.	
12.6. Other adverse effects		
Other adverse effects	Not determined.	
SECTION 13: Disposal consid	erations	
13.1. Waste treatment method	ls	
General information	Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.	
SECTION 14: Transport inform	nation	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
14.1. UN number		
No information required.		
14.2. UN proper shipping nam	e	
No information required.	_	
14.3. Transport hazard class(e	es)	
No information required.		
14.4. Packing group		
No information required.		
14.5. Environmental hazards		
Environmentally hazardous substance/marine pollutant No.		
14.6. Special precautions for u	ISER	
No information required.		
14.7. Transport in bulk accord	ing to Annex II of MARPOL and the IBC Code	
Transport in bulk according to No information required. Annex II of MARPOL 73/78 and the IBC Code		
SECTION 15: Regulatory infor	mation	
15.1 Safaty baalth and any in	anmontal regulationallogialation apositio for the substance or mixture	

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS All the ingredients are listed or exempt.

Canada - DSL/NDSL

All the ingredients are listed or exempt. DSL

US - TSCA All the ingredients are listed or exempt.

Australia - AICS All the ingredients are listed or exempt.

Korea - KECI All the ingredients are listed or exempt.

Philippines – PICCS All the ingredients are listed or exempt.

New Zealand - NZIOC All the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. Kow: Octanol-water partition coefficient. LCas: Lethal Concentration to 50 % of a test population. LDas: Lethal Concentration to 50 % of a test population. LDas: Lethal Dose to 50% of a test population. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. VPVB: Very Persistent and Very Bioaccumulative. IARC: International Agrecy for Research on Cancer. MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. cATpE: Converted Acute Toxicity Point Estimate. EGF: Bioconcentration Factor. BOD: Biochemical Oxygen Demand. ECac: S0% of maximal Effective Concentration. LOAEC: Lowest Observed Adverse Effect Concentration. LOAEC: Lowest Observed Adverse Effect Concentration. LOAEC: Lowest Observed Adverse Effect Concentration. LOAEC: No Observed Adverse Effect Level. NOEC: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration. LOAEL: Lowest Observed Adverse Effect Level. NOEC: No Observed Effect Concentration. LOAEL: No Observed Effect Concentration. NOAEL: No Observed Effect Concentration. LOAEC: Lowest Observed Adverse Effect Level. EL50: Exposure Limit 50 hPa: Hectopascal LL50: Lethal Loading fifty OECD: Organisation for Economic Co-operation and Development POW: Octanol-water partition coefficient SCBA: self-contin
Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Key literature references and sources for data	Supplier's information.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	18/01/2021
Version number	3.004
Supersedes date	14/05/2020
SDS number	20184

SDS status

Approved.

Hazard statements in full H319 Causes serious eye irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.