

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 SDS Ref.: Periodic review of SDS 2/18/2022 Date of issue: 2/18/2014 Revision date: 2/18/2019 Supersedes: 12/9/2016 Version: 1.4

SECTION 1: Identification of the substat	nce/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Trade name	: Citric Acid Powder
IUPAC name	: 2-Hydroxypropane-1,2,3-tricarboxylic acid, monohydrate
EC-No.	: 201-069-1
CAS-No.	: 5949-29-1
REACH registration No	: 01-2119457026-42-XXXX
Type of product	: Organic acids
Formula	: HOOCCH ₂ C(OH)(COOH)CH ₂ COOH.H ₂ O
Synonyms	: Citric acid, monohydrate
Product group	: Raw material
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1.2. Relevant identified uses of the substance	e or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: pH adjuster, Use as Cleaning Agent, Descaler
1.2.2. Uses advised against No additional information available	
1.3. Details of the supplier of the safety data	shoot
Wessex Chemical Factors Ltd	311001
9 Crane Way, Woolsbridge Industrial Park,	
Three Legged Cross, Wimborne, Dorset	
BH21 6FA - United Kingdom T +44 (0) 1202 823 699 - F +44 (0) 1202 813 863	
www.wessexchemicalfactors.co.uk	
E-mail address of competent person responsible for t	he SDS : info@wessexchemicalfactors.co.uk
1.4. Emergency telephone number	
Emergency number : +	44 (0) 1202 823 699 (Office hours only 9am - 5pm Monday - Thursday, 9am - 4pm Friday.)
+	44 (0) 7973629367 (Out of hours emergency number)
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	
Classification according to Regulation (EC) No. 12	
Serious eye damage/eye irritation, Category 2	H319
Full text of H statements : see section 16	
Adverse physicochemical, human health and env	ironmental effects
Causes serious eye irritation.	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2	2008 [CLP]
Hazard pictograms (CLP)	
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	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P264 - Wash hands thoroughly after handling.
- , , ,	P280 - Wear eye protection, protective gloves.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.
2.3. Other hazards	
2.3. Other findzarus	

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on i 3.1. Substances	ngredients		
Substance type :	Mono-constituent		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
citric acid	(CAS-No.) 5949-29-1 (EC-No.) 201-069-1 (REACH-no) 01-2119457026-42- XXXX	100	Eye Irrit. 2, H319

Full text of H-statements: see section 16

3.2. Mixtures Not applicable

SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing. Allow the victim to rest. First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. First-aid measures after eve contact : Rinse thoroughly and plentifully with water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Consult an eye specialist. First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately give plenty of water. Call a poison center or a doctor if you feel unwell. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects after inhalation : Dust from this product may cause respiratory irritation. Cough. Symptoms/effects after skin contact : Skin Corr./Irrit. Not classified. Contact during a long period may cause light irritation. Symptoms/effects after eye contact : Burning sensation. Eye irritation. Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea. 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Carbon dioxide. Sand. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	nce or mixture
Fire hazard	: The product is not easily ignited.
Explosion hazard	: Dust may form explosive mixture in air.
Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release mea	isures	
6.1. Personal precautions, protective ec	puipment and emergency procedures	
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crewith proper protection. For further information refer to section 8: "Exposure controls/personal protection".	€W
Emergency procedures	: Ventilate area.	
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6.2. Environmental precautions			
Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.			
6.3. Methods and material for containme	nt and cleaning up		
For containment	: Avoid dust formation.		
Methods for cleaning up	: Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			
See Heading 8. Exposure controls and personal	protection. For further information refer to section 13.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment.		

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Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including an	y incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids. oxidizing materials. reducing materials.
Incompatible materials	: Strong oxidizers. Sources of ignition. Direct sunlight.
Maximum storage period	: 18 months
Storage temperature	: 15 - 25 °C
Information on mixed storage	: Do not store near oxidizing agents. alkaline products.
Storage area	: Store in a dry place.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/perso 8.1. Control parameters	onal protection	
Citric Acid Powder (5949-29-1)		
PNEC (Water)		
PNEC aqua (freshwater)	0.44 mg/l	
PNEC aqua (marine water)	0.044 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	3.46 mg/kg dwt	
PNEC sediment (marine water)	34.6 mg/kg dwt	
PNEC (Soil)		
PNEC soil	33.1 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	> 1000 mg/l	
8.2. Exposure controls		

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure. Safety glasses. Gloves. Dust/aerosol mask with filter type P2.

Wear protective glove	es.				
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	0.11 mm		EN ISO 374
Eye protection:	'				I
Chemical goggles or	safety glasses				

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Туре	Use	Characteristics	Standard
Safety glasses		With side shields	EN 166
Skin and body protection:			
Wear suitable protective clothing. Boots			
Respiratory protection:			
Wear appropriate mask. EN 143. Dust production: dust mask with filter type P2			

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Solid Appearance : Crystalline powder. Molecular mass : 210.138 g/mol (monohydrate) Colour : white. Odour : odourless. : No data available Odour threshold pН : No data available pH solution : 1.8 (50 g/l ; 25 °C) Relative evaporation rate (butylacetate=1) : No data available Melting point : 135 - 152 °C Freezing point : Not applicable : Decomposes before boiling Boiling point Flash point : Not applicable : Not applicable Auto-ignition temperature Decomposition temperature : 175 °C Flammability (solid, gas) : Non flammable. : 0.00000221 Pa Vapour pressure Relative vapour density at 20 °C : No data available Relative density : Not applicable Density : 1.54 g/cm³ (monohydrate) Solubility : soluble in water. Water: 1840 g/l Log Pow : No data available : -1.8 - -0.2 Log Kow Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : Product is not explosive. Oxidising properties : Non oxidizing material according to EC criteria. Explosive limits : Not applicable 9.2. Other information : 550 - 950 kg/m³ Bulk density

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under recommended handling and storage conditions (see section 7).
10.2. Chemical stability
Stable under normal conditions.

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10.3. Possibility of hazardous reactions

Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

10.4. Conditions to avoid Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Sodium nitrite. potassium nitrite. Reducing agents. Oxidizing agent.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Citric Acid Powder (5949-29-1)	
LD50 oral rat	11700 mg/kg
LD50 oral	5400 mg/kg (mouse)
LD50 dermal rat	> 2000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Extremely irritating to rabbits on ocular application
Respiratory or skin sensitisation	: This product does not cause skin sensitization
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general :	Before neutralisation the acidity of the product may represent a danger to aquatic organisms.
Acute aquatic toxicity :	Not classified
Chronic aquatic toxicity :	Not classified
Citric Acid Powder (5949-29-1)	
LC50 fish 1	> 100 mg/l Fathead minnow, (P. promelas)
EC50 other aquatic organisms 1	> 50 mg/l (Zebra mussel D. polymorpha)
NOEC chronic algae	425 mg/l (Algae S. quadricauda)
12.2. Persistence and degradability	
Citric Acid Powder (5949-29-1)	
Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	
Citric Acid Powder (5949-29-1)	
Log Kow	-1.80.2
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).

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12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
Citric Acid Powder (5949-29-1)
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information	SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / ADN			
14.1. UN number	· Not applicable		
UN-No. (ADR)	: Not applicable		
UN-No. (IMDG)	: Not applicable		
UN-No. (IATA)	: Not applicable		
UN-No. (ADN)	: Not applicable		
UN-No. (RID)	: Not applicable		
14.2. UN proper shipping name Proper Shipping Name (ADR)	: Not applicable		
Proper Shipping Name (IMDG)	: Not applicable		
Proper Shipping Name (IATA)	: Not applicable		
Proper Shipping Name (ADN)	: Not applicable		
Proper Shipping Name (RID)	: Not applicable		
14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: Not applicable		
IMDG			
Transport hazard class(es) (IMDG)	· Not applicable		
	: Not applicable		
Transport hazard class(es) (IATA)	: Not applicable		
ADN			
Transport hazard class(es) (ADN)	: Not applicable		
RID			
Transport hazard class(es) (RID)	: Not applicable		
14.4. Packing group			
Packing group (ADR)	: Not applicable		
Packing group (IMDG)	: Not applicable		
Packing group (IATA)	: Not applicable		
Packing group (ADN)	: Not applicable		
Packing group (RID)	: Not applicable		
14.5. Environmental hazards Dangerous for the environment	: No		
Marine pollutant	: No		
Other information	: No supplementary information available		
14.6. Special precautions for user			
Overland transport			
No data available			
Transport by sea			
No data available			
Air transport			
No data available			

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Inland waterway transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Citric Acid Powder is not on the REACH Candidate List

Citric Acid Powder is not on the REACH Annex XIV List

citric acid is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

citric acid is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information		
Abbreviations and acrony	ms:	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
EC50	Median effective concentration	
LC50	Median lethal concentration	
LD50	Median lethal dose	
NOEC	No-Observed Effect Concentration	
PNEC	Predicted No-Effect Concentration	
PBT	Persistent Bioaccumulative Toxic	
SDS	Safety Data Sheet	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
vPvB	Very Persistent and Very Bioaccumulative	
STP	Sewage treatment plant	
Data sources	: 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Other information	: None.	
Full text of H- and EUH-statements:		

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product