Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 11/05/2016 Revision date: 26/01/2023 Supersedes version of: 05/04/2018 Version: 2.2

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

1.1. Product identifier

Product form	: Substance
Trade name	: Citric acid monohydrate AGR
Chemical name	:
EC-No.	: 201-069-1
CAS-No.	: 5949-29-1
REACH registration No	: 01-2119457026-42
Product code	: CITA-01A
Formula	: C6H8O7 • H2O

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

1.2.1. Relevant identified uses

Main use category

: Laboratory use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

labbox labware s.l. Migjorn, 1 P.O. Box Barcelona (SPAIN) 08338 Premia de Dalt - SPAIN ES T +34 937 07 79 70 - F +34 937 909 532 info@labbox.com - www.labbox.com

1.4. Emergency telephone number

Emergency number

: +34 937 077 970 (For technical information_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Category 3, Respiratory	H335
tract irritation	
Full text of H and EUH statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS07 Signal word (CLP) : Warning Hazard statements (CLP) : H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Citric acid monohydrate	CAS-No.: 5949-29-1 EC-No.: 201-069-1 REACH-no: 01-2119457026- 42	99

3.2. Mixtures

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general First-aid measures after inhalation	 Get medical advice/attention if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice. 	
First-aid measures after skin contact	: After contact with skin, wash immmediatly with plenty of propylene glycol 400 (Roticlean). Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.	
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after inhalation Symptoms/effects after eye contact	May cause respiratory irritation.Causes serious eye irritation.	
4.3. Indication of any immediate medical attention and special treatment needed		

Never give anything by mouth to an unconscious person.

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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Making extinguishing agents environment-friendly.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: Non combustible.	
5.3. Advice for firefighters		
Precautionary measures fire Firefighting instructions Protection during firefighting	 Fight fire remotely due to the risk of explosion. Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection. 	

SECTION 6: Accidental release measur	es		
6.1. Personal precautions, protective equip	6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Avoid dust formation.		
6.1.1. For non-emergency personnel No additional information available			
6.1.2. For emergency responders No additional information available			
6.2. Environmental precautions			
Prevent entry to sewers and public waters.			
6.3. Methods and material for containment and cleaning up			
For containment Methods for cleaning up	Collect spillage.Mechanically recover the product. Shovel or sweep up and put in a closed container for disposal.		
6.4. Reference to other sections			

See Heading 8. 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. Avoid contact with eyes. Avoid dust formation. Do not breathe dust.	
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2. Conditions for safe storage, including	any incompatibilities	
Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.	
Incompatible products	: Strong bases. Oxidizing agent.	
Storage temperature	: ≤ 30 °C	
7.3. Specific end use(s)		

Laboratory chemicals.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. EN 374. Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection:

Protective gloves against chemicals (EN 374)

8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Respiratory protection			
Device	Filter type	Condition	Standard
Reusable half mask	Туре Р2		EN 143

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: white.	
Molecular mass	: 210,14 g/mol	
Odour	: odourless.	
Odour threshold	: Not available	
Melting point	: 135 – 153 °C	
Freezing point	: Not available	
Boiling point	: 175 °C	
Flammability	: Not available	
Explosive limits	: Not applicable	
Lower explosion limit	: Not applicable	
Upper explosion limit	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: Not available	
рН	: 1,85 (5% 25° C)	
pH solution	: Not available	
Viscosity, kinematic	: Not applicable	
Solubility	: Water: 1630 g/100cm ³ 20 ^o C	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Partition coefficient n-octanol/water (Log Pow)	: -1,72	
Vapour pressure	: Not available	
Vapour pressure at 50 °C	: Not available	
Density	: 1,54 g/cm³ 20º C	
Relative density	: Not available	
Relative vapour density at 20 °C	: Not applicable	
Particle size	: Not available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

10.4. Conditions to avoid

Overheating.

10.5. Incompatible materials

Oxidizing agent. Metals. Strong reducing agents.

10.6. Hazardous decomposition products

Carbon dioxide.

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SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified 	
Citric acid monohydrate AGR (5949-2	9-1)	
LD50 oral rat	5400 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LD50 dermal	0 mg/kg	
Skin corrosion/irritation	: Not classified pH: 1,85 (5% 25° C)	
Serious eye damage/irritation	: Causes serious eye irritation. pH: 1,85 (5% 25º C)	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: May cause respiratory irritation.	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information	
12.1. Toxicity	
(acute)	Not classified
Citric acid monohydrate AGR (5949-29-1)	
LC50 - Fish [1]	440 mg/l Leuciscus idus 48H
12.2. Persistence and degradability	
Citric acid monohydrate AGR (5949-29-1)	
Biodegradation	97 %
12.3. Bioaccumulative potential	
Citric acid monohydrate AGR (5949-29-1)	
Partition coefficient n-octanol/water (Log Pow)	-1,72
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	

No additional information available

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12.6. Endocrine disrupting properties
No additional information available
12.7. Other adverse effects
No additional information available
SECTION 13: Disposal considerations
13.1. Waste treatment methods

Waste treatment methods

: Must follow special treatment according to local regulation.

SECTION 14: Transport information In accordance with ADR / IADR / I				
14.1. UN number or ID number UN-No. (ADR) : Not applicable UN-No. (IMDG) : Not applicable UN-No. (IATA) : Not applicable UN-No. (ADR) : Not applicable UN-No. (ADN) : Not applicable Proper Shipping Name (ADN) : Not applicable Proper Shipping Name (IATA) : Not applicable Transport hazard class(es) (ADR) : Not applicable IMDG : : Not applicable Transport hazard class(es) (IMDG) : Not applicable ITansport hazard class(es) (IATA) : Not applicable ITansport hazard class(es) (RID) : Not applicable ITansport hazard class(es) (RID) : Not applicable	SECTION 14: Transport informatio	n		
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Other information : No supplementary information available				
	Other information	: No supplementary information available		

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14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea Not applicable

Air transport Not applicable

Inland waterway transport Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Citric acid monohydrate AGR is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

Citric acid monohydrate AGR is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Citric acid monohydrate AGR 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.

POP Regulation (Persistent Organic Pollutants)

Citric acid monohydrate AGR is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Citric acid monohydrate is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

Germany

Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 3; ID No.
	8248).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

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Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information		
Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	

Safety Data Sheet (SDS), EU

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.