

# Safety data sheet

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according to 1907/2006/EC, Article 31

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## SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier Trade name: Citric acid monohydrate · Article number: 1018 · CAS Number: 5949-29-1 · EC number: 201-069-1 · Application of the substance / the mixture Laboratory chemicals 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: PANREAC QUIMICA S.L.U. Tel. (+34) 937 489 400 C/Garraf 2 Fax. (+34) 937 489 401 Polígono Pla de la Bruguera e-mail: product.safety@panreac.com E-08211 Castellar del Vallès (Barcelona) · Further information obtainable from: email: product.safety@panreac.com · 1.4 Emergency telephone number: Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Eye Irrit. 2 H319 Causes serious eye irritation. · 2.2 Label elements

• Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. • Hazard pictograms



- · Signal word Warning
- Hazard statements
- H319 Causes serious eye irritation.
- Precautionary statementsP264Wash thoroughly after handling.

(Contd. on page 2)

P280 Wear 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. P337+P313 If eye irritation persists: Get medical advice/attention.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

- · 3.1 Substances
- · CAS No. Description
- 5949-29-1 Citric acid monohydrate
- · Identification number(s)
- EC number: 201-069-1

## **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
   General information: Personal protection for the First Aider. Take affected persons out into the fresh air. Involve doctor immediately.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water. Immediately remove any clothing soiled by the product. If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing:

make victim drink water (maximum of 2 drinking glasses) Do not induce vomiting; call for medical help immediately. If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Carbon dioxide

Foam

Use fire extinguishing methods suitable to surrounding conditions.

- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Carbon monoxide and carbon dioxide Non-combustible.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

(Contd. on page 3)

(Contd. of page 1)

(Contd. of page 2)

### **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Wear protective equipment. Keep unprotected persons away. Avoid substance contact. Ensure adequate ventilation

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Pick up mechanically.

Avoid formation of dust. Clean up affected area.

• **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

• **7.1 Precautions for safe handling** Any unavoidable deposit of dust must be regularly removed. • **Information about fire - and explosion protection:** The product is not flammable.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Provide acid-resistant floor.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

- · Recommended storage temperature: Room Temperature
- · Storage class: 13
- 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · PNECs

Aquatic compartment - freshwater	0.44 mg/L					
Aquatic compartment - marine water	0.044 mg/L					
Aquatic compartment - sediment in freshwater	3.46 mg/kg					
Aquatic compartment - sediment in marine water	34.6 mg/kg					
Terrestrial compartment - soil	33.1 mg/kg					
Sewage treatment plant	>1,000 mg/L					
• Additional information: The lists valid during the making were used as basis.						

#### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### · Respiratory protection:

Required when dusts are generated.

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Filter P2
· Hand protection
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
• For the permanent contact gloves made of the following materials are suitable:
Nitrile rubber, NBR
Recommended thickness of the material: $\geq 0.11$ mm
Value for the permeation: Level $\geq$ 480 min
• As protection from splashes gloves made of the following materials are suitable:
Nitrile rubber, NBR
Recommended thickness of the material: $\geq 0.11$ mm
Value for the permeation: Level $\geq$ 480 min
· Eye/face protection
Tightly sealed goggles
Body protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

9.1 Information on basic physical and chemical properties					
General Information					
Physical state	Solid				
Colour:	White				
Odour:	Odourless				
Odour threshold:	Not determined.				
Melting point/freezing point:	135-152 °C				
Boiling point or initial boiling poin	it and boiling				
range	Undetermined.				
Flammability	Product is not flammable.				
Lower and upper explosion limit					
Lower:	Not determined.				
Upper:	Not determined.				
Flash point:	Not applicable.				
Auto-ignition temperature:	Not determined.				
Decomposition temperature:	>170 °C				
pH	1.8				
Viscosity:					
Kinematic viscosity	Not applicable.				
Dynamic:	Not applicable.				
Solubility					
water at 25 °C:	676 g/l				
Partition coefficient n-octanol/wat	er (log value) -1.79997				
Vapour pressure:	Not applicable.				
Density and/or relative density					
Density at 20 °C:	1.54 g/cm <sup>3</sup>				

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Trade name: Citric acid monohydrate

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Relative density	Not determined.
Bulk density:	550-950 kg/m³
Vapour density	Not applicable.
9.2 Other information	
Appearance:	
Form:	Solid
Important information on protection of he and environment, and on safety.	alth
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.
<ul> <li>Information with regard to physical haz classes</li> </ul>	
· Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
<ul> <li>Desensitised explosives</li> </ul>	Void

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Heating.
- 10.3 Possibility of hazardous reactions
- Exothermic reactions with: oxidizing agent reducing agents metals Bases
- **10.4 Conditions to avoid** Thermal decomposition: >170°C
- · 10.5 Incompatible materials:

oxidizing agent Bases

reducing agents

- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5
- Additional information: releases water of crystallization when heated.

## **SECTION 11: Toxicological information**

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

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					ilable data.	the classification criteria are not met.	
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		on: No in r skin se			ed on avail	able data, the classification criteria are no	ot met
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		4 N.a. f.					
-	c toxic	-			ormation a		
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- Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

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(Contd. of page 6)

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Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information	on		
<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void		
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void		
· 14.3 Transport hazard class(es)			
· ADR, ADN, IMDG, IATA · Class	Void		
· 14.4 Packing group · ADR, IMDG, IATA	Void		
· 14.5 Environmental hazards:	Not applicable.		
· 14.6 Special precautions for user	Not applicable.		
14.7 Maritime transport in bulk according to IMO instruments Not applicable.			
· Transport/Additional information:	Not dangerous according to the above specifications.		
· UN "Model Regulation":	Void		

## **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed. • 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

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• \* Data compared to the previous version altered.

#### Annex: Exposure scenario

- · Short title of the exposure scenario Use in laboratories
- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Solid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting worker exposure Avoid contact with eyes.
- · Other operational conditions affecting consumer exposure No special measures required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures
- Ensure that suitable extractors are available on processing machines
- Personal protective measures Do not inhale dust / smoke / mist. Avoid contact with the eyes. Tightly sealed goggles
- · Measures for consumer protection Ensure adequate labelling.
- Environmental protection measures
- · Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system. **Waste type** Partially emptied and uncleaned packaging

- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.

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