## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 11/12/2016 Version: 0.0

Doc No: SDS-910.046/1



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

#### 1.1. Product identifier

Product form : Substance

Substance name : Citric acid, monohydrate

EC no : 201-069-1 CAS No : 5949-29-1

Type of product : Pure substance, Hygroscopic substance. Preventive measures apply to the substance in dry

state only

Formula : C6H8O7\*H2O

Chemical structure :

Synonyms : 1,2,3-propanetricarboxylic acid, 2-hydroxy-, monohydrate / 2-hydroxy-1,2,3-

propanetricarboxylic acid, monohydrate / 2-hydroxypropane-1,2,3-tricarboxylic acid, monohydrate / beta-hydroxytricarballylic acid, monohydrate / beta-hydroxytricarballylic acid, monohydrate / soerensen's buffer substance

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Cleansing product

#### 1.2.2. Uses advised against

No additional information available

prodsafe@isolab.de

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

ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 (0) 30 19240	

### **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

Full text of hazard classes and H-statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation

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Precautionary statements (CLP)

P280 - Wear protective gloves, eye protection, face protection, protective clothing 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	99 - 100

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

The Cartal			
First-aid	measures	deneral	

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

: Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an

First-aid measures after eye contact

ophthalmologist if irritation persists.

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison

First-aid measures after ingestion

Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

: AFTER INHALATION OF DUST: Dry/sore throat. Coughing. Slight irritation. EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract. Respiratory difficulties.

Symptoms/injuries after skin contact

: Red skin. ON CONTINUOUS EXPOSURE/CONTACT: Tingling/irritation of the skin.

Symptoms/injuries after eye contact

: Irritation of the eye tissue. ON CONTINUOUS EXPOSURE/CONTACT: Inflammation/damage

Symptoms/injuries after ingestion

of the eye tissue.

: AFTER ABSORPTION OF HIGH QUANTITIES: Abdominal pain. Vomiting. Coughing. Irritation

Chronic symptoms

of the gastric/intestinal mucosa.

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Affection/discolouration of the teeth.

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

No additional information available

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media

: Water spray. Polyvalent foam. AFFF foam. ABC powder. Carbon dioxide.

Unsuitable extinguishing media : Container may slop over if solid jet (water/foam) is applied.

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

Fire hazard

: DIRECT FIRE HAZARD. Not easily combustible. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD. Heating increases the fire hazard. Reactions involving a fire hazard: see "Reactivity Hazard"

Explosion hazard

: DIRECT EXPLOSION HAZARD. Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD. Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".

### 5.3. Advice for firefighters

Precautionary measures fire

: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

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Firefighting instructions

Protection during firefighting

: Cool tanks/drums with water spray/remove them into safety.

: Heat/fire exposure: compressed air/oxygen apparatus.



#### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel 6.1.1.

Protective equipment

: Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen

apparatus. See "Material-Handling" to select protective clothing

**Emergency procedures** 

Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash

contaminated clothes.

Measures in case of dust release

In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. Dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.

#### 6.1.2. For emergency responders

No additional information available

#### **Environmental precautions** 6.2.

No additional information available

#### Methods and material for containment and cleaning up

For containment

: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Powdered form: no compressed air for pumping over spills.

Methods for cleaning up

Prevent dust cloud formation. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling

#### 6.4 Reference to other sections

No additional information available

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

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no compressed air for pumping over. Avoid raising dust. Use earthed equipment. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### Conditions for safe storage, including any incompatibilities

Heat and ignition sources

: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Information on mixed storage

: KEEP SUBSTANCE AWAY FROM: reducing agents. (strong) bases. oxidizing agents.

Storage area

Store in a dry area. Keep container in a well-ventilated place. Provide the tank with earthing. Keep only in the original container. Store at ambient temperature. Meet the legal requirements.

Special rules on packaging

SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal

requirements. Secure fragile packagings in solid containers.

Packaging materials

SUITABLE MATERIAL: polyethylene. polypropylene. MATERIAL TO AVOID: aluminium. copper. zinc.

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

No additional information available

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

### **Control parameters**

No additional information available

#### 8.2. **Exposure controls**

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#### Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: butyl rubber. natural rubber. neoprene. nitrile rubber. PVC. viton. GIVE GOOD RESISTANCE: polyethylene. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: PVA

### Hand protection:

Gloves

### Eye protection:

Safety glasses. In case of dust production: protective goggles

### Skin and body protection:

Protective clothing

### Respiratory protection:

Dust production: dust mask with filter type P1

### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Powder.

Molecular mass : 210.14 g/mol
Colour : Colourless or white.

Odour : Odourless.

Odour threshold : No data available pH : 1.85 (5 %, 25 °C)

pH solution : 5 %

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 135 - 152 °C

Freezing point : Not applicable

Boiling point : decomposition

Flash point : Not applicable

Auto-ignition temperature : 345 °C

Decomposition temperature : No data available Flammability (solid, gas) : No data available

Vapour pressure : < 0.1 hPa (20 °C)
Relative vapour density at 20 °C : No data available

Relative density : 1.5

Density : 1.54 g/cm<sup>3</sup> (20 °C)

Solubility : Soluble in water. Soluble in ethanol. Soluble in methanol. Soluble in 1-propanol. Soluble in

ethylacetate. Soluble in pentanol. Soluble in pentylacetate.

Water: 88 g/100ml Ethanol: 50 g/100ml

Log Pow : -1.72 (Experimental value)

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

### 9.2. Other information

VOC content : 0 %

Other properties : Hygroscopic. Substance has acid reaction.

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

## 10.1. Reactivity

Upon combustion: CO and CO2 are formed. Reacts violently with (some) bases: (increased) risk of fire. Reacts violently with (strong) oxidizers: (increased) risk of fire. Reacts with (strong) reducers.

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#### 10.2. Chemical stability

Hygroscopic.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Citric acid, monohydrate (5949-29-1)		
LD50 oral rat	3000 mg/kg (Rat; Literature study)	
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	

Skin corrosion/irritation : Not classified pH: 2 (1 %)

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Serious eye damage/irritation : Causes serious eye irritation.

pH: 2 (1 %)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : Classification concerning the environment: not applicable.

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included

in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse

5.2.1.

Ecology - water : Slightly harmful to fishes (LC50(96h) 100-1000 mg/l). Slightly harmful to invertebrates (EC50:

100 - 1000 mg/l). Slightly harmful to algae. Not harmful to bacteria. pH shift. Nitrification of

activated sludge isn't inhibited.

Citric acid, monohydrate (5949-29-1)		
LC50 fish 2	440-760,LC50; 96 h; Pisces	
EC50 Daphnia 2	120 mg/l (EC50; 72 h; Daphnia magna)	
Threshold limit algae 2	640 mg/l (EC0; 168 h; Scenedesmus quadricauda)	

### 12.2. Persistence and degradability

Citric acid, monohydrate (5949-29-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	0.481 g O²/g substance	
Chemical oxygen demand (COD)	0.665 g O²/g substance	
BOD (% of ThOD)	0.889 (20 days)	

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### 12.3. Bioaccumulative potential

Citric acid, monohydrate (5949-29-1)		
Log Pow	-1.72 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Dissolve or mix with a combustible solvent. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Treat using the best available techniques before discharge into drains or the

aquatic environment.

Additional information : LWCA (the Netherlands): KGA category 03. Hazardous waste according to Directive

2008/98/EC.

European List of Waste (LoW) code : 16 05 08\* - discarded organic chemicals consisting of or containing dangerous substances

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID	
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipp	ng name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard	14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available					

### 14.6. Special precautions for user

## - Overland transport

Not applicable

### - Transport by sea

Not applicable

### - Air transport

Not applicable

### - Inland waterway transport

Not applicable

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### - Rail transport

Not applicable

#### Transport in bulk according to Annex II of Marpol and the IBC Code 14.7.

Not applicable

### SECTION 15: Regulatory information

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

#### 15.1.1. **EU-Regulations**

No REACH Annex XVII restrictions

Citric acid, monohydrate is not on the REACH Candidate List Citric acid, monohydrate is not on the REACH Annex XIV List

VOC content : 0%

#### 15.1.2. **National regulations**

#### Germany

: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex VwVwS Annex reference

WGK remark Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender

Stoffe (VwVwS) of 27 July 2005 (Anhang 2)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### **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 : The substance is not listed

giftige stoffen - Borstvoeding NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

: The substance is not listed

#### 15.2. Chemical safety assessment

No additional information available

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

### Abbreviations and acronyms:

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  ADR European Agreement concerning the International Carriage of Dangerous Goods by Road  ATE Acute Toxicity Estimate  BCF Bioconcentration factor  CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  EC50 Median effective concentration  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  PBT Persistent Bioaccumulative Toxic  REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  VPVB Very Persistent and Very Bioaccumulative	The state of the s		
ATE Acute Toxicity Estimate  BCF Bioconcentration factor  CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  EC50 Median effective concentration  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  PBT Persistent Bioaccumulative Toxic  REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
BCF Bioconcentration factor  CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  EC50 Median effective concentration  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  PBT Persistent Bioaccumulative Toxic  REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  EC50 Median effective concentration  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  PBT Persistent Bioaccumulative Toxic  REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet	ATE	Acute Toxicity Estimate	
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REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet	LD50	Median lethal dose	
RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet	PBT	Persistent Bioaccumulative Toxic	
SDS Safety Data Sheet	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
vPvB Very Persistent and Very Bioaccumulative	SDS	Safety Data Sheet	
	vPvB	Very Persistent and Very Bioaccumulative	

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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.

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation

#### SDS ISOLAB

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

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