# Honeywell Fluka

# Citric acid monohydrate

## 33114H-6X1KG

Version 2.0

## Revision Date 15.04.2022

Supersedes 1

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

1.1. Product identifier			
Product name	:	Citric acid monohydrate	
SDS-number	:	00000020897	
Type of product	:	Substance	
Remarks	:	SDS according to Art. 31 of Re	gulation (EC) 1907/2006.
Chemical name	:	Citric acid monohydrate	
Index-No.	:	607-750-00-3	
REACH Registration Number	:	no data available	
1.2. Relevant identified us	ses	of the substance or mixture an	d uses advised against
Use of the Substance/Mixture	:	Laboratory chemicals	
Uses advised against	:	none	
1.3. Details of the supplie	r of	the safety data sheet	
Company	:	Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
Telephone For further information, please contact:	:	SafetyDataSheet@Honeywell.	com
1.4. Emergency telephone	e nu	mber	
Emergency telephone number Country based Poison	:	+1-703-527-3887 (ChemTrec-7 +1-303-389-1414 (Medical) see chapter 15.1	Fransport)
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**Control Center** 

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

Eye irritation Category 2 H319 Causes serious eye irritation. Specific target organ toxicity - single exposure Category 3 - Respiratory system H335 May cause respiratory irritation.

#### 2.2. Label elements

#### REGULATION (EC) No 1272/2008

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H319 H335	Causes serious eye irritation. May cause respiratory irritation.
Precautionary statements	:	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
		P280	Wear protective gloves/ eye protection/ face 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.
		P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
		P501	Dispose of contents/ container to an approved waste disposal plant.



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#### 2.3. Other hazards

Potential dust explosion hazard.

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

#### 3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Citric acid monohydrate	5949-29-1 607-750-00-3 201-069-1	Eye Irrit. 2; H319 STOT SE 3; H335	100 %	

#### 3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.

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

#### 4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:

Remove to fresh air. Call a physician if irritation develops or persists.

Skin contact:

After contact with skin, wash immediately with plenty of soap and water. Call a physician if irritation develops or persists.

Eye contact:

Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Consult a physician.

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Ingestion:

When swallowed, allow water to be drunk. Call a physician immediately.

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

No data available

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

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) Dry powder

*Extinguishing media which shall not be used for safety reasons:* High volume water jet

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

Fire may cause evolution of: carbon oxides (CO, CO2).

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

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

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Use personal protective equipment. Provide adequate ventilation. Avoid dust formation.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.

#### 6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment. Pick for disposal in tightly closed containers

#### 6.4. Reference to other sections

For personal protection see section 8.

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

#### 7.1. Precautions for safe handling

Advice on safe handling:

Wear personal protective equipment. Avoid dust formation. Avoid contact with eyes.

Advice on protection against fire and explosion: Keep away from heat and sources of ignition.

Hygiene measures:

Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. When using do not eat or drink.

#### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions:

Store in original container. Keep in a dry, cool place. Keep containers tightly closed in a dry, cool and well-ventilated place.

*Advice on common storage:* Do not store together with: alkalies Oxidizing agents

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

no additional data available

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

#### 8.1. Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### **DNEL/ PNEC-Values**

 No DNEL-data available.

 Citric acid monohydrate

 No data available

Component	Environmental compartment / Value	Remarks
Citric acid monohydrate	Fresh water: 0,44 mg/l	Assessment factor: 1000
Citric acid monohydrate	Marine water: 0,044 mg/l	Assessment factor: 10000
Citric acid monohydrate	Sewage treatment plant: 1000 mg/l	Assessment factor: 10
Citric acid monohydrate	Fresh water sediment: 34,6 mg/kg dw	
Citric acid monohydrate	Marine sediment: 3,46 mg/kg dw	
Citric acid monohydrate	Soil: 33,1 mg/kg dw	

#### 8.2. Exposure controls

#### Occupational exposure controls

Do not breathe dust.

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511;

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safety shoes EN-ISO 20345.

#### Personal protective equipment

*Respiratory protection:* In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection: Glove material: Natural Latex Break through time: > 480 min Glove thickness: 0,6 mm Lapren®706 Gloves must be inspected prior to use. Replace when worn. Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy. Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374. Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time. Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de Eye protection: Safety goggles

*Skin and body protection:* Protective suit

#### **Environmental exposure controls**

Handle in accordance with local environmental regulations and good industrial practices.

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

#### 9.1. Information on basic physical and chemical properties

Physical state	:	solid
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Colour : white

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Odour	:	odourless
molecular weight	:	210,14 g/mol
Melting point/range	:	ca. 135 - 152 °C
Flammability	:	The product is not flammable.
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	170 °C Decomposition temperature
рН	:	1,8 Concentration: 50 g/l at 20 °C
Auto-ignition temperature	:	not auto-flammable
Viscosity, kinematic	:	No data available
Water solubility	:	ca. 1.630 g/l at 20 °C
Partition coefficient: n- octanol/water	:	log Pow -1,72 at: 20 °C
Vapour pressure	:	No data available
Density	:	ca. 1,54 g/cm3 at 20 °C
Bulk density	:	ca. 900 kg/m3

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Relative vapour density	: No data available	
9.2 Other Information		
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	
Evaporation rate	: No data available	
Viscosity, dynamic	: No data available	

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

#### 10.1. Reactivity

Stable under recommended storage conditions.

#### 10.2. Chemical stability

>170 °C Decomposition temperature

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Avoid dust formation. To avoid thermal decomposition, do not overheat.

#### 10.5. Incompatible materials

Strong oxidizing agents Metals Reducing agents Alkalis

#### 10.6. Hazardous decomposition products

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In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2) Carbon monoxide

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

#### 11.1. Information on toxicological effects

Acute oral toxicity: LD50 Species: Mouse Value: 5.400 mg/kg Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Species: Rat Value: > 2.000 mg/kg Method: OECD Test Guideline 402

Acute inhalation toxicity: Not classified due to data which are conclusive although insufficient for classification.

Skin irritation: Species: Rabbit Result: slight irritation Method: OECD Test Guideline 404

*Eye irritation:* Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

Respiratory or skin sensitisation: No data available

*Carcinogenicity:* Species: not specified Note: No data available *Germ cell mutagenicity:* Note: Not classified due to data which are conclusive although insufficient for classification.

Reproductive toxicity: Species: not specified Remarks: Not classified due to data which are conclusive although insufficient for classification.

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STOT - single exposure: Remarks: Classification based on Annex VI of regulation 1272/2008/EC.

Aspiration hazard: No data available

#### 11.2. Information on other hazards

Endocrine disrupting properties No data available

*Other information:* Toxicological data applies only to the water free substance.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

*Toxicity to fish:* LC50 Species: Leuciscus idus (Golden orfe) Value: 440 mg/l Exposure time: 96 h

*Toxicity to aquatic plants:* Not classified due to data which are conclusive although insufficient for classification.

Toxicity to aquatic invertebrates: LC50 Species: Daphnia magna (Water flea) Value: 1.535 mg/l Exposure time: 24 h

#### 12.2. Persistence and degradability

*Biodegradability*: Readily biodegradable.

#### 12.3. Bioaccumulative potential

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Bioaccumulation is unlikely.

#### 12.4. Mobility in soil

No data available

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

No data available

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

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

#### 13.1. Waste treatment methods

*Product:* Dispose according to legal requirements.

Packaging: Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:* Provisions relating to waste: EC Directive 2006/12/EC; 2008/98/EEC Regulation No. 1013/2006

For personal protection see section 8.

#### **SECTION 14: Transport information**

 14.1 UN number

 ADR/RID:Not dangerous goods
 IMDG:Not dangerous goods
 IATA:

14.2 UN proper shipping name

ADR/RID:Not dangerous goods IMDG:Not dangerous goods IATA:Not dangerous goods

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IATA:Not dangerous goods



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#### 14.3 Transport hazard class(es)

#### 14.4 Packaging group

**14.5 Environmental hazards** ADR/RID:no

Marine pollutant: no

**14.6 Special precautions for user** No data available

**14.7 Maritime transport in bulk according to IMO instruments** No data available

#### **SECTION 15: Regulatory information**

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

Basis	Value	Remarks
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq$ 0.1 % (w/w).
Directive 2012/18/EC		Not applicable

#### **Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888

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Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
Germany	Freiburg : 0761/19240
Comany	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
	Munich : 089/19240
Latvia	+37167042473

Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

#### Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Industrial Chemicals Act (AIIC), as amended On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

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Korea. Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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

#### Text of H-statements referred to under heading 3

Citric acid monohydrate	:	H319	Causes serious eye irritation.
		H335	May cause respiratory irritation.

#### **Further information**

All directives and regulations refer to amended versions. Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations: EC European Community CAS Chemical Abstracts Service DNEL Derived no effect level PNEC Predicted no effect level vPvB Very persistent and very biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not

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to be considered a warranty or quality specification. The 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, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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