

Buffer concentrate pH 3.00

38742-1EA

Version 1.2

Revision Date 22.04.2022

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

1.1. Product identifier

Product name : Buffer concentrate pH 3.00
SDS-number : 000000022038
Type of product : Mixture
Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006.

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

Use of the Substance/Mixture : Laboratory chemicals
Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company : Honeywell International Inc. Honeywell International, Inc.
115 Tabor Road 115 Tabor Road
07950-2546 Morris Plains Morris Plains, NJ 07950-2546
USA USA
Telephone :
For further information, please contact: : SafetyDataSheet@Honeywell.com

1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)
Country based Poison Control Center : see chapter 15.1

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

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Not a hazardous substance or mixture.

2.2. Label elements

REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture.

Special labelling of certain products: : Safety data sheet available on request.

2.3. Other hazards

Results of PBT and vPvB assessment, see chapter 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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	> 5 % - < 10 %	
Sodium dihydrogen citrate	18996-35-5 242-734-6		> 1 % - < 5 %	N.C.*
Sodium chloride	7647-14-5 231-598-3		> 1 % - < 5 %	N.C.*
Citric acid monohydrate	5949-29-1 607-750-00-3	Eye Irrit. 2; H319 STOT SE 3; H335	< 10 %	

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	201-069-1			
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N.C.* - Non-hazardous substance - for information only

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

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:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Take off all contaminated clothing immediately. First aider needs to protect himself.

Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact:

Wash off with soap and plenty of water. Consult a physician.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids. Consult a physician.

Ingestion:

Rinse mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.

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.

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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:

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

In case of fire hazardous decomposition products may be produced such as:

Sodium oxides
Hydrogen chloride gas
carbon oxides (CO, CO₂).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.
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

Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing vapours, mist or gas.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

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Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

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:

Avoid inhalation of vapour or mist. Wear personal protective equipment. Use only in well-ventilated areas.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

General industrial hygiene practice. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

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

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

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
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Citric acid monohydrate					No data available
Sodium dihydrogen citrate					No data available
Sodium chloride	Workers / Long-term systemic effects		2068,62 mg/m ³	Inhalation	
Sodium chloride	Workers / Acute systemic effects		2068,62 mg/m ³	Inhalation	
Sodium chloride	Workers / Long-term systemic effects		295,52mg/k g bw/d	Skin contact	
Sodium chloride	Workers / Acute systemic effects		295,52mg/k g bw/d	Skin contact	
Sodium chloride	Consumers / Long-term systemic effects		443,28 mg/m ³	Inhalation	
Sodium chloride	Consumers / Acute systemic effects		443,28 mg/m ³	Inhalation	
Sodium chloride	Consumers / Long-term systemic effects		126,65mg/k g bw/d	Skin contact	
Sodium chloride	Consumers / Acute systemic effects		126,65mg/k g bw/d	Skin contact	
Sodium chloride	Consumers / Long-term systemic effects		126,65mg/k g bw/d	Ingestion	
Sodium chloride	Consumers / Acute systemic effects		126,65mg/k g bw/d	Ingestion	

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Citric acid monohydrate				No data available
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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	
Sodium dihydrogen citrate	Fresh water: 0,44 mg/l	Assessment factor: 1000
Sodium dihydrogen citrate	Marine water: 0,044 mg/l	Assessment factor: 10000
Sodium dihydrogen citrate	Sewage treatment plant: 1000 mg/l	Assessment factor: 10
Sodium dihydrogen citrate	Fresh water sediment: 34,6 mg/kg dw	
Sodium dihydrogen citrate	Marine sediment: 3,46 mg/kg dw	
Sodium dihydrogen citrate	Soil: 33,1 mg/kg dw	
Sodium chloride	Fresh water: 5 mg/l	Assessment factor: 50
Sodium chloride	Sewage treatment plant: 500 mg/l	Assessment factor: 10
Sodium chloride	Soil: 4,86 mg/kg dw	Assessment factor: 50
Citric acid monohydrate	Fresh water: 0,44 mg/l	Assessment factor: 1000
Citric acid monohydrate	Marine water: 0,044 mg/l	Assessment factor:

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		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

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; safety shoes EN-ISO 20345.

Do not breathe vapours or spray mist.

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection:

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 recommends to use the chemical protective glove in practice not longer than 50% of the recommended 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

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Eye protection:

Tightly fitting safety goggles

Skin and body protection:

Complete suit protecting against chemicals

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	:	liquid
Colour	:	No data available
Odour	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and applied as directed.
pH	:	3,0 at 20 °C
Auto-ignition temperature	:	No data available
Viscosity, kinematic	:	No data available
Water solubility	:	No data available

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Partition coefficient: n-
octanol/water : No data available

Vapour pressure : No data available

Density : No data available

Relative vapour density : No data available

9.2 Other Information

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

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong acids
Organic materials

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Bases
Reducing agents
Nitrates

10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Sodium oxides
Hydrogen chloride gas
carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:
No data available

Acute dermal toxicity:
No data available

Acute inhalation toxicity:
No data available

Skin irritation:
No data available

Eye irritation:
No data available

Respiratory or skin sensitisation:
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Aspiration hazard:
No data available

11.2. Information on other hazards

Endocrine disrupting properties
No data available

Other information:
No data available

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SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:
No data available

Toxicity to aquatic plants:
No data available

Toxicity to aquatic invertebrates:
No data available

12.2. Persistence and degradability

Biodegradability:
No data available

12.3. Bioaccumulative potential

No data available

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

We have no quantitative data concerning the ecological effects of this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

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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:Not dangerous goods

14.2 UN proper shipping name

ADR/RID:Not dangerous goods

IMDG:Not dangerous goods

IATA:Not dangerous goods

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

Poison Control Center

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Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+359)29154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
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
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
Munich : 089/19240	
Latvia	+37167042473

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
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
Not On TSCA Inventory

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

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)
Not in compliance with the inventory

Japan. Kashin-Hou Law List
Not in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)
Not 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 been carried out.

SECTION 16: Other information

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

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Honeywell
Fluka™

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CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very bioaccumulative substance
PBT Persistent, bioaccumulative 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 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.
