Honeywell Fluka

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

1.1. Product identifier				
Product name	Buffer concentrate pH 2.00			
SDS-number	: 00000022037	00000022037		
Type of product	: Mixture			
Remarks	: SDS according to Art. 31 of Regulation (EC) 1907/2006.			
1.2. Relevant identified u	s 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 suppli	f the safety data sheet			
Company	 Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA Honeywell International, Inc. Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-254 			
Telephone For further information, please contact:	SafetyDataSheet@Honeywell.com			
1.4. Emergency telephon	umber			
Emergency telephone number Country based Poison Control Center	 +1-703-527-3887 (ChemTrec-Transport) +1-303-389-1414 (Medical) 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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Corrosive to metals Category 1 H290 May be corrosive to metals.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H290
Precautionary statements	:	P234 P280

May be corrosive to metals.

Keep only in original container. Wear protective gloves/ eye protection/ face protection.

2.3. Other hazards

None known.

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	< 10 %	

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

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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:

If breathed in, move person into fresh air. If symptoms persist, call a physician.

Skin contact:

After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.

Eye contact:

Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.

Ingestion: When swallowed, allow water to be drunk. Rinse mouth. 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

No data available

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 Dry powder Carbon dioxide (CO2)

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: Hydrogen chloride gas Chlorine compounds Potassium oxide

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire.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

Wear personal protective equipment. Unprotected persons must be kept away. Provide adequate ventilation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

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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. Handle in accordance with good industrial hygiene and safety practice.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures: General industrial hygiene practice.

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

No DNEL-data available.

 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	

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.

Personal protective equipment

Respiratory protection: In the case of vapour formation use a 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.

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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 glasses with side-shields

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	:	liquid
Colour	:	No data available
Odour	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available

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Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	Stable under recommended storage conditions.
рН	:	2,0
Water solubility	:	completely miscible
Vapour pressure	:	No data available
Density	:	No data available

9.2 Other Information

Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Corrosive to metals	:	Corrosive to metals
Viscosity, dynamic	:	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

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None known.

10.5. Incompatible materials

Strong bases Metals

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

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: No data available

Carcinogenicity: Note: No data available

Germ cell mutagenicity: Note: No data available

Reproductive toxicity: Remarks: No data available

Aspiration hazard:

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No data available

11.2. Information on other hazards

Endocrine disrupting properties No data available

Other information: No data available

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

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

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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:1789 IMDG:1789 IATA:1789 14.2 UN proper shipping name ADR/RID: HYDROCHLORIC ACID IMDG:HYDROCHLORIC ACID IATA:Hydrochloric acid 14.3 Transport hazard class(es) ADR/RID: 8 IMDG: 8 IATA: 8 14.4 Packaging group ADR/RID: III IMDG: III IATA: III 14.5 Environmental hazards ADR/RID:no Marine pollutant: no 14.6 Special precautions for user IMDG Code segregation group (SGG1) - ACIDS, 14.7 Maritime transport in bulk according to IMO instruments

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No data available

SECTION 15: Regulatory information

Т

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

Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
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
	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
Germany	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240

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

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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	Munich : 089/19240
Latvia	+37167042473

Other inventory information

US. Toxic Substances Control Act Not 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) 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 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.

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	H335 M	May cause respiratory irritation.
Further information		
All directives and regul Vertical lines in the left		nded versions. te a relevant amendment from the previous version.
Abbreviations: EC European Comm CAS Chemical Abstr DNEL Derived no effect PNEC Predicted no eff vPvB Very persistent a PBT Persistent, bioac	acts Service ct level ect level and very biaccumulati	
information and belief a guidance for safe hand to be considered a war material designated an materials or in any pro- material is the sole res	at the date of its public lling, use, processing, ranty or quality specif id may not be valid for cess, unless specified ponsibility of the user.	ta Sheet is correct to the best of our knowledge, dication. The information given is designed only as a g, storage, transportation, disposal and release and is n cification. The information relates only to the specific or such material used in combination with any other ed in the text. Final determination of suitability of any er. arantee for any specific product properties.
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