

## Buffer concentrate pH 1.00

38740-1EA

Version 1.2

Revision Date 16.12.2022

---

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

#### 1.1. Product identifier

Product name : Buffer concentrate pH 1.00  
SDS-number : 000000021850  
Type of product : Mixture  
Remarks : SDS according to Art. 31 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](mailto: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

## Buffer concentrate pH 1.00

38740-1EA

Version 1.2

Revision Date 16.12.2022

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 May be corrosive to metals.

Precautionary statements : P234 Keep only in original container.  
P280 Wear protective gloves/ eye protection/  
face protection.

### 2.3. Other hazards

This product is a mixture. Health hazard information is based on its components.

## 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
hydrochloric acid	7647-01-0 017-002-01-X 231-595-7	Skin Corr. 1B; H314 STOT SE 3; H335; Respiratory system	< 5 %	STOT SE 3; H335: >= 10 % Skin Irrit. 2; H315: 10 - < 25 % Eye Irrit. 2; H319: 10 - < 25 %

**Buffer concentrate pH 1.00**

38740-1EA

Version 1.2

Revision Date 16.12.2022

Potassium chloride	7447-40-7 231-211-8		< 5 %	Skin Corr. 1B; H314:>= 25 % N.C.*
--------------------	------------------------	--	-------	--------------------------------------

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:*

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**

Treat symptomatically.

## Buffer concentrate pH 1.00

38740-1EA

Version 1.2

Revision Date 16.12.2022

---

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  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

*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

## Buffer concentrate pH 1.00

38740-1EA

Version 1.2

Revision Date 16.12.2022

---

Soak up with inert absorbent material.  
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

**Buffer concentrate pH 1.00**

38740-1EA

Version 1.2

Revision Date 16.12.2022

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

**8.1. Control parameters**

**Occupational exposure limits:**

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
hydrochloric acid	EH40 WEL STEL	8 mg/m <sup>3</sup> 5 ppm Gas and aerosol mists.		
hydrochloric acid	EH40 WEL TWA	2 mg/m <sup>3</sup> 1 ppm Gas and aerosol mists.		
hydrochloric acid	EH40 WEL	Gas and aerosol mists.		Listed
hydrochloric acid	EU ELV TWA	8 mg/m <sup>3</sup> 5 ppm		Indicative
hydrochloric acid	EU ELV STEL	15 mg/m <sup>3</sup> 10 ppm		Indicative

STEL - Short term exposure limit  
TWA - Time weighted average

**DNEL/ PNEC-Values**

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
hydrochloric acid	Workers / Acute local effects		15 mg/m <sup>3</sup>	Inhalation	
hydrochloric acid	Workers / Long-term local effects		8 mg/m <sup>3</sup>	Inhalation	
hydrochloric acid	Consumers / Acute local effects		15 mg/m <sup>3</sup>	Inhalation	

**Buffer concentrate pH 1.00**

38740-1EA

Version 1.2

Revision Date 16.12.2022

hydrochloric acid	Consumers / Long-term local effects		8 mg/m3	Inhalation	
Potassium chloride	Workers / Long-term systemic effects		1064 mg/m3	Inhalation	
Potassium chloride	Workers / Acute systemic effects		5320 mg/m3	Inhalation	
Potassium chloride	Workers / Long-term systemic effects		303mg/kg bw/d	Dermal	
Potassium chloride	Workers / Acute systemic effects		910mg/kg bw/d	Dermal	
Potassium chloride	Consumers / Long-term systemic effects		273 mg/m3	Inhalation	
Potassium chloride	Consumers / Acute systemic effects		1365 mg/m3	Inhalation	
Potassium chloride	Consumers / Long-term systemic effects		182mg/kg bw/d	Dermal	
Potassium chloride	Consumers / Acute systemic effects		910mg/kg bw/d	Dermal	
Potassium chloride	Consumers / Long-term systemic effects		91mg/kg bw/d	Ingestion	
Potassium chloride	Consumers / Long-term systemic effects		455mg/kg bw/d	Ingestion	

**Buffer concentrate pH 1.00**

38740-1EA

Version 1.2

Revision Date 16.12.2022

--	--	--	--	--	--

Component	Environmental compartment / Value	Remarks
Potassium chloride	Fresh water: 0,1 mg/l	
Potassium chloride	Marine water: 0,1 mg/l	
Potassium chloride	Sewage treatment plant: 10 mg/l	

**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.

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

*Eye protection:*

Safety glasses with side-shields



## Buffer concentrate pH 1.00

38740-1EA

Version 1.2

Revision Date 16.12.2022

*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
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: Stable under recommended storage conditions.
pH	: 1
Viscosity, kinematic	: No data available
Water solubility	: completely miscible
Vapour pressure	: No data available

## Buffer concentrate pH 1.00

38740-1EA

Version 1.2

Revision Date 16.12.2022

---

Density : No data available

Relative vapour 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

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

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

None known.

### 10.5. Incompatible materials

Strong bases

### 10.6. Hazardous decomposition products

**Buffer concentrate pH 1.00**

38740-1EA

Version 1.2

Revision Date 16.12.2022

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:*

No data available

**11.2. Information on other hazards**

Endocrine disrupting properties

No data available

*Other information:*

No data available

**Buffer concentrate pH 1.00**

38740-1EA

Version 1.2

Revision Date 16.12.2022

---

**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**

No data available

---

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

*Product:*

Dispose according to legal requirements.

**Buffer concentrate pH 1.00**

38740-1EA

Version 1.2

Revision Date 16.12.2022

*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 SOLUTION

IMDG:HYDROCHLORIC ACID SOLUTION

IATA:Hydrochloric acid solution

**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**

No data available

---

**SECTION 15: Regulatory information**

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

**Poison Control Center**

**Buffer concentrate pH 1.00**

38740-1EA

Version 1.2

Revision Date 16.12.2022

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
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  
On TSCA Inventory

## Buffer concentrate pH 1.00

38740-1EA

Version 1.2

Revision Date 16.12.2022

---

Australia. Inventory of Industrial Chemicals (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

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

Taiwan Chemical Substance Inventory (TCSI)  
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

hydrochloric acid : H314 Causes severe skin burns and eye damage.  
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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Honeywell**  
**Fluka™**

## Buffer concentrate pH 1.00

38740-1EA

Version 1.2

Revision Date 16.12.2022

---

### Abbreviations:

EC European Community

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.

---