

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

SECTION 1. IDENTIFICATION

Product name : Buffer concentrate pH 2.00

Number : 000000022037

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : No data available

Odor : No data available

Classification of the substance or mixture

Classification of the substance : Corrosive to metals, Category 1
or mixture

GHS Label elements, including precautionary statements

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

Symbol(s)

:



Signal word

: Warning

Hazard statements

: May be corrosive to metals.

Precautionary statements

: **Prevention:**

Keep only in original container.

Use personal protective equipment as required.

Response:

Absorb spillage to prevent material damage.

Storage:

Store in corrosive resistant container with a resistant inner liner.

Hazards not otherwise
classified: Repeated or prolonged exposure may irritate eyes, skin and
respiratory system.**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	90.00 - 100.00 %
Citric acid-1-hydrate	5949-29-1	5.00 - 10.00 %
Sodium chloride	7647-14-5	1.00 - 5.00 %

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

Hydrochloric acid

7647-01-0

<0.50 %

SECTION 4. 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.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Dry powder
Carbon dioxide (CO2)
- Specific hazards during firefighting : Fire may cause evolution of:
Hydrogen chloride gas
Chlorine compounds
Potassium oxide
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|---|
| 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 breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing. |
| Environmental precautions | : | Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system. |
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations. |

SECTION 7. HANDLING AND STORAGE**Handling**

- | | | |
|---|---|--|
| Precautions for safe handling | : | Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid inhalation, ingestion and contact with skin and eyes. |
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |

Storage

- | | | |
|--|---|--|
| Conditions for safe storage, including any incompatibilities | : | Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place. |
|--|---|--|

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | | |
|---------------------|---|--|
| Protective measures | : | Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the |
|---------------------|---|--|

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

selection, use and care of personal protective equipment.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

- Engineering measures : Use with local exhaust ventilation.
- Eye protection : Safety glasses with side-shields
- Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Protective suit
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : General industrial hygiene practice.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Color : No data available
- Odor : No data available
- pH : 2.0
- Melting point/range : Note: No data available
- Boiling point/boiling range : Note: No data available
- Flash point : Note: Not applicable
- Flammability : No data available

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

Lower explosion limit : Note: No data available

Upper explosion limit : Note: No data available

Vapor pressure : Note: No data available

Density : Note: No data available

Water solubility : Note: completely miscible

Ignition temperature : Note: No data available

Decomposition temperature : Note: Stable under recommended storage conditions.

Viscosity, dynamic : Note: No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Corrosivity : Note: Corrosive to metals

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous
reactions : None known.

Conditions to avoid : None known.

Incompatible materials : Strong bases
Metals

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

Hazardous decomposition : None known.
products

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: No data available
: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : Note: No data available

Skin irritation : Note: No data available

Eye irritation : Note: No data available

Sensitisation : Note: No data available

Genotoxicity in vitro : Note: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : Note: No data available

Toxicity to daphnia and other : Note: No data available
aquatic invertebrates

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

Toxicity to algae : Note: No data available

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1789
Proper shipping name : HYDROCHLORIC ACID
Class : 8
Packing group : III
Hazard Labels : 8

IATA UN/ID No. : UN 1789
Description of the goods : HYDROCHLORIC ACID
Class : 8
Packaging group : III
Hazard Labels : 8
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852
Packing instruction (passenger aircraft) : Y841

IMDG UN/ID No. : UN 1789
Description of the goods : HYDROCHLORIC ACID
Class : 8
Packaging group : III
Hazard Labels : 8
EmS Number : F-A, S-B
Marine pollutant : no
IMDG Code segregation group (SGG1) – ACIDS,

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act	: Not On TSCA Inventory
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)	: 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
Taiwan Chemical Substance Inventory (TCSI)	: On the inventory, or in compliance with the inventory

National regulatory information

TSCA	: This material must be used in compliance with the TSCA Research and Development Exemption requirements (40 CFR 720.36).
------	---

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

SARA 302 Components

: The following components are subject to reporting levels established by SARA Title III, Section 302:
: Hydrochloric acid 7647-01-0

SARA 313 Components

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

: Acute Health Hazard

California Prop. 65

:



WARNING: This product can expose you to chemicals, listed below, known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Phenylmercury chloride 100-56-1

Massachusetts RTK

: Hydrochloric acid 7647-01-0

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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

Buffer concentrate pH 2.00**38741-1EA**

Version 1.4

Revision Date 09/25/2023

Print Date 09/26/2023

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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 08/17/2018

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group