

Buffer concentrate pH 1.00**38740-1EA**

Version 1.1

Revision Date 12/06/2021

Print Date 05/15/2023

SECTION 1. IDENTIFICATION

Product name : Buffer concentrate pH 1.00

Number : 000000021850

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 or mixture : Corrosive to metals, Category 1
Skin irritation, Category 2
Serious eye damage, Category 1

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Danger

Hazard statements

: May be corrosive to metals.
Causes skin irritation.
Causes serious eye damage.

Precautionary statements

: **Prevention:**Keep only in original container.
Wash skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.**Response:**IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/ doctor.
If skin irritation occurs: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
Absorb spillage to prevent material damage.**Storage:**

Store in corrosive resistant container with a resistant inner liner.

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

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Water	7732-18-5	>=90.00 - <=100.00 %
Hydrochloric acid	7647-01-0	>=1.00 - <5.00 %
Potassium chloride	7447-40-7	>=1.00 - <5.00 %

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.

Notes to physician

Most important symptoms/effects, acute and delayed	: No information available.
Indication of immediate medical attention and special treatment needed, if necessary	: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Foam
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	Dry powder Carbon dioxide (CO ₂)
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.

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.

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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 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

Components	CAS-No.	Value	Control parameters	Update	Basis
Hydrochloric acid	7647-01-0	Ceiling : Ceiling Limit Value:	(2 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended

SAFETY DATA SHEET



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Hydrochloric acid	7647-01-0	Ceil_Tim e : Ceiling Limit Value and Time Period (if specified) :	7 mg/m3 (5 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Hydrochloric acid	7647-01-0	Ceiling : Ceiling Limit Value:	7 mg/m3 (5 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Hydrochloric acid	7647-01-0	Ceiling : Ceiling Limit Value:	7 mg/m3 (5 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: No data available
Odor	: No data available
Odor threshold	: Note: No data available
pH	: 1
Melting point/range	: Note: No data available
Boiling point/boiling range	: Note: No data available
Flash point	: Note: Not applicable

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Evaporation rate : Note: No data available

Flammability : No data available

Lower explosion limit : Note: No data available

Upper explosion limit : Note: No data available

Vapor pressure : Note: No data available

Vapor density : 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

Viscosity, kinematic : 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

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Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: None known.
Incompatible materials	: Strong bases
Hazardous decomposition products	: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: Note: No data available
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

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Ecotoxicity effects

Toxicity to fish : Note: No data available

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

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 SOLUTION
	Class	: 8
	Packing group	: III
	Hazard Labels	: 8

IATA	UN/ID No.	: UN 1789
	Description of the goods	: HYDROCHLORIC ACID SOLUTION
	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 SOLUTION
	Class	: 8

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Packaging group : III
Hazard Labels : 8
EmS Number : F-A, S-B
Marine pollutant : no
IMDG Code segregation group 1 – ACIDS,

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

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) : 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

National regulatory information

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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	:	The following components are subject to reporting levels established by SARA Title III, Section 313:
	:	Hydrochloric acid 7647-01-0
SARA 311/312 Hazards	:	Acute Health Hazard
California Prop. 65	:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Massachusetts RTK	:	Hydrochloric acid 7647-01-0
New Jersey RTK	:	Hydrochloric acid 7647-01-0
Pennsylvania RTK	:	Hydrochloric acid 7647-01-0

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	2
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 warranty or quality specification. The information relates only to the specific material designated and

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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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group