

# Buffer solution pH 4.0 (20 °C)

## 33665-500ML

Version 1.1 Revision Date 08/22/2018 Print Date 10/17/2019

#### **SECTION 1. IDENTIFICATION**

Product name : Buffer solution pH 4.0 (20 °C)

Number : 000000021869

Product Use Description : Laboratory chemicals

Scientific research and development

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 : red

Odor : odourless

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#### Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

Precautionary statements : Prevention:

Use personal protective equipment as required.

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 %
Sodium dihydrogen citrate	18996-35-5	<1.00 %
Disodium hydrogen citrate	144-33-2	<0.50 %
Sodium chloride	7647-14-5	<0.50 %

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### **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. Consult a physician.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray

Foam

Carbon dioxide (CO2)

Dry powder

Specific hazards during

firefighting

: Fire may cause evolution of:

Sodium oxides Carbon oxides

Gaseous hydrogen chloride (HCI).

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.

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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Provide adequate ventilation.

Wear personal protective equipment. Unprotected persons

must be kept away.

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

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

up

Precautions for safe

handling

: Wear personal protective equipment.

Handle in accordance with good industrial hygiene and safety

practice.

fire and explosion

Advice on protection against : 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

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selection, use and care of personal protective equipment.

Avoid contact with skin, eyes and clothing.

Engineering measures : Provide adequate 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 : red

Odor : odourless

Odor threshold : Note: no data available

pH : 4.0 at , 20 °C

Melting point/range : Note: no data available

Boiling point/boiling range : ca. 100 °C at 1,013 hPa

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Flash point : Note: Not applicable

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 : 1.0 g/cm3

Water solubility : Note: completely miscible

Partition coefficient:

n-octanol/water

: Note: no data available

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.

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### **SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : None known.

Incompatible materials : Strong bases

Strong oxidizing agents Strong reducing agents

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

#### **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

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: Note: no data available Genotoxicity in vitro

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity effects**

Toxicity to fish : Note: no data available

Toxicity to daphnia and other : Note: no data available

aquatic invertebrates

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 Not dangerous goods

**TDG** Not dangerous goods

**IATA** Not dangerous goods

**IMDG** Not dangerous goods

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#### SECTION 15. REGULATORY INFORMATION

**Inventories** 

US. Toxic Substances

Control Act

: Not On TSCA Inventory

Australia. Industrial

Chemical (Notification and

Assessment) Act

: 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. The Toxic Substances and Hazardous

and Nuclear Waste Control

Act

: On the inventory, or in compliance with the inventory

China. Inventory of Existing

Chemical Substances

: Not 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

**TSCA** 

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

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720.36).

:

SARA 302 Components : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

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 : No SARA Hazards

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

### **SECTION 16. OTHER INFORMATION**

Health hazard : 1 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**

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

Previous Issue Date: 01/26/2017

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group