# Buffer solution pH 9.00 (20°C)

33648-1L

Version 1.5 Revision Date 16.12.2022

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

### 1.1. Product identifier

| | | |
|---|---|---|
| Product name | : | Buffer solution pH 9.00 (20°C) |
| SDS-number | : | 000000021582 |
| Type of product | : | Mixture |
| Remarks | : | Document according to Art. 32 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.<br>115 Tabor Road<br>07950-2546 Morris Plains<br>USA | Honeywell International, Inc.<br>115 Tabor Road<br>Morris Plains, NJ 07950-2546<br>USA |
| Telephone | : | | |
| For further information, please contact: | : | SafetyDataSheet@Honeywell.com | |

### 1.4. Emergency telephone number

| | | |
|---|---|---|
| Emergency telephone number | : | +1-703-527-3887 (ChemTrec-Transport)<br>+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**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.2. Label elements

**REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Special labelling of certain products: : Safety data sheet available on request.

### 2.3. Other hazards

This product is a mixture. Health hazard information is based on its components. Results of PBT and vPvB assessment, see chapter 12.5.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Chemical name | CAS-No.<br>Index-No.<br>REACH Registration Number<br>EC-No. | Classification 1272/2008 | Concentration | Remarks |
|---|---|---|---|---|
| Sodium tetraborate | 1330-43-4<br>005-011-00-4<br>215-540-4 | Repr. 1B; H360FD | < 0,3 % | |

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.

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## 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. Call a physician immediately.

### 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.

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
Carbon dioxide (CO2)
Dry powder

*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:
Boron oxides

### 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

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

### 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.
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:*
Remove and wash contaminated clothing before re-use. When using do not eat or drink. Wash hands before breaks and at the end of workday.

### 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**

| Component | End-use/impact | Exposure duration | Value | Exposure routes | Remarks |
|---|---|---|---|---|---|
| Sodium tetraborate | Workers / Long-term systemic | | 6,7 mg/m3 | Inhalation | |

| | | | | | |
|---|---|---|---|---|---|
| | effects | | | | |
| Sodium tetraborate | Workers / Long-term systemic effects | | 316,4mg/kg bw/d | Dermal | |
| Sodium tetraborate | Consumers / Long-term systemic effects | | 3,41 mg/m3 | Inhalation | |
| Sodium tetraborate | Consumers / Long-term systemic effects | | 159,5mg/kg bw/d | Dermal | |
| Sodium tetraborate | Consumers / Long-term systemic effects | | 0,79mg/kg bw/d | Ingestion | |

| Component | Environmental compartment / Value | Remarks |
|---|---|---|
| Sodium tetraborate | Fresh water: 2,9 mg/l | |
| Sodium tetraborate | Marine water: 2,9 mg/l | |
| Sodium tetraborate | Sewage treatment plant: 10 mg/l | |
| Sodium tetraborate | Soil: 5,7 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

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 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 |
| Flash point | : | Not applicable |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | Stable under recommended storage conditions. |
| pH | : | 9 |
| Viscosity, kinematic | : | No data available |
| Water solubility | : | completely miscible |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | No data available |
| Density | : | ca. 1 g/cm3 |
| Relative vapour density | : | No data available |

### 9.2 Other Information

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

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Fire may cause evolution of:
Boron oxides

## 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
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

*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

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7. Other adverse effects

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: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

**14.4 Packaging group**

**14.5 Environmental hazards**
ADR/RID: no Marine pollutant: no

**14.6 Special precautions for user**
No data available

**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**

| Basis | Value | Remarks |
|---|---|---|
| Directive 2012/18/EC | | Not applicable |
| Substances of very high concern (SVHC) | | This product does contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w). |

**VOC:**
Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control), 0 %

**VOC:**
Directive 2004/42/EC, 0 %

**Poison Control Center**

| Country | Phone Number | Country | Phone Number |
|---|---|---|---|

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| | |
|---|---|
| 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 |

| | |
|---|---|
| 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

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

### 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.

Abbreviations:
EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very biaccumulative substance
PBT Persistent, bioaccmulative und toxic substance

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