

Buffer solution	pH 10.00	(20°C)
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33649-1L

Version 2.0

Revision Date 20.12.2022

Supersedes 1

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

1.1. Product identifier			
Product name	: Buffer solution pH 10.00 (20°C)	Buffer solution pH 10.00 (20°C)	
SDS-number	: 00000021848		
Type of product	: Mixture		
Remarks	: SDS according to Art. 31 of Regulation (EC) 1907/200	6.	
1.2. Relevant identified u	of the substance or mixture and uses advised agains	st	
Use of the Substance/Mixture	: Laboratory chemicals		
Uses advised against	none	none	
1.3. Details of the supplie	f the safety data sheet		
Company	 Honeywell International Inc. Honeywell Internation 115 Tabor Road 07950-2546 Morris Plains USA Honeywell Internation 115 Tabor Road Morris Plains, NJ 079 USA 	•	
Telephone For further information, please contact:	SafetyDataSheet@Honeywell.com		
1.4. Emergency telephone number			
Emergency telephone number Country based Poison Control Center	 +1-703-527-3887 (ChemTrec-Transport) +1-303-389-1414 (Medical) see chapter 15.1 		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture REGULATION (EC) No 1272/2008

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Reproductive toxicity Catego				
H360FD May damage fertility	. Ma	y damage the unborn	child.	
2.2. Label elements				
REGULATION (EC) No 1272/	2008	3		
Hazard pictograms	:			
Signal word	:	Danger		
Hazard statements	:	H360FD	May damage fertility. May unborn child.	damage the
Precautionary statements		P201 P263 P280 P308 + P313	Obtain special instructions Avoid contact during pregression while nursing. Wear protective gloves/ pro- clothing/ eye protection/ far hearing protection. IF exposed or concerned: advice/ attention.	nancy and rotective ace protection/
Hazardous components which must be listed on the label	:	Sodium tetraborate		
2.3. Other hazards				
This product is a mixture. Here vPvB assessment, see chapt			pased on its components. F	Results of PBT and
SECTION 3: Composition/inform	natio	on on ingredients		
3.1. Substance Not applicable				
3.2. Mixture				
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Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Sodium tetraborate	1330-43-4 005-011-00-4 215-540-4	Repr. 1B; H360FD	< 1 %	
Sodium hydroxide	1310-73-2 011-002-00-6 215-185-5	Met. Corr. 1; H290 Skin Corr. 1A; H314	< 0,5 %	Skin Corr. 1A; H314:>= 5 % Skin Corr. 1B; H314:2 - < 5 % Eye Irrit. 2; H319:0,5 - < 2 % Skin Irrit. 2; H315:0,5 - < 2 %

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.

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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.

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 (CO2)

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: Sodium oxides 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

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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

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. Use only in well-ventilated areas. Avoid exposure - obtain special instructions before use. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures:

Remove and wash contaminated clothing before re-use. Recommended preventive skin protection Wash hands before breaks and at the end of workday. Keep working clothes separately. Separate rooms are required for washing, showering and changing clothes.

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. Keep locked up or in an area accessible only to qualified or authorised persons.

7.3. Specific end use(s)

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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 effects		6,7 mg/m3	Inhalation	
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	
Sodium hydroxide	Workers / Long-term local effects		1 mg/m3	Inhalation	
Sodium hydroxide	Consumers / Long-term local effects		1 mg/m3	Inhalation	

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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. Avoid exposure - obtain special instructions before use.

Engineering measures

Provide adequate ventilation.

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.

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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	:	colourless
Odour	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	100 °C at 1.013 hPa
Flammability	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available

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Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	Stable under recommended storage conditions.
рН	:	10 at 20 °C
Water solubility	:	completely miscible
Vapour pressure	:	No data available
Density	:	1,01 g/cm3
Relative vapour density	:	No data available
9.2 Other Information		
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
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.

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10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidizing agents Strong acids

10.6. Hazardous decomposition products

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: Classification based on Annex VI of regulation 1272/2008/EC.

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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

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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 hazardsADR/RID:noMarine pollutant: no

14.6 Special precautions for user

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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
Austria	+4314064343	Liechtenstein	+41 442515151
Belgium	070 245245	Lithuania	+370532362052
Bulgaria	(+)35929154233	Luxembourg	070245245; (+352)80002-5500
Croatia	(+3851)23-48-342	Malta	+356 2395 2000
Cyprus	+357 2240 5611	Netherlands	030-2748888
Czech Republic	+420224919293; +420224915402	Norway	22591300
Denmark	82121212	Poland	+48 42 25 38 400

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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
	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
Germany	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
	Munich : 089/19240
Latvia	+37167042473

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

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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

Sodium tetraborate	:	H360FD child.	May damage fertility. May damage the unborn
Sodium hydroxide	:		May be corrosive to metals. Causes severe skin burns and eye damage.

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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This information should not constitute a guarantee for any specific product properties.

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