

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

# pH Buffer 4.01

Material number 238xx4

Revision date: 4/4/2023 Version: 11.2 Replaces version: 11.1 Language: en-GB Date of print: 6/4/2023

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

### 1.1 Product identifier

Trade name: pH Buffer 4.01

This safety data sheet pertains to the following products:

UFI: SM90-00YY-500Q-5DQY

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Buffer solution, calibration solution

### 1.3 Details of the supplier of the safety data sheet

Company name: Hamilton Sales & Service UK Ltd.

Street/POB-No.: Unit 1 Forge Mills Park

Coleshill

Postal Code, city: Birmingham B46 1JH

**Great Britain** 

www.hamiltoncompany.com

Department responsible for information:

After-sales service

E-mail: techsupport.pa.ch@hamilton.ch

Compliance

Qualisys GmbH, Germany E-mail: hamilton@qualisys.eu

Additional information: Manufacturer

Hamilton Bonaduz AG

Via Crusch 8

7402 Bonaduz, Switzerland

### 1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany, Telephone: +49 551-19240

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

# Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

### 2.2 Label elements

### Labelling (CLP)

Hazard statements: not applicable
Precautionary statements: not applicable

Lieferant | Supplier:
Carl Roth GmbH + Co KG
Schoemperlenstr. 3-5
Schoemperlenstr. 3-5
Schoemperlenstr. 3-5
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Special labelling

EUH208 Contains Mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and

2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Safety data sheet available on request.

#### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

# **SECTION 3: Composition/information on ingredients**

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: Aqueous solution with Potassium hydrogen phthalate

Hazardous ingredients:

Identifiers	Designation Classification	Content
	Mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	< 0.0015 %
	Acute Tox. 3; H301. Acute Tox. 2; H310. Acute Tox. 2; H330. Skin Corr. 1C; H314. Eye Dam. 1; H318. Skin Sens. 1A; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. (EUH071). Specific concentration limits (SCL): Skin Corr. 1C; H314: $C \ge 0.6 \%$ / Skin Irrit. 2; H315: $0.06 \% \le C < 0.6 \%$ / Eye Dam. 1; H318: $C \ge 0.6 \%$ / Eye Irrit. 2; H319: $0.06 \le C < 0.6 \%$ Skin Sens. 1A; H317: $C \ge 0.0015 \%$ M-factors: Aquatic Acute 1: $M = 100$ . Aquatic Chronic 1: $M = 100$ .	

Full text of H- and EUH-statements: see section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand.

Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air. In case of respiratory difficulties seek medical attention.

Following skin contact: Remove residues with soap and water.

In case of skin reactions, consult a physician.

After eye contact: With eyelids open, wash out eyes for several minutes under flowing water. Remove contact

lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms,

consult an opthalmologist.

After swallowing: Rinse mouth and drink large quantities of water.

If you feel unwell, seek medical advice.

# 4.2 Most important symptoms and effects, both acute and delayed

May cause allergic reactions in already sensitized persons.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to

surroundings.

### 5.2 Special hazards arising from the substance or mixture

Fires in the immediate vicinity may cause the development of dangerous vapours.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

In case of surrounding fires: Wear self-contained breathing apparatus.

Additional information: Hazchem-Code: -

Use fine water spray to cool endangered containers.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with

the regulations of the local authorities.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

# 6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Wash spill area with plenty

of water.

Additional information: Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation. Avoid contact with skin and eyes. Wear appropriate protective

equipment. Take off contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed. Store at room temperature.

Protect from frost.

Store containers in upright position.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

keep away from acids and alkalis

# 7.3 Specific end use(s)

No information available.



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# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

#### Personal protection equipment

### Occupational exposure controls

Respiratory protection: Provide adequate ventilation.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber or butyl caoutchouc (butyl rubber).

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Do not breathe vapours. Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

#### **Environmental exposure controls**

Refer to "6.2 Environmental precautions".

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Colour: Red

Odourless Odourless

Odour threshold: No data available

at 20 °C: 4.0 Melting point/freezing point: No data available Initial boiling point and boiling range: approx. 100 °C Flash point/flash point range: No data available Evaporation rate: No data available Flammability: No data available Explosion limits: No data available Vapour pressure: No data available Vapour density: No data available

Density: at 20 °C: approx. 1.0 g/mL

Water solubility: at 20 °C: Completely miscible

Partition coefficient: n-octanol/water:

No data available
Auto-ignition temperature:
No data available
Decomposition temperature:
No data available
Viscosity, kinematic:
No data available
Explosive properties:
No data available
Oxidizing characteristics:
No data available



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#### 9.2 Other information

 Solid content:
 0.9 - 1.9 %

 Water content:
 98.1 - 99.1 %

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Refer to subsection "Possilbility of hazardous reactions".

# 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Protect from frost.

## 10.5 Incompatible materials

Strong acids and alkalis

### 10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition: No data available

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Toxicological effects: The statement

The statements are derived from the properties of the single components. No toxicological data

is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met.

 $Contains\ Mixture\ of\ 5-chloro-2-methyl-2 H-isothiazolin-3-one\ and\ 2-methyl-2 H-isothiazol-3-one\ and\ 2-methyl-2 H-isothiazol-3-one\$ 

(3:1). May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data. Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.



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# **SECTION 12: Ecological information**

### 12.1 Toxicity

Further details: No data available

### 12.2 Persistence and degradability

Further details: No data available

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

General information: Do not allow to enter undiluted resp. in large quantities into surface water or into drains.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Waste key number: 06 03 14 = Solid salts and solutions, which contain neither heavy metals nor cyanides

Recommendation: Dispose of waste according to applicable legislation.

**Package** 

Waste key number: 15 01 02 = Plastic packaging

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be

recycled.

# **SECTION 14: Transport information**

### 14.1 UN number

ADR/RID, IMDG, IATA-DGR: not applicable

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

### 14.5 Environmental hazards

Marine pollutant: no

# 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.



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### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

# **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### National regulations - Great Britain

Hazchem-Code:

No data available

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

# **SECTION 16: Other information**

#### **Further information**

Wording of the H-phrases under paragraph 2 and 3:

EUH208 = Contains Mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and

2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH210 = Safety data sheet available on request.

H301 = Toxic if swallowed.

H310 = Fatal in contact with skin.

H314 = Causes severe skin burns and eye damage.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H330 = Fatal if inhaled.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

EUH071 = Corrosive to the respiratory tract.

Abbreviations and acronyms: ADN: European Agreem

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

Aquatic Acute: Hazardous to the aquatic environment - acute Aquatic Chronic: Hazardous to the aquatic environment - chronic

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level

DNEL: Derived no-effect level

EC: European Community EN: European Standard

EQ: Excepted quantities

Eye Dam.: Eye damage

IATA: International Air Transport Association

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships M-factor: Multiplication factor

Mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)Acute Tox.: Acute toxicity

OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

Skin Corr.: Skin corrosion
Skin Sens.: Skin sensitisation

TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 1: Article No.

Date of first version: 18/2/2011

Department issuing data sheet

Contact person: see section 1: Department responsible for information



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Most recent product information is available and http://sumdat.net/z3g1umn