

Be Right™

# **Safety Data Sheet**

HACH LANGE GmbH

according to Regulation (EC) No 1907/2006

# 27700-20 Singlet pH Buffer Solution; pH 4.01

Revision date: 03.05.2021 Product code: 2770020 Page 1 of 8

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

#### 1.1. Product identifier

27700-20 Singlet pH Buffer Solution; pH 4.01

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

# Use of the substance/mixture

Water analysis

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

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach.com
Internet: www.de.hach.com
Responsible Department: HACH LANGE Ltd.

5, Pacific Way

Salford Manchester M50 1DL - United Kingdom Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324

e-Mail: info-uk@hach.com

HACH LANGE Ltd.

Unit 1, Chestnut Road Western Industrial Estate

IRL-Dublin 12

Tel. +353 (0)1 4602522 e-Mail: info-ie@hach.com

1.4. Emergency telephone Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency

number: service -

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

# 2.2. Label elements

# Additional advice on labelling

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

# 2.3. Other hazards

no data available

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

#### 3.2. Mixtures



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# 27700-20 Singlet pH Buffer Solution; pH 4.01

Revision date: 03.05.2021 Product code: 2770020 Page 2 of 8

#### **Hazardous components**

CAS No	Chemical name		Quantity		
	EC No	Index No	REACH No		
	GHS Classification				
7732-18-5	Water				
	231-791-2				
877-24-7	Potassium hydrogen phthalate				
	212-889-4				
	Acute Tox. 4, Eye Irrit. 2; H312 H319				

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

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

#### 4.1. Description of first aid measures

#### **General information**

Take off contaminated clothing and shoes immediately.

Show this safety data sheet to the doctor in attendance.

#### After inhalation

Move to fresh air.

If symptoms persist, call a physician.

#### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

If skin irritation persists, call a physician.

# After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

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

No known effect.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

None known.

# 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

#### 5.3. Advice for firefighters

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. In the event of fire, wear self-contained breathing apparatus.

#### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local





# Be Right™

according to Regulation (EC) No 1907/2006

# 27700-20 Singlet pH Buffer Solution; pH 4.01

Revision date: 03.05.2021 Product code: 2770020 Page 3 of 8

regulations.

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

# 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

13. Disposal considerations

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

### Advice on safe handling

Avoid contact with skin and eyes.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.

# 7.3. Specific end use(s)

Reagent for analysis

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

#### 8.1. Control parameters

#### 8.2. Exposure controls

### Appropriate engineering controls

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Protective and hygiene measures

Wash hands before breaks and at the end of workday.

#### Eye/face protection

Safety glasses with side-shields

#### Hand protection

Use barrier skin cream. Wash hands before breaks and at the end of workday. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Glove material (Break through time > 480 Min.):

butyl-rubber (0,5 mm)

Fluorinated rubber (0,4 mm)

#### Skin protection

Avoid contact with skin, eyes and clothing.

#### Respiratory protection

Provide adequate ventilation.

# **Environmental exposure controls**

Should not be released into the environment.





# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# 27700-20 Singlet pH Buffer Solution; pH 4.01

Revision date: 03.05.2021 Product code: 2770020 Page 4 of 8

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

#### 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: red
Odour: odourless

pH-Value (at 20 °C): 4,01

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

Pour point:

Ino data available

no data available

**Flammability** 

Solid: not applicable
Gas: not applicable

**Explosive properties** 

no data available

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

no data available

no data available

**Auto-ignition temperature** 

Solid: not applicable
Gas: not applicable

Decomposition temperature: no data available

**Oxidizing properties** 

no data available

Vapour pressure:

Vapour pressure:

Density (at 20 °C):

Bulk density:

no data available

1,02 g/cm³

no data available

soluble

water solubility:

soluble

(at 20 °C)

Solubility in other solvents

no data available

Partition coefficient: no data available no data available Viscosity / dynamic: no data available Viscosity / kinematic: Flow time: no data available Vapour density: no data available Evaporation rate: no data available Solvent separation test: no data available Solvent content: no data available





Be Right™

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# 27700-20 Singlet pH Buffer Solution; pH 4.01

Revision date: 03.05.2021 Product code: 2770020 Page 5 of 8

# 9.2. Other information

Solid content: no data available

no data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

no data available

### 10.2. Chemical stability

no data available

# 10.3. Possibility of hazardous reactions

no data available

#### 10.4. Conditions to avoid

no data available

#### 10.5. Incompatible materials

no data available

# 10.6. Hazardous decomposition products

no data available

#### **Further information**

Stable under recommended storage conditions.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### **Acute toxicity**

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

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
877-24-7	Potassium hydrogen phthalate							
	oral	LD50 mg/kg	3200	rat	RTECS			
	dermal	LD50 mg/kg	>1000	guinea pig				

#### Irritation and corrosivity

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

#### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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

# STOT-single exposure

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

### STOT-repeated exposure

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

#### **Aspiration hazard**

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

# Specific effects in experiment on an animal

no data available





Be Right"

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# 27700-20 Singlet pH Buffer Solution; pH 4.01

Revision date: 03.05.2021 Product code: 2770020 Page 6 of 8

#### **Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No information on ecology is available.

Do not flush into surface water or sanitary sewer system.

# 12.2. Persistence and degradability

no data available

#### 12.3. Bioaccumulative potential

no data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
877-24-7	Potassium hydrogen phthalate	-2,73

#### 12.4. Mobility in soil

no data available

# 12.5. Results of PBT and vPvB assessment

no data available

#### 12.6. Other adverse effects

no data available

#### **Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

In accordance with local and national regulations.

#### List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

# List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

# List of Wastes Code - contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

#### Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

# Other applicable information (land transport)

No dangerous good in sense of this transport regulation.



HACH LANGE GmbH



Be Right"

according to Regulation (EC) No 1907/2006

# 27700-20 Singlet pH Buffer Solution; pH 4.01

Product code: 2770020 Revision date: 03.05.2021 Page 7 of 8

#### Inland waterways transport (ADN)

### Other applicable information (inland waterways transport)

No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

#### Other applicable information (marine transport)

No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

#### Other applicable information (air transport)

No dangerous good in sense of this transport regulation.

#### 14.5. Environmental hazards

**ENVIRONMENTALLY HAZARDOUS:** 

#### 14.6. Special precautions for user

No special precautions required.

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

Not relevant

# **SECTION 15: Regulatory information**

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

#### **National regulatory information**

**Employment restrictions:** Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Changes

Revision: 03.05.2021

Safety datasheet sections which have been updated: 7

Revision: 10.03.2020

Safety datasheet sections which have been updated: 2, 4, 11, 15

Revision: 30.07.2018

Safety datasheet sections which have been updated: 14

Revision: 28.02.2018

Safety datasheet sections which have been updated: 8, 11, 13, 15

Revision: 04.07.2014

Safety datasheet sections which have been updated: 2, 3

Revision: 27.11.2012

Safety datasheet sections which have been updated: 2-15

#### Relevant H and EUH statements (number and full text)

H312 Harmful in contact with skin. H319 Causes serious eye irritation.

# **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.





# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# 27700-20 Singlet pH Buffer Solution; pH 4.01

Revision date: 03.05.2021 Product code: 2770020 Page 8 of 8

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)