

# Safety Data Sheet

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision date: 29.11.2022

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## SECTION 1: Identification

### Product identifier

Trade name/designation:	Buffer, Reference Standard pH 7.00 ± 0.01 at 25 °C (Color Coded Yellow)
Product No.:	BDH5046
Synonyms:	none
CAS No.:	not applicable

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

Recommended use	For Further Manufacturing Use Only
Uses advised against	Not for Human or Animal Drug Use

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

#### Supplier

##### VWR International LLC

Street	100 Matsonford Road Radnor Corporate Center, Building One, Suite 200 P. O. Box 6660
Postal code/City	Radnor, PA 19087
Telephone	+1-800-932-5000 toll-free within US/Canada +1-610-386-1700
Telefax	+1-610-728-2103

**Emergency phone number**

Telephone +1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA)

**Preparation Information**

VWR International - Product Information Compliance

E-mail SDS@avantorsciences.com

**SECTION 2: Hazard identification****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**

This mixture is classified as not hazardous according to regulation 29 CFR 1910.1200 (OSHA HCS).

**2.2 Label elements****Labelling in accordance with 29 CFR 1910.1200 (OSHA HCS)**

According to regulation 29 CFR 1910.1200 (OSHA HCS) the product does not have to be labelled.

**Hazard(s) not otherwise classified (HNOC)**

none

**SECTION 3: Composition / information on ingredients****3.1 Substances**

not applicable

**3.2 Mixtures**

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of regulation 29 CFR 1910.1200 (OSHA HCS)

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice. Change contaminated, saturated clothing. Wash contaminated clothing before reuse. Do not leave affected person unattended.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. Obtain medical attention if symptoms appear.

**In case of skin contact**

Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

**After eye contact:**

Rinse immediately carefully and thoroughly with eye-bath or water. Obtain medical attention if symptoms appear.

**In case of ingestion**

Rinse mouth thoroughly with water. Call a doctor if you feel unwell.

**Self-protection of the first aider**

First aider: Pay attention to self-protection!

**4.2 Most important symptoms/effects, acute and delayed**

No known symptoms to date.

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

No special information on medical attention and special treatment available.

## SECTION 5: Fire fighting measures

**5.1 Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Water spray.

Dry extinguishing powder.

Alcohol resistant foam.

Carbon dioxide (CO<sub>2</sub>).

**Extinguishing media which must not be used for safety reasons**

Full water jet.

**5.2 Specific hazards arising from the chemical**

In case of fire and/or explosion do not breathe fumes.

Do not allow run-off from fire-fighting to enter drains or water courses.

In case of fire: Evacuate area.

In case of fire may be liberated:

Pyrolysis products, toxic

**5.3 Advice for firefighters**

The product itself does not burn.

Do not breathe gas/fume/vapor/spray.

Fight fire with normal precautions from a reasonable distance.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

no data available

## SECTION 6: Accidental release measures

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

For non-emergency personnel: Remove victim out of the danger area. First Aid, decontamination, treatment of symptoms.

## 6.2 Environmental precautions

No special environmental measures are necessary.

## 6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Dispose according to legislation.

## 6.4 Additional information

Personal protection equipment (PPE): see section 8 Disposal information: see section 13

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Advices on safe handling

No special measures are necessary.

Measures to prevent fire, aerosol and dust generation

No special measures are necessary.

Measures required to protect the environment

No special measures are necessary.

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

## 7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: 4-30 °C

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

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

## 8.2 Engineering controls

### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

#### *Eye/face protection*

Eye glasses with side protection

#### *Skin protection*

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

By short-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,12 mm
Breakthrough time:	> 480 min

By long-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,12 mm
Breakthrough time:	> 480 min

*Respiratory protection*

Usually no personal respirative protection necessary.

*Additional information*

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

*Environmental exposure controls*

no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

(a) Appearance	
Physical state:	liquid
Color:	yellow
(b) Odor:	no data available
(c) Odor threshold:	no data available

#### Safety relevant basic data

(d) pH:	7.00 (25 °C) ± 0.01
(e) Melting point/freezing point:	no data available
(f) Initial boiling point and boiling range:	no data available
(g) Flash point:	no data available
(h) Evaporation rate:	no data available
(i) Flammability (solid, gas):	not applicable
(j) Flammability or explosive limits	
Lower explosion limit:	no data available
Upper explosion limit:	no data available
(k) Vapor pressure:	no data available
(l) Vapor density:	no data available
(m) Density:	no data available
(n) Solubility(ies)	
Water solubility:	no data available
(o) Partition coefficient: n-octanol/water:	no data available
(p) Auto-ignition temperature:	no data available
(q) Decomposition temperature:	not applicable
(r) Viscosity	
Kinematic viscosity:	no data available
Dynamic viscosity:	no data available
(s) Explosive properties:	not applicable
(t) Oxidising properties:	not applicable
(u) Particle characteristics:	does not apply to liquids

### 9.2 Other information

Bulk density:	no data available
Refraction index:	no data available
Dissociation constant:	no data available
Surface tension:	no data available
Henry's Law Constant:	no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is non-reactive under normal conditions.

## 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

## 10.3 Possibility of hazardous reactions

No further relevant information available.

## 10.4 Conditions to avoid

No further relevant information available.

## 10.5 Incompatible materials

No further relevant information available.

## 10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

## 10.7 Additional information

no data available

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Acute effects

*Acute oral toxicity:*

no data available

*Acute dermal toxicity:*

no data available

*Acute inhalation toxicity:*

no data available

### Irritant and corrosive effects

*Primary irritation to the skin:*

not applicable

*Irritation to eyes:*

not applicable

*Irritation to respiratory tract:*

not applicable

**Respiratory or skin sensitization**

In case of skin contact: not sensitizing

In case of inhalation: not sensitizing

**STOT-single exposure**

not applicable

**STOT-repeated exposure**

not applicable

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Carcinogenicity**

No indication of human carcinogenicity.

**Germ cell mutagenicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

not applicable

**Other adverse effects**

no data available

**Additional information**

no data available

## SECTION 12: Ecological information

### 12.1 Ecotoxicity

**Fish toxicity:**

no data available

**Daphnia toxicity:**

no data available

**Algae toxicity:**

no data available

**Bacteria toxicity:**

no data available

### 12.2 Persistence and degradability

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/vPvB assessment**

not applicable

**12.6 Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to the environment.

**12.7 Other adverse effects**

no data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Appropriate disposal / Product**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Before discharge into sewage plants the product normally needs to be neutralised.

Waste code product: no data available

**Appropriate disposal / Package**

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

**Additional information**

no data available

**SECTION 14: Transport information****Land transport (DOT)**

No dangerous good in sense of this transport regulation.

**Sea transport (IMDG)**

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
not relevant

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

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

### **National regulations**

#### **Toxic Substances Control Act (TSCA)**

- Sodium phosphate dibasic anhydrous - CAS No.: 7558-79-4
- Potassium phosphate monobasic - CAS No.: 7778-77-0
- Water - CAS No.: 7732-18-5

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Does not contain listed substances.

#### **SARA 313 Components**

Does not contain listed substances.

### **US State Regulations**

#### **Massachusetts Right To Know Components**

- Sodium phosphate dibasic anhydrous - CAS No.: 7558-79-4

#### **Pennsylvania Right To Know Components**

- Sodium phosphate dibasic anhydrous - CAS No.: 7558-79-4

#### **New Jersey Right To Know Components**

- Sodium phosphate dibasic anhydrous - CAS No.: 7558-79-4

#### **California Prop. 65 Components**

Does not contain listed substances.

## SECTION 16: Other information

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
 DOT - Department of Transportation  
 IARC - International Agency for Research on Cancer  
 IATA-DGR - International Air Transport Association-Dangerous Goods Regulations  
 ICAO-TI - International Civil Aviation Organization-Technical Instructions  
 IMDG - International Maritime Code for Dangerous Goods  
 LTV - Long Term Value  
 NIOSH - National Institute for Occupational Safety and Health  
 NTP - National Toxicology Program  
 OSHA - Occupational Safety & Health Administration  
 PBT - Persistent, Bioaccumulative and Toxic  
 PEL - Permissible Exposure Limit  
 STV - Short Term Value  
 SVHC - Substances of Very High Concern  
 TDG - Transport of Dangerous Goods  
 TLV - Threshold Limit Value  
 vPvB - very Persistent, very Bioaccumulative

### Key literature references and sources for data

This Safety Data Sheet has been prepared based on information available for public as TOXNET information, European Chemicals Agency (ECHA) substance dossier, papers from international cancer research institutes (IARC Monographs), U.S. National Toxicology Program data, U.S. Agency for Toxic Substances and Disease Control (ATSDR), PubChem websites and SDS from our raw material manufacturers.

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### Additional information

Indication of changes      general update

If you need an explanation of the change, contact the supplier (SDS@avantorsciences.com).

*The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.*