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

### 1.1. Product identifier

43149 Buffer Solution pH 7.00

### 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.<br>5, Pacific Way<br>Salford Manchester M50 1DL - United Kingdom<br>Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324<br>e-Mail: info-uk@hach.com<br><br>HACH LANGE Ltd.<br>Unit 1, Chestnut Road Western Industrial Estate<br>IRL-Dublin 12<br>Tel. +353 (0)1 4602522<br>e-Mail: info-ie@hach.com |

### 1.4. Emergency telephone number:

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency 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**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Hazardous components**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 7732-18-5 | Water | | | > 95 % |
| | 231-791-2 | | | |
| | | | | |
| 7758-11-4 | di-potassium hydrogen phosphate | | | 1-5 % |
| | 231-834-5 | | | |
| | | | | |
| 7558-79-4 | di-Sodium hydrogen phosphate | | | 1-5 % |
| | 231-448-7 | | 01-2119489797-11 | |
| | Skin Irrit. 2, Eye Irrit. 2; H315 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 all contaminated clothing immediately.

**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**

Immediately flush eye(s) with plenty of water.
If eye irritation persists, consult a specialist.

**After ingestion**

Clean mouth with water and drink afterwards plenty of water.

### 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.

### 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 case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

**Additional information**

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

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

### 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.
Do not breathe vapours/dust.
Wash thoroughly after handling.
General industrial hygiene practice.

**Advice on protection against fire and explosion**

See also section 5

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

**Requirements for storage rooms and vessels**

Keep in a dry, cool place.

**Hints on joint storage**

None known.

### 7.3. Specific end use(s)

Reagent for analysis

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Additional advice on limit values**

None known.

### 8.2. Exposure controls

**Appropriate engineering controls**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

**Protective and hygiene measures**

Wash hands before breaks and after work.
General industrial hygiene practice.
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Eye/face protection**

Safety glasses with side-shields

**Hand protection**

Use barrier skin cream.
Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

**Skin protection**

Remove and wash contaminated clothing before re-use.

**Respiratory protection**

Provide adequate ventilation.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state: | |
| Colour: | colourless |
| Odour: | odourless |
| pH-Value: | 7,4 |
| **Changes in the physical state** | |
| Melting point: | -2 °C |
| Initial boiling point and boiling range: | 100 °C |
| Sublimation point: | not applicable |
| Softening point: | not applicable |
| Pour point: | not applicable |
| : | no data available |
| Flash point: | not applicable |
| Sustaining combustion: | No data available |
| **Flammability** | |
| Solid: | not applicable |
| Gas: | not applicable |
| **Explosive properties** | |
| not applicable | |
| Lower explosion limits: | not applicable |
| Upper explosion limits: | not applicable |
| Ignition temperature: | not applicable |
| **Auto-ignition temperature** | |
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | not applicable |
| **Oxidizing properties** | |
| not applicable | |
| Vapour pressure: | no data available |
| Vapour pressure: | no data available |
| Density: | 1,043 g/cm³ |
| Bulk density: | not applicable |
| Water solubility: | soluble |
| **Solubility in other solvents** | |
| soluble | |
| Partition coefficient: | no data available |

| | |
|---|---|
| Viscosity / dynamic: | no data available |
| Viscosity / kinematic: | no data available |
| Flow time: | no data available |
| Vapour density: | no data available |
| Evaporation rate: | 0,67 |
| Solvent separation test: | no data available |
| Solvent content: | no data available |

**9.2. Other information**

| | |
|---|---|
| Solid content: | not applicable |

no data available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

**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**

Extremes of temperature and direct sunlight.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

None known.

**Further information**

None known.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.
No data is available on the product itself.

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure route | Dose | Species | Source | Method |
| 7758-11-4 | di-potassium hydrogen phosphate | | | | |
| | oral | LD50 8000 mg/kg | rat | | |
| 7558-79-4 | di-Sodium hydrogen phosphate | | | | |
| | oral | LD50 17000 mg/kg | rat | | |

**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.
Contains no ingredient listed as a carcinogen

**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.
No aspiration toxicity classification

**Specific effects in experiment on an animal**

No data is available on the product itself.

**Additional information on tests**

no data available

**Practical experience**

**Observations relevant to classification**

no data available

**Other observations**

no data available

**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 data is available on the product itself.

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | [h] \| [d] | Species | Source | Method |
| 7558-79-4 | di-Sodium hydrogen phosphate | | | | | |
| | Acute crustacea toxicity | EC50 1089 mg/l | 48 h | Daphnia magna (Water flea) | | |

### 12.2. Persistence and degradability

No data is available on the product itself.

### 12.3. Bioaccumulative potential

No data is available on the product itself.

### 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 known effect.

**Further information**

no data available

## 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)**

Not subject to transport regulations.

**Marine transport (IMDG)**

**Other applicable information (marine transport)**

Not subject to transport regulations.

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

**Other applicable information (air transport)**

Not subject to transport regulations.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

no data available

### 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**

Water hazard class (D): - - non-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 Date 05.10.2016

Safety datasheet sections which have been updated: 1-16

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

| | |
|---|---|
| H315 | Causes skin irritation. |
| 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.

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