

**pH Buffer 7.00**

Material number 238xx7

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name: pH Buffer 7.00

This safety data sheet pertains to the following products:

Article number 238188, 238218, 238267, 238318, 238333, 238844, 238896, 238918,  
242221, 242145, 242318.**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 Bonaduz AG

Street/POB-No.: Via Crusch 8

Postal Code, city: 7402 Bonaduz

Switzerland

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Susanne Näf-Rüdiger,

Telephone: +41 58 610 12 76, E-mail [SNaef@hamilton.ch](mailto:SNaef@hamilton.ch)**1.4 Emergency telephone number****GIZ-Nord, Germany, Telephone: +49 (0)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

**2.3 Other hazards**

No risks worthy of mention.

Results of PBT and vPvB assessment:

No data available

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

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterisation: Mixture of inorganic salts in aqueous solution with dye

Additional information: Preparation does not contain dangerous substances above limits that need to be mentioned in this section according to applicable EU-legislation.

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

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

Following skin contact: Remove residues with water. Remove contaminated clothing.  
In case of skin reactions, consult a physician.

After eye contact: With eyelids open, wash out eyes for several minutes under flowing water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth and drink large quantities of water.  
After ingestion of high quantities: Induce vomiting.  
If you feel unwell, seek medical advice.**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.

**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: -

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear suitable protective clothing. Avoid contact with skin and eyes.

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**6.2 Environmental precautions**

Discharge into the environment must be avoided.

**6.3 Methods and material for containment and cleaning up**

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

**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: Do not breathe vapours. Wear suitable protective clothing. Avoid contact with skin and eyes.

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

Requirements for storerooms and containers:

Keep container tightly closed. Store at room temperature.

**7.3 Specific end use(s)**

buffer solution, calibration solution

**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.

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:

Change contaminated clothing.

Wash hands before breaks and after work.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance:	Form: liquid Colour: green
Odour:	odourless
Odour threshold:	No data available
pH value:	at 20 °C: 7.0 g/mL
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

**9.2 Other information**

Additional information: No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

refer to 10.3

**10.2 Chemical stability**

Product is stable under normal storage conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known.

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Metals

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**10.6 Hazardous decomposition products**

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

Thermal decomposition: No data available

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data.
- Eye damage/irritation: Lack of data.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Lack of data.
- 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.

**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.

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**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.

**Contaminated packaging**

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.

**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

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**15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.

**SECTION 16: Other information****Further information**

Reason of change: Changes in section 1.1: product identifier

Date of first version: 20/1/2010

**Department issuing data sheet**

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.