

**pH Buffer 7.00**

Material number 238xx7

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## 1. Product and company identification

**Product identifier**

Trade name: pH Buffer 7.00

This safety data sheet pertains to the following products:

Article number 238188, 238218, 238267, 238318, 238333, 238896, 238918, 238922, 238924, 242318.

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

General use: Buffer solution, calibration solution

**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

WWW: [www.hamiltoncompany.com](http://www.hamiltoncompany.com)

Telephone: +41 58 610 10 10

Department responsible for information:

After-sales service

E-mail: [techsupport.pa.ch@hamilton.ch](mailto:techsupport.pa.ch@hamilton.ch)**Emergency phone number****GIZ-Nord, Göttingen, Germany,****Telephone: +49 551-19240**

## 2. Hazards identification

**Emergency overview**

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Color: green

Odor: odorless

Classification: This material is classified as not hazardous.

**Regulatory status**

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Hazards not otherwise classified**

Special danger of slipping by leaking/spilling product.

see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterization: Aqueous solution with Potassium dihydrogenorthophosphate and Disodium hydrogenorthophosphate.

## 4. 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. Remove contact lenses, if present and easy to do. Continue rinsing. 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. Never give anything by mouth to an unconscious person.  
If you feel unwell, seek medical advice.

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

No data available

**Information to physician**

Treat symptomatically.

**5. Fire fighting measures**

Flash point/flash point range: No data available

Auto-ignition temperature: No data available

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

**Specific hazards arising from the chemical**

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

Protective equipment and precautions for firefighters:

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

**6. Accidental release measures**

Personal precautions: Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapors. Wear appropriate protective equipment.

Environmental precautions: Discharge into the environment must be avoided.

Methods for clean-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.

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

**7. Handling and storage****Handling**

Advices on safe handling: Do not breathe vapors. Avoid contact with skin and eyes. Wear appropriate protective equipment.

**Storage**

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.

**8. Exposure controls / personal protection****Engineering controls**

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

See also information in chapter 7, section storage.

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**Personal protection equipment (PPE)**

- Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
- Skin protection: Wear suitable protective clothing.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Nitrile rubber.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection: Provide adequate ventilation.
- General hygiene considerations: Do not breathe vapors. 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.

**Environmental exposure controls**

Refer to 6.: Section "Environmental precautions".

**9. Physical and chemical properties****Information on basic physical and chemical properties**

- Appearance: Physical state at 68 °F and 101.3 kPa: liquid  
Color: green
- Odor: odorless
- Odor threshold: No data available
- pH: at 68 °F: 7.0
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: approx. 212 °F
- Flash point/flash point range: No data available
- Evaporation rate: No data available
- Flammability: No data available
- Explosion limits: No data available
- Vapor pressure: No data available
- Vapor density: No data available
- Density: at 68 °F: approx. 1.0 g/mL
- Water solubility: at 68 °F: completely miscible
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Thermal decomposition: No data available
- Solid content: 1 - 2 %
- Water content: 98 - 99 %

**10. Stability and reactivity**

- Reactivity: Refer to subsection "Possibility of hazardous reactions".
- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions: No hazardous reaction when handled and stored according to provisions.
- Conditions to avoid: Protect from frost.
- Incompatible materials: Metals
- Hazardous decomposition products: No decomposition when used properly.
- Thermal decomposition: No data available

## 11. Toxicological information

### Toxicological tests

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.  
Serious 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.

## 12. Ecological information

### Ecotoxicity

Further details: No data available

### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

### Additional ecological information

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

## 13. Disposal considerations

### Product

Recommendation: Dispose of waste according to applicable legislation.

### Package

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

## 14. Transport information

### UN number

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

### UN proper shipping name

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

**Transport hazard class(es)**

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

**Packing group**

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

**Environmental hazards**

Marine pollutant: no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data available

**USA: Department of Transportation (DOT)**

Proper shipping name: Not restricted

**Sea transport (IMDG)**

Proper shipping name: Not restricted

Marine pollutant: no

**Air transport (IATA)**

Proper shipping name: Not restricted

**Further information**

No dangerous good in sense of these transport regulations.

**15. Regulatory information****National regulations - U.S. Federal Regulations**

No data available

**16. Other information**

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

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

Reason of change: Changes in section 1: Material number

Date of first version: 1/20/2010

**Department issuing data sheet**

Contact person: see section 1: Department responsible for information

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.

Most recent product information is available at  
<http://sumdat.net/wigtu57>

