1. Product and company identification

Product identifier
Trade name: pH Buffer 6.00

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.hamilton.ch
Telephone: +41 81 660 62 76
Telefax: +41 81 660 60 70

Dept. responsible for information: Susanne Näf-Rüdiger,
Telephone: +41 81 660 62 76, E-mail SNaef@hamilton.ch

Emergency phone number
GIZ-Nord, Germany, Telephone: +49 (0)551-19240

2. Hazards identification

Emergency overview
Appearance: Form: liquid
Color: colorless
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) and SIMDUT in Canada.

Hazards not otherwise classified
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Aqueous solution of anorganic salts and organic compounds.

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 contaminated clothing. Remove residues with soap and water.
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. 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: Wear suitable protective clothing. Avoid contact with skin and eyes.
Environmental precautions: Do not allow to penetrate into soil, waterbodies or drains.
Methods for clean-up: Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Wash spill area with plenty of water.

7. Handling and storage

Handling
Advices on safe handling: Provide adequate ventilation. Avoid contact with skin and eyes.
Specific use(s) Buffer solution, calibration solution

Storage
Requirements for storerooms and containers: Keep container tightly closed. Store at room temperature.

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.
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.
Glove material: Nitrile rubber or butyl caoutchouc (butyl rubber).
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection:
Provide adequate ventilation.

General hygiene considerations:
Change contaminated clothing.
Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Form: liquid</td>
</tr>
<tr>
<td></td>
<td>Color: colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH value</td>
<td>at 20 °C: 6.0</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>approx. 100 °C</td>
</tr>
<tr>
<td>Flash point/flash point range</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>no data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>no data available</td>
</tr>
<tr>
<td>Density</td>
<td>at 20 °C: approx. 1.0 g/mL</td>
</tr>
<tr>
<td>Water solubility</td>
<td>at 20 °C: completely miscible</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water:</td>
<td>no data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>no data available</td>
</tr>
<tr>
<td>Additional information</td>
<td>no data available</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Reactivity: no data available

Chemical stability: Product is stable under normal storage conditions.

Possibility of hazardous reactions
No hazardous reactions known.

Conditions to avoid: no data available

Incompatible materials: strong acids and alkalis
Hazardous decomposition products:
Fires in the immediate vicinity may cause the development of dangerous vapors.
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.
- 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.

Contaminated packaging
Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.
14. Transport information

USA: Department of Transportation (DOT)
Proper shipping name: Not controlled under DOT

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 - EC member states
Labeling (67/548/EEC or 1999/45/EC)
Code letter and hazard symbol: not applicable

National regulations - Great Britain
Hazchem-Code: -

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: B

Reason of change: General revision
Date of first version: 2/17/2011

Department issuing data sheet
Contact person: see section 1: Dept. 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.