

## SECTION 1. Identification

Product name: Buffer solution pH 4.00  
 Product use: Calibration of pH electrode  
 Supplier: Bante Instruments  
 Address: F3, Building 2, No.2185, Laifang Rd., Shanghai, China  
 Tel: +86 21 6404 1598  
 E-mail: banteinstrument@hotmail.com  
 Emergency telephone number: China: +86 138 1643 6579  
 USA: +1 346 762 7358

## SECTION 2. Hazards Identification

Classification of the substance or mixture: The product (mixture) is classified as not hazardous.  
 Label elements: Not classified as a hazardous chemical.  
 Other hazards: None.

## SECTION 3. Composition / Information on Ingredients

Component	CAS Number	%
Water	7732-18-5	99
Potassium hydrogen phthalate	877-24-7	1

## SECTION 4. First Aid Measures

Eye contact: Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention if pain or redness persist.  
 Skin contact: Wash off with soap and water.  
 Inhalation: Remove to fresh air. Obtain medical attention immediately if breathing difficulty.  
 Ingestion: Wash out mouth with plenty of water. Obtain medical attention immediately if feeling unwell.

## SECTION 5. Firefighting Measures

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
 Special hazards arising from the substance or mixture: None.  
 Fire hazard: Not flammable.  
 Explosion hazard: Product is not explosive.  
 Reactivity: Hazardous reactions will not occur under normal conditions.  
 Advice for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6. Accidental Release Measures

Personal precautions: No special measures required.  
 Environmental precautions: No special environmental precautions required.

## SECTION 7. Handling and Storage

Handling: Avoid contact with eyes. Wash hands and all exposed areas with soap and water before eating and drinking.  
 Storage: Keep out of reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place.

## SECTION 8. Exposure Controls / Personal Protection

Control parameters: Not applicable.  
 Exposure controls: General industrial hygiene practice.  
 Hand protection: Not required.  
 Eye protection: Avoid contact with eyes.  
 Respiratory protection: Not required in normal conditions.

**SECTION 9. Physical and Chemical Properties**

Physical state: Liquid	Boiling point: >100°C / 212°F	Relative density: 1.006 g/cm <sup>3</sup>
Appearance: Colorless	Flash point: No data available	Specific gravity: No data available
Odor: Odorless	Evaporation rate: No data available	Solubility: Soluble in water
Odor threshold: No data available	Flammability: Non flammable	Autoignition Temperature: No data available
pH: 4.0	Vapor pressure: No data available	Decomposition Temperature: No data available
Melting point: No data available	Vapor density: No data available	Viscosity: No data available

**SECTION 10. Stability and Reactivity**

Reactivity hazard:	None.
Chemical stability:	Stable under normal conditions.
Conditions to avoid:	Excess heat and direct sunlight.
Hazardous decomposition products:	None reasonably foreseeable.

**SECTION 11. Toxicological Information**

Acute toxicity:	No data available.
Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Not classified.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
Specific target organ toxicity (single exposure):	Not classified.
Specific target organ toxicity (repeated exposure):	Not classified.
Potential Adverse human health effects and symptoms:	Not classified.

**SECTION 12. Ecological Information**

Persistence/degradability:	Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.
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**SECTION 13. Disposal Considerations**

Dispose of in accordance with local/national regulations.

**SECTION 14. Transport Information**

Land transport:	Not classified as dangerous in the meaning of transport regulations.
Air transport:	Not classified as dangerous in the meaning of transport regulations.
Sea transport:	Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. Regulatory Information**

Safety, health and environmental regulations/legislation specific for the substance or mixture  
National regulations:  
This safety datasheet complies with the requirements of Regulation According to Regulation (EC) No.1272/2008 and GHS system.  
Information about limitation of use: Not required.  
Chemical safety assessment: For this mixture a chemical safety assessment is not required.

**SECTION 16. Other Information**

Legal disclaimer:  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.