

## SECTION 1. Identification

Product name: Buffer solution pH 4.01  
 Product use: Calibration solution of pH electrode  
 Supplier: Bante Instruments  
 Address: F3, Building 2, No.2185, Laifang Rd., Shanghai, China  
 Emergency phone: +86 138 1643 6579

## 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.  
 Methods and materials for containment and cleaning up: Keep in suitable, closed containers for disposal.

## SECTION 7. Handling and Storage

Handling: Avoid contact with eyes. Avoid inhalation of vapour or mist. 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. Protect against physical damage.

## SECTION 8. Exposure Controls and 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:	No data available.
Serious eye damage/irritation:	No data available.
Respiratory or skin sensitization:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
Potential Adverse human health effects and symptoms:	No data available.

**SECTION 12. Ecological Information**

Toxicity:	No data available.
Persistence & degradability:	No data available.
Bioaccumulative potential:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	No data available.

**SECTION 13. Disposal Considerations**

Dispose of in accordance with local/national regulations.

**SECTION 14. Transport Information**

Land transport:	Not dangerous goods.
Air transport:	Not dangerous goods.
Sea transport:	Not dangerous goods.

**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 Globally Harmonised 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**

Disclaimer: The information contained herein is accurate to the best of our knowledge, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Bante Instruments makes no warranty of any kind, expressed, or implied, concerning the safe use of this material in your process or in combination with other substances. Bante Instruments shall not be held liable for any damage resulting from handling or from contact with the above product.