PULSE INSTRUMENTS

SDS – SAFETY DATA SHEET

1. Identification

Product identifier: pH04 Buffer Solution

Synonyms: pH04 Calibration Solution

Chemical Formula: N/A (Inorganic Salt)

Recommended and Restriction Use of the Chemical:
pH04 Buffer Solution is a calibration solution for in-line and portable pH sensors.

Supplier **:** Pulse Instruments
943 Flynn Road, Camarillo, CA 93012
Phone: (800) 462 – 1926

Emergency Phone Number: 800-424-9300 (CHEMTREC 24-Hr Emergency within USA and Canada)

2. Hazard(s) Identification

Hazard Classification of the Chemical: Non-Flammable, Non-Toxic, Non-Corrosive

Signal Word: N/A

Hazard Statement(s): N/A

Pictogram: N/A

Precautionary Statements:

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Description of Any Hazards Not Otherwise Classified: Not applicable

3. Composition / Information on Ingredients

Common name and synonyms: pH04 Calibration Solution

Component	CAS Number	Percentage	Hazardous
Benzethonium Chloride	121-54-0	<0.01%	No
Potassium Hydrogen Phthalate	877-24-7	<1.0%	No
Water	7732-18-5	~99%	No

4. First-Aid Measures

Ingestion:
Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:
Wash thoroughly with copious amount of water. Get medical attention, if needed.

Eye Contact:

Remove contact lenses. Flush eyes thoroughly with water for 15 minutes. If irritation persists, get medical attention.

5. Fire-Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Extinguishing Media: N/A

Toxic Gases Produced: None.

Special Information: N/A

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate personal protective equipment recommended in Section 8 (Exposure Controls/ Personal Protection) of this SDS.

Environmental Precautions, Methods, and Materials for Containment and Cleaning Up:

Cover spill with absorbing paper/ cloth and put aside in a container. Flush spill area with water.

7. Handling and Storage

Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities:

Store and handle in accordance with all current regulations and standards. Keep in a properly labelled and tightly closed container. Store in a cool, dry, well-ventilated area. Keep containers away from direct sunlight and heat.

8. Exposure Controls / Personal Protection

Airborne Exposure Limits: N/A (Non Hazardous Substance)

Ventilation System: Not required.

Personal Protective Equipment (PPE)

Eye Protection:

Wear chemical safety googles or face shield where splashing of solution is possible. Maintain eye wash and safety shower in the work area.

Respiratory Protection: Not required.

Skin and Body Protection: Not required.

9. Physical and Chemical Properties

Appearance: Pink-orange liquid

Upper / Lower Flammability or Explosive Limits: No data available

Odor: Odorless

Vapor Pressure: No data available

Odor Threshold: No data available

Vapor Density: 0.7

pH: 4.00

Relative Density: No data available

Melting Point: No data available

Freezing Point: 32^{o}F

Solubility: Miscible

Boiling Point / Boiling Range: 212^{o}F

Flash Point: No data available

Evaporation Rate: 1.0

Flammability: No data available

Partition Coefficient: n-octanol / water: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: >212 ^{o}F

Viscosity: No data available

Specific Gravity: 1.005

10. Stability and Reactivity

Reactivity: Same as water.

Chemical Stability: Stable under normal temperatures and storage conditions.

Possibility of Hazardous Reactions and Conditions to Avoid:

Avoid heat, freezing temperature, sunlight, ultraviolet, and contamination with foreign and/or incompatible materials.

Incompatible Materials:

Water, strong acids, strong alkalis, reducing agents, combustible materials, most metals, and organic materials.

Hazardous Decomposition Products: Will not occur.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Routes of Entry: skin, eyes, inhalation, ingestion.

Potential Health Effects: This material does not produce mutagenic effects.

Carcinogenicity Information: No data available.

Acute Toxicity:

Result	Compound	Dose	Exposure
LD_{50} Oral	Benzethonium Chloride	420 mg/kg	_

12. Ecological Information

Ecotoxicity: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal Considerations

This material is not an EPA listed waste. Disposal of the waste must be in accordance with all applicable Federal, State/Provincial, and Local regulations.

14. Transport Information

DOT:

UN Proper Shipping Name: N/A

UN Number: N/A

Hazard Class/ Division: N/A (Non Hazardous Substance)

15. Regulatory Information

TSCA Inventory

Component : N/A

SARA EHS (302) : N/A

CERCLA RQ : N/A

OSHA FLOOR LIST : N/A

SARA 313 : N/A

16. Other Information

Prepared by: Pulse Instruments – Chemistry Department

Revision Date: May 20, 2015

Replaces Revision: May 1, 2012

HMIS: (Scale 0-4)

Health Rating: 0 **Flammability Rating:** 0 **Reactivity Rating:** 0

NFPA – Hazard Identification Ratings: (Scale 0-4)

Health Rating: 0 **Flammability Rating:** 0 **Reactivity Rating:** 0

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information presented herein is based upon technical information available to Pulse Instruments products at this time and believed to be reliable. While believed to be accurate, this information is not intended to be all inclusive. It is also subject to revision as additional knowledge and experience is gained.

OSHA Standard 29 CFR 1910.1200 requires that information regarding hazards of the chemicals be provided to employees by means of a hazard communication program, including but not limited to chemical labeling, safety data sheets, training, and access to written records. It is your legal duty to make all information in this Safety Data Sheet available to your employees.

End of Safety Data Sheet