

SAFETY DATA SHEET

Revision Date: 01-October-2023

acc. To OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulation

Revision 3

1. IDENTIFICATION

Product Identifier

Product NamepH 4.00 Buffer, RedProduct Number(s)Al1102Pure Substance/mixtureMixture

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

Recommended UseUse as laboratory reagentUses advised againstNo information available

Supplier: Apera Instruments, LLC Address: 6656 Busch Blvd, Columbus, Ohio 43229, U.S.A Tel: 1-614-285-3080

E-mail address	info@aperainst.com
Made In	USA
Emergency Telephone	1-614-285-3080
	9:00 am – 6:00 pm EST

2. HAZARDS IDENTIFICATION

Classification

Classification - Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

Symbol(s) Not dangerous goods.

Label Elements

Emergency Overview

The product contains no substances which at their given concentration, are considered hazardous to health.

Appearance Red

Physical State Liquid

Odor None

EUH210 - Safety data sheet available upon request.

Precautionary Statements

P202 - Do not handle until all safety information has been read and understood.

Hazards not otherwise classified (HNOC)

No information available

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Chemical Formula	EC-No.	CAS-No	Weight %	Trade Secret
Water	-	-	7732-18-5	90-100 %	*
Potassium Acid Phthalate	-	212-889-4	877-24-7	0-10 %	*
Cetylpyridinium Chloride	C21 H38 NCI	204-593-9	123-03-5	0-10 %	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures	
General Advice	Use first aid treatment according to the nature of the injury. For further assistance, contact your local Poison Control Center. Show this safety data sheet to the doctor in attendance.
Eye Contact	In case of eye contact, remove contact lens and rinse thoroughly with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothing and shoes. If skin reactions occur, contact a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, obtain medical attention.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do not include vomiting. Call a physician or Poison Control Center immediately.
Production of First-Aiders	Use personal protective equipment. See Section 8 for more detail. Do not use mouth to mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical devices.
Most important symptoms a	and effects, both acute and delayed

Most important symptoms/effects No information available

Indication of any immediate medical attention and special treatment needed Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available

<u>Specific Hazards Arising from the Chemical</u> Thermal decomposition can lead to release of irritating gases and vapors.

<u>Protective Equipment and Precautions for Firefighters</u> As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES			
Personal Precautions, Protective Equipment and Emergency Procedures Personal Precautions Use personal protective equipment. Refer to Section 8. Evacuate personnel to safe areas.			
Environmental Precautions	Beware of vapors accumulating to form explosives concentrations. Vapors can accumulate in low areas.		
Method and Material for Containm Methods for Containment	<u>nent and Cleaning Up</u> Prevent further leakage or spillage if safe to do so.		
Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.		

7. HANDLING AND STORAGE

Precautions for Safe Handling Handling	To avoid risks to human health and the environment, comply with the instructions for use. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray Ensure adequate ventilation, especially in confined areas.
Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
Conditions for Safe Storage, Inclu	
Storage	Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from direct sunlight.
Incompatible Products	No information available.
Specific end use(s)	
Specific use	Laboratory reagent
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.
8. EXPOSURE CONTROLS/PERS	SONAL PROTECTION
<u>Control parameters</u> Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
Appropriate Engineering Controls	
Engineering Measures	Showers Eyewash stations Ventilation systems
Individual protection measures, suc Eye/face Protection	<u>sh as personal protective equipment</u> Wear chemical splash goggles. If splashes are likely to occur, wear: Face-shield.
Skin and Body Protection	Wear protection gloves/clothing
Respiratory Protection	None required under normal usage. In case of inadequate ventilation wear respiratory protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties.

Physical State	Liquid	
Appearance	Red	
Odor	None	
Odor Threshold	No information available	
pH Range	3.51-5.51	
<u>Property</u>	<u>Values</u>	Remarks * Method
Melting point/freezing point	No information available	
Boiling Point/Range	~ 100 °C / 212 °F	
Flash Point (High in °C)	No information available	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor Density	No information available	
Specific Gravity	No information available	

Water Solubility Solubility in other solvents Partition coefficient Autoignition Temperature Decomposition Temperature No information available Kinematic Viscosity Dynamic Viscosity **Explosive Properties Oxidizing Properties**

Other Information

Softening Point Molecular Weight VOC Content (%) Density **Bulk Density**

soluble No information available No information available

No information available No information available No information available No information available

No information available No information available No information available No information available No information available

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical Stability

Stable under normal conditions

Possibility of Hazardous Reactions None under normal processing

Conditions to Avoid

Extremes of temperature and direct sunlight

Incompatible Materials

No information available

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	No information available
Eye Contact	No information available
Skin Contact	No information available
Ingestion	No information available

Componer	nt	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	7732-18-5	>90 mL/kg (Rat)	-	-
Cetylpyridinium Chloride	123-03-5	LD50 200mg/kg (rat)	-	LC50/4 H 0.05 mg/L (ATE)

Information on Toxicological Effects

Symptoms

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available
Mutagenic Effects	No information available
Carcinogenicity	No information available
Reproductive Effects	No information available
STOT – single exposure	No information available
STOT – repeated exposure	No information available
Aspiration hazard	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

This material is not expected to be harmful to aquatic life.

Persistence and Degradability No information available

Bioaccumulation/Accumulation

No information available

<u>Mobility</u>

No information available

Results of PBT and vPvB assessment

No information available

Other adverse effects

No information available

Endocrine Disruptor Information

No information available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste Disposal Methods	Disposal should be in accordance with applicable regional, national and local laws and regulations.
	Do not discharge to sewer.
Contaminated Packaging	Improper disposal or reuse of this container may be dangerous and illegal.

14. TRANSPORT INFORMATION

ADR Not regulated
ADN Not regulated

15. REGULATORY INFORMATION

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

International Inventories

USINV	Component listed
CANINV	Component listed
EINECS/ELINCS	Component listed
IECSC	Component listed
AICS	Component listed

USINV/TSCA – United States Toxic Substances Control Act Section 8(b) Inventory CANINV/DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substance List EINECS/ELINCS – European Inventory of Existing Commercial Chemical Substance / EU List of Notified Chemical Substances IECSC – Chinese Inventory of Existing Chemical Substances AICS – Australian Inventory of Chemical Substances

U.S. Federal Regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazardous Communication Standard, 29 CFR 1910.1200.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

No
No
No
No
No

Clean Water Act Not applicable

<u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

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This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

State Right-to-Know		
Massachusetts Right-to-Know Act – Substance List	Not regulated	
New Jersey Worker and Community Right-to-Know Act	Potassium hydrogen phthalate	CAS 877-24-7
Pennsylvania Right-to-Know Act – Hazardous Substance	Potassium hydrogen phthalate	CAS 877-24-7
Rhode Island Right-to-Know Act	Not regulated	

U.S. EPA Label Information

No information available

16. OTHER INFORMATION

Revision Date: 1-October-2023

Disclaimer:

IMPORTANT: The information contained in this SDS is correct to the best of our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties of any kind as to the accuracy or completeness of the information contained herein or the merchantability or fitness of the product or this information for a particular purpose. It is the responsibility of each individual buyer/user to determine the suitability of this information and the product for its intended purposes. Product sales are subject to Apera Instruments standard terms and conditions of sale. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions, or is altered in any way. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable government requirements. Since conditions of use of the product are not under direct control of Apera Instruments, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Apera Instruments will not be liable for any injuries or damages resulting from handling, use, misuse or contact with the product.