

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Identifier**

Product Name Traceable® Buffer Solution pH 4.00, Red  
Product Number(s) 4880, 4887, 4890, 4956, 4962, 4966  
Pure Substance/mixture Mixture

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

Recommended Use Calibration and storage of pH meters/probes  
Uses advised against Any use which involves bodily contact or ingestion

**Manufacture/Supplier**

Traceable® Products  
12554 Old Galveston Rd. Suite B230  
Webster, TX 77598  
E-mail address sales@control3.com  
Made In USA

**Product Information** 281-482-1714

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture according to Regulation (EC) No. 1272/2008 [CLP]**

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

**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** Light 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****Description of the mixture:**

Aqueous solution of pH buffer

Component	Chemical Formula	EC-No.	CAS-No	Classification according Regulation (EC) No. 1272 [CLP]	Weight %	Trade Secret
Water	-	-	7732-18-5	-	97-100 %	*
Potassium Acid Phthalate	-	212-889-4	877-24-7	-	0-3 %	*
Cetylpyridinium Chloride	C21 H38 NCl	204-593-9	123-03-5	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3, H335	0-3 %	*
Methyl Red Solution 0.1%	-	-	845-10-3		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 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

##### Specific Hazards Arising from the Chemical

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

##### Protective Equipment and Precautions for Firefighters

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	Avoid discharge into drains, water courses or onto the ground.

##### Method and Material for Containment and Cleaning Up

Methods for Containment	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, Including any Incompatibilities

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	Calibration and storage of pH meters/probes.
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

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, such as personal protective equipment

Eye/face Protection 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 Light Red  
Odor None  
Odor Threshold No information available  
pH Range 3.51-5.51

<u>Property</u>	<u>Values</u>	<u>Remarks * Method</u>
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	soluble	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition Temperature		
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

### Other Information

Softening Point No information available  
Molecular Weight No information available  
VOC Content (%) No information available  
Density No information available  
Bulk Density 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

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	>90 mL/kg (Rat)	-	-
Cetylpyridinium Chloride	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

**Mobility**

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**

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

**15. REGULATORY INFORMATION****European Union Regulations**

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.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

Not applicable

**CERCLA**

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**

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: 06-August -2024

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313
Immediate	Yes	No	No	No	
Delayed	No	No	XXX	XXX	
HMIS Hazard Ratings:	Health 1	Fire 0	Instability 0	Other B (Goggles, gloves)	
Hazard Ratings:	Least: 0	Slight: 1	Moderate: 2	High: 3	Extreme: 4

This SDS is in accordance to Regulation (EC) No. 1907/2006.

**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 purpose. It is the responsibility of each individual buyer/user to determine the suitability of this information and the product for its intended purposes. 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 Traceable Products, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Traceable Products will not be liable for any injuries or damages resulting from handling, use, misuse or contact with the product.