## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

| | |
|---|---|
| Product Name | pH Electrode Storage |
| Product Number(s) | 00653-04, 05942-15 |
| Pure Substance/mixture | Mixture |

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

| | |
|---|---|
| Recommended Use | Use as laboratory reagent |
| Uses advised against | No information available |

**Manufacture/Supplier**

Cole-Parmer™
North America
625 East Bunker Court
Vernon Hills, IL
60061 USA
Tel: 1-800-323-4340

| | |
|---|---|
| E-mail address | info@coleparmer.com |
| Made In | USA |

**Emergency Telephone**

888-358-4717
8:00 am – 6:00 pm CST

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

**Label Elements**

**Emergency Overview**

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

**Appearance** Clear **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 | EC- No. | CAS-No | Weight % | Trade Secret |
|---|---|---|---|---|
| Water | 231-791-2 | 7732-18-5 | 70 - 80 % | * |
| Potassium Chloride | 231-211-8 | 7447-40-7 | 20 - 30 % | * |
| Potassium Dihydrogen Phosphate | 231-913-4 | 7778-77-0 | 0 – 10% | * |
| Disodium Hydrogen Phosphate | 231-448-7 | 7558-79-4 | 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. Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance. |
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. Obtain medical attention. |
| Skin Contact | Wash off immediately with soap and plenty of water for at least 15 minutes 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.

Explosion Data
Sensitivity to Mechanical Impact - None
Sensitivity to Static Discharge – None

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 | Beware of vapors accumulating to form explosives concentrations. Vapors can accumulate in low areas. |

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.<br>Wear personal protective equipment.<br>Avoid breathing dust/fume/gas/mist/vapors/spray<br>Ensure adequate ventilation, especially in confined areas. |

Conditions for Safe Storage, Including any Incompatibilities

| | |
|---|---|
| Storage | Keep container tightly closed in a dry and well-ventilated place.<br>Store at room temperature in the original container.<br>Keep away from direct sunlight. |
| Incompatible Products | No information available. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure Guidelines

Appropriate Engineering Controls

| | |
|---|---|
| Engineering Measures | Showers<br>Eyewash stations<br>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 | Clear |
| Odor | None |
| Odor Threshold | No information available |
| pH Range | 6.3 – 6.9 |

| **Property** | **Values** | **Remarks * Method** |
|---|---|---|
| Melting point/freezing point | No information available | |
| Boiling Point/Range | > 100 °C / 212 °F | |
| Flash Point (High in °C) | N/A | |
| 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
**Unknown Acute Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity
**The following values are calculated based on chapter 3/1 of the GHS document**
**ATEmix (oral)** 11,737 mg/kg

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Water | > 90 ml/kg (Rat) | - | - |
| Potassium Chloride | = 2600 mg/kg (Rat) | - | - |
| Potassium Dihydrogen Phosphate | - | 4640 mg/kg (Rabbit) | - |
| Disodium Hydrogen Phosphate | 17 g/kg (Rat) | - | - |

**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**
2% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

| Component | Freshwater Algae | Freshwater Fish | Water Flea |
|---|---|---|---|
| Potassium Chloride | 2500: 72 h Desmodesmus subspicatus mg/L EC50 | 750 – 1020: 96h Pimephales Promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static | 83: 48 h Daphnia magna mg/L EC50 Static 825: 48 h Daphnia |

**Persistence and Degradability**
No information available

**Bioaccumulation/Accumulation**
No information available

**Mobility**
No information available

**Other adverse effects**
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. |
| **Contaminated Packaging** | Improper disposal or reuse of this container may be dangerous and illegal. |

## 14. TRANSPORT INFORMATION

| | |
|---|---|
| **DOT** | Not regulated |
| **ICAO** | Not regulated |
| **IATA** | Not regulated |
| **IMDG/IMO** | Not regulated |
| **RID** | Not regulated |
| **ADR** | Not regulated |
| **ICAO** | Not regulated |

## 15. REGULATORY INFORMATION

**International Inventories**

| | |
|---|---|
| USINV | Complies |
| CANINV | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Does not comply |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

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
ENCS – Japanese Existing and New Chemical Substances
IECSC – Chinese Inventory of Existing Chemical Substances
KECL – Korean Existing and Evaluated Chemical Substances
PICCS – Philippines Inventory of Chemicals and Chemical Substances
AICS – Australian Inventory of Chemical Substances

**Chemical Safety Assessment**
A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required.

**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 a chemical 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
This material, as supplied, does contains a component regulated as a hazardous substance under the Clean Water Act (Section 112(r) (40 CFR 68.130).

CERCLA
This material, as supplied, does not contain a component regulated as hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302.4) 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 | Not regulated |
| Pennsylvania Right-to-Know Act – Hazardous Substance | Not regulated |
| Rhode Island Right-to-Know Act | Not regulated |

**U.S. EPA Label Information**
No information available

## 16. OTHER INFORMATION

Revision Date: 23-April -2018

Disclaimer:
IMPORTANT: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.