

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

Product Name pH Electrode Cleaning Solution
Product Number(s) 00653-06, 35655-06
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

Manufacturer/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)

| | |
|-----------------------------------|------------|
| Skin Corrosion/irritation | Category 1 |
| Serious Eye Damage/Eye Irritation | Category 1 |
| Respiratory Sensitization | Category 1 |

Label Elements

Emergency Overview

Danger

Hazard Statements
 Causes severe skin burns and eye damage
 May cause allergy or asthma symptoms or breathing difficulties if inhaled



Appearance Clear / slight yellow **Physical State** Liquid **Odor** Slight

Safety data sheet available on request

Precautionary Statements

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

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 In case of inadequate ventilation wear respiratory protection

Response

Immediately call a POISON CENTER or doctor/physician
 Specific treatment (see supplemental instructions on the administration of antidotes on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No information available

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight % | Trade Secret |
|-----------|-----------|----------|--------------|
| Pepsin | 9001-75-6 | 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 induce vomiting. Call a physician or Poison Control Center immediately.
- Protection 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 device.

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

No information available

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 explosive concentrations. Vapors can accumulate in low areas.

Methods 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/vapours/spray
 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
 Store at room temperature in the original container
 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
 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 protective 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 / slight yellow
Odor Slight

Odor Threshold No information available
pH Range -0.3 - 2.7

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-------------------------------------|--------------------------|-------------------------|
| Melting point/freezing point | No information available | |
| Boiling Point/Range | > 120 °C / 248 °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

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

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .
 ATEmix (inhalation-dust/mist) 125.2 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

1.6% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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**

| | |
|---------------------------------|------------------------------------|
| UN-No | UN1789 |
| Proper Shipping Name | HYDROCHLORIC ACID |
| Hazard Class | 8 |
| Packing Group | II |
| Special Provisions | A3, A6, B3, B15, IB2, N41, T8, TP2 |
| Shipping Description | UN1789, Hydrochloric acid, 8, II |
| Emergency Response Guide Number | 157 |

TDG

| | |
|----------------------|----------------------------------|
| UN-No | UN1789 |
| Proper Shipping Name | HYDROCHLORIC ACID |
| Hazard Class | 8 |
| Packing Group | II |
| Description | UN1789, Hydrochloric acid, 8, II |

MEX

| | |
|----------------------|----------------------------------|
| UN-No | UN1789 |
| Proper Shipping Name | HYDROCHLORIC ACID |
| Hazard Class | 8 |
| Packing Group | II |
| Description | UN1789, Hydrochloric acid, 8, II |

ICAO

| | |
|----------------------|----------------------------------|
| UN-No | UN1789 |
| Proper Shipping Name | HYDROCHLORIC ACID |
| Hazard Class | 8 |
| Packing Group | II |
| Special Provisions | A3 |
| Description | UN1789, Hydrochloric acid, 8, II |

IATA

| | |
|----------------------|----------------------------------|
| UN-No | UN1789 |
| Proper Shipping Name | HYDROCHLORIC ACID |
| Hazard Class | 8 |
| Packing Group | II |
| ERG Code | 8L |
| Special Provisions | A3, A803 |
| Description | UN1789, Hydrochloric acid, 8, II |

IMDG/IMO

| | |
|----------------------|----------------------------------|
| UN-No | UN1789 |
| Proper Shipping Name | HYDROCHLORIC ACID |
| Hazard Class | 8 |
| Packing Group | II |
| EmS No. | F-A, S-B |
| Description | UN1789, Hydrochloric acid, 8, II |

RID

| | |
|----------------------|----------------------------------|
| UN-No | UN1789 |
| Proper Shipping Name | HYDROCHLORIC ACID |
| Hazard Class | 8 |
| Packing Group | II |
| Classification Code | C1 |
| Description | UN1789, Hydrochloric acid, 8, II |
| ADR/RID-Labels | 8 |

ADR

UN-No UN1789
Proper Shipping Name HYDROCHLORIC ACID
Hazard Class 8
Packing Group II
Classification Code C1
Tunnel restriction code (E)
Special Provisions 520
Description UN1789, Hydrochloric acid, 8, II
ADR/RID-Labels 8

ADN

Proper Shipping Name HYDROCHLORIC ACID
Hazard Class 8
Packing Group II
Classification Code C1
Special Provisions 520
Description UN1789, Hydrochloric acid, 8, II
Hazard Labels 8
Limited Quantity 1 L

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 Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/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

U.S. Federal Regulations

SARA 313

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

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

U.S. EPA Label Information

No information available

16. OTHER INFORMATION

| | |
|----------------------------|---|
| Prepared By | Thermo Fisher Scientific© Water and Lab Products 22 Alpha Road Chelmsford, MA 01824, USA 1-978-232-6000 |
| Prepared For | Cole-Parmer™ |
| Issue Date | No information available |
| Revision Date | 18-May-2015 |
| Expiration Date | SDS is valid 3 years from the revision date. Contact info@coleparmer.com for the latest revision. |
| Reason for revision | Update to CLP Format |

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet