

Revision Date: March 1, 2025

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision 2

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

Product Identifier

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

Manufacture/Supplier

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 Made In USA

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2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Met. Corr.1 H290 May be corrosive to metals.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Label Elements

Emergency Overview

Signal Word: Danger

Hazard Statements

H290 May be corrosive to metals.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.



GHS08

GHS05

Appearance Clear to light yellow

Physical State Liquid

Odor Slight

Safety data sheet available upon request.

Precautionary Statements

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

Prevention

P234 Keep only in original container.
 P261 Avoid breathing mist/vapors/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves and eye protection.
 P285 In case of inadequate ventilation wear respiratory protection.
 P302+P352 If on skin: Wash with plenty of water.
 P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
 P363 Wash contaminated clothing before reuse.
 P390 Absorb spillage to prevent material damage.
 P406 Store in corrosive resistant container with a resistant inner liner.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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
Water	7732-18-5	>99 %	*
Pepsin			
 Resp. Sens. 1, H334	9001-75-6	<1 %	*
 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335			
Hydrochloric Acid			
 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	7647-01-0	<1 %	*
 Acute Tox. 4, H302; STOT SE 3, H335			
Methylparaben	99-76-3	<1 %	*

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

4. FIRST AID MEASURES**First Aid Measures**

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Asthma attacks

Breathing difficulty

Coughing

Allergic reactions

Gastric or intestinal disorders when ingested.

Danger: Danger of impaired breathing.

Indication of any immediate medical attention and special treatment needed:

Contains Pepsin A. May produce an allergic reaction. Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible. Treat skin and mucous membrane with antihistamine and corticoid preparations.

In cases of irritation to the lungs, initial treatment with corticoid steroid inhalants. If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

Later observation for pneumonia and pulmonary edema.

If medical advice is needed, have product container or label at hand.

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 MEASURESSuitable 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 MEASURESPersonal 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 STORAGEPrecautions 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.

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.

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 relevant information available.

Chemical Stability

Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of Hazardous Reactions

Reacts with alkali (lyes).

Corrosive action on metals.

Reacts with strong oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

Conditions to Avoid

Extremes of temperature and direct sunlight

Incompatible Materials

Alkalis

Hazardous Decomposition Products

Possible in traces.

Under fire conditions only:

Hydrogen chloride (HCl)

Carbon monoxide and carbon dioxide

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 7732-18-5	LD50 > 90 ml/kg (Rat)	-	-
Hydrochloric Acid 7647-01-0	LD50 238-277 mg/kg (Rat)	LD50 > 5010 mg/kg (Rabbit)	LC50 = 1.68 mg/L (Rat) 1 hour
Methylparaben 99-76-3	LD50 = 2100 mg/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 Based on available data, the classification criteria are not met.
Mutagenic Effects Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive Effects Based on available data, the classification criteria are not met.
STOT – single exposure Based on available data, the classification criteria are not met.
STOT – repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

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

0.5% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Water Flea
Hydrochloric Acid 7647-01-0	-	LC50: = 282 mg/L, 96h static (Gambusia affinis)	-

Persistence and Degradability

No information available

Bioaccumulation/Accumulation

No information available

Mobility

No information available

Other adverse effects

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

Component	CAWAST
Hydrochloric Acid 7647-01-0	Toxic Corrosive Reactive

14. TRANSPORT INFORMATION

DOT - Not Regulated
 ICAO - Not Regulated
 IATA - Not Regulated
 IMDG/IMO - Not Regulated

15. REGULATORY INFORMATION

International Inventories

USINV/TSCA	All ingredients are listed.
CANINV	All ingredients are listed.
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
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

U.S. Federal Regulations

SARA

Section 302 (extremely hazardous substances):

None of the ingredients are listed.

Section 355 (extremely hazardous substances):

7647-01-0 hydrochloric acid

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

CWA (Clean Water Act)

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substance
Hydrochloric Acid 7647-01-0	5000 lbs	-	-	X

CERCLA

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

Component	Hazardous Substances RQs	CERCLA EHS RQs	RQ
Hydrochloric Acid 7647-01-0	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ

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	Hydrochloric Acid	7647-01-0
New Jersey Worker and Community Right-to-Know Act	Hydrochloric Acid	7647-01-0

Pennsylvania Right-to-Know Act – Hazardous Substance	Pepsin A	9001-75-6
	Hydrochloric Acid	7647-01-0
Rhode Island Right-to-Know Act	Pepsin A	9001-75-6
	Hydrochloric Acid	7647-01-0

U.S. EPA Label Information

No information available

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision: March 1, 2025**Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health Administration

Met. Corr.1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3