

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name: Cleaning Solution
Application: Laboratory Chemicals
Supplier Name: Apera Instruments, LLC
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SECTION 2. HAZARD IDENTIFICATION

Causes severe skin burns and eye damage.

2.1 Classification of the substance or mixture

NFPA Ratings (Scale 0-4):

HEALTH=3

FLAMMABILITY=0

REACTIVITY=1

SPECIAL=ACID

HMIS Ratings (Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe):

HEALTH=3

FLAMMABILITY=0

REACTIVITY=1

PROT. EQUIPMENT=C (Safety Glasses, Gloves, Protective apron)

Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP):

Skin corrosion/irritation, Cat. 1A, H314, Dispose of contents/container according to local and national regulations.

Contains Pepsin A. May produce an allergic reaction.

Classification according to EU Directives 67/548/EEC or 1999/45/EC: C; R34

Additional information: For the full text of the phrases mentioned in this Section, see Section 16.

2.2 Label elements

Signal Word: Danger

Hazard Statement:

H314: Causes severe skin burns and eye damage.

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician.

Additional advice: Dispose of contents/container according to local and national regulations. Contains Pepsin A. May produce an allergic reaction.

GHS product identifier: Hydrochloric acid, Pepsin A, CAS-No. 9001-75-6

2.3 Other hazards: No information available

SECTION 3. COMPOSITION AND COMPONENT INFORMATION

Chemical characterization: Solution

Components		GHS Classification	CAS	REACH No.
Deionised water	95% -99%			
Hydrochloric acid	0.1% - 0.5%	Skin Corr. 1B H314, STOT SE 3 H335 [Skin Corr. 1B H314: C ≥ 25 % ; Skin Irrit. 2 H315: 10 % ≤ C < 25 % ; Eye Irrit. 2 H319: 10 % ≤ C < 25 % ; STOT SE 3 H335: C ≥ 10 %]		
Pepsin A		Eye Irrit. 2 H319, STOT SE 3 H335, Skin Irrit. 2 H315, Resp. Sens. 1 H334	9001-75-6	

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

Inhalation: Move to fresh air in case of accidental inhalation of vapours or decomposition products. Consult a physician for severe cases.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

Ingestion: Rinse mouth. Consult a physician for severe cases.

4.2 Most important symptoms and effects, both acute and delayed:

If you feel unwell, seek medical advice (show the label where possible).

4.3 Indication of any immediate medical attention and special treatment needed: None Known.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Use dry chemical, CO₂, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons: None.

5.2 Special hazards arising from the substance or mixture:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Standard procedure for chemical fires, In the event of fire, wear self contained breathing apparatus. Wear protective suit.

Special methods: Water mist may be used to cool closed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel:

Ensure adequate ventilation. Use personal protective equipment. Sweep up to prevent slipping hazard. Avoid contact with skin and eyes.

Advice for emergency responders: Handle in accordance with good industrial hygiene and safety practice.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

6.4 Reference to other sections

See chapter 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Wear personal protective equipment. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities: Store in original container.

7.3 Specific end use(s): No information available.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Exposure limit(s): No data is available on the product itself.

8.2 Exposure controls

Occupational exposure controls: Avoid contact with skin, eyes and clothing.

Personal protection equipment Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye Protection: Safety glasses with side-shields conforming to EN 166.

Skin and body protection: Long sleeved clothing.

Thermal hazards: No special measures required.

Environmental exposure controls: Prevent product from entering surface water or sewage.

SECTION 9. PHYSICAL/CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	None.
Odour Threshold	No information available.
pH:	1
Melting point/range:	No information available.
Boiling point/range:	No information available.
Flash point:	No information available.
Evaporation Rate:	No information available.
Flammability:	No information available.
Explosion limits:	No information available.
Vapour pressure:	No information available.
Vapor density:	No information available.
Relative density:	No information available.
Water Solubility:	Completely miscible.
Partition coefficient (noctanol/water):	No information available.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Combustion/explosion hazards:	Not hazardous.
Oxidizing properties:	None

9.2 Other information. None

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	No information available.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No information available.
Conditions to avoid:	Not required.
Incompatible materials:	None.
Hazardous decomposition products:	None under normal use.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: No data is available on the product itself.

Skin corrosion/irritation: Corrosive.

Serious eye damage/eye irritation: Corrosive.

Respiratory / Skin Sensitisation: May cause sensitization of susceptible persons by skin contact.

Carcinogenicity: No data available.

Germ cell mutagenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity (single exposure): No data available.

Aspiration hazard: No data available.

Human experience: No data available.

Information on likely routes of exposure: Dermal

Symptoms related to the physical, chemical and toxicological characteristics: May cause eye/skin irritation.

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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity: No data available on the product itself. May change pH of waters.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment:

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

Other adverse effects: No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Dispose of as unused product.

SECTION 14. TRANSPORTATION INFORMATION

ADR/RID:

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC,
N.O.S. (Hydrochloric acid)

UN No 3265.

Class 8.

Packing group III.

ADR/RID-Labels 8. Classification code C3.

Risk No. 80.

Limited quantity 5 L.

Tunnel code E

IMO

Proper shipping name Corrosive liquid, acidic, organic, n.o.s. (Hydrochloric acid)

UN No 3265.

Class 8.

Packing group III.

ADR/RID-Labels 8.

Limited quantity 5 L.

EmS F-A, S-B.

Marine Pollutant no

ICAO

Proper shipping name Corrosive liquid, acidic, organic, n.o.s. (Hydrochloric acid)

UN No 3265.

Class 8.

Packing group III.

Packing instruction (passenger aircraft): 852 (5 L).

Packing instruction (LQ): Y841 (1 L).

Packing instruction (cargo aircraft): 856 (60 L).

Inland navigation AND

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC,
N.O.S. (Hydrochloric acid) UN No 3265.

Class 8.

Packing group III.

ADN danger 8+ (N1, N2, N3, CMR, F oder S).

Further Information: None

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

NFPA Ratings (Scale 0-4):

HEALTH=3

FLAMMABILITY=0

REACTIVITY=1

SPECIAL=ACID

HMIS Ratings (Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe):

HEALTH=3

FLAMMABILITY=0

REACTIVITY=1

PROT. EQUIPMENT=C (Safety Glasses, Gloves, Protective apron)

The product is classified and labeled according to Regulation (EC) No. 1272/2008 (GHS/CLP).

15.2 Chemical safety assessment: Not required.

SECTION 16. OTHER INFORMATION

Key or legend to abbreviations and acronyms: None

Key literature references and sources for data: Information taken from reference works and the literature.

Classification procedure: Calculation method.

Full text of phrases referred to under sections 2 and 3:

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

Disclaimer

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. It is not to be considered a warranty or quality specification.