

Safety Data Sheet

According to Regulation (EC) No. 1907/2006
OSHA Regulation 29 CFR 1910.1200
Canadian Regulation SOR/88-66

Revision Date: 2010-12-01
Reason for Revision: Regulation (EC) No. 1272/2008 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: Pepsin Powder

Application: For cleaning pH and ORP electrodes for applications with protein

Company Information (USA):

Hanna Instruments, Inc.
584 Park East Dr, Woonsocket, Rhode Island, USA 02895

Technical Service Contact Information:

1-800-426-6287 (8:30AM - 5:00PM ET)
+1-401-766-4260 (8:30AM - 5:00PM ET)

USA Emergency Contact Information:

1-800-424-9300 (Chemtrec 24Hr. Emergency)

International Emergency Contact Information:

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

E-mail Address:

tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.

According to Regulation (EC) No. 1272/2008:

Classification: Eye Irritation (Category 2)
Specific Target Organ Toxicity, Single Exposure (Category 3)
Respiratory Sensitization (Category 1)

Signal Word: **Danger**

Pictograms:



Hazard Statements:
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.

Precaution Statements:
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

According to Directives 67/548/EEC and 1999/45/EC:

Symbol: Xn: Harmful

R-phrases: 36/37/38-42: Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.

S-phrases: 22-24-26-36/37: Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Pepsin A	232-629-3	9001-75-6	Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 Resp. Sens. 1 Xi	H315, H319, H334, H335 R: 36/37/38-42	-

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SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air.
After Skin Contact: Wash affected area with plenty of water. Remove contaminated clothing.
After Eye Contact: Rinse out immediately with plenty of water and seek medical advice.
After Swallowing: Make victim drink plenty of water, induce vomiting, call in physician.
General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.
Special Risks:
Combustible
Special Protective Equipment:
Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
Additional Information:
Cool container with spray water from a safe distance. Contain escaping vapors with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Avoid substance contact. Avoid generation of dusts; do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Environmental Precautions:
Do not discharge into the drains/surface waters/groundwaters.
Additional Notes:
Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

SECTION 7: HANDLING AND STORAGE

Handling:	Storage:
Avoid generation of dusts. Do not inhale substance.	Tightly closed. Dry. Cool (below +15°C) and in refrigerator if possible.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:
Safety shower and eye bath.
Personal Protective Equipment:
Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Respiratory Protection: Required when dusts are generated.	Protective Gloves: Rubber or plastic	Eye Protection: Goggles or face mask
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Industrial Hygiene:
Change contaminated clothing. Wash hands after working with substance.

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SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Brown to yellow powder	Odor:	Odorless	Density at 20 °C:	ND
Melting Point:	ND	Boiling Point:	ND	Solubility:	10 g/L
pH at 20 °C:	4.5 @ 20 g/L	Explosion Limit:	NA	Flash Point:	NA
Thermal Decomp.:	> 50°C				

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

NA

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

None

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

Subacute to chronic toxicity: Sensitization
 Experience in man: May cause sensitization.
 Bacterial mutagenicity: Bacillus subtilis: negative.

Potential Health Effects:

Inhalation:	Irritations of the mucous membranes, coughing, and dyspnoea. Risk of sensitization.
Skin Contact:	Irritations.
Eye Contact:	Irritations.
Ingestion:	Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
Further Data:	The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity:

Not Available

Chronic Toxicity:

Not Available

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxic effects:
 Biological effects:
 Bacterial toxicity: bacteria EC0: >2000 mg/l /7 d.
 Further ecologic data:
 No ecological problems are to be expected when the product is handled and used with due care and attention.

Further Data: Do not allow to enter waters, waste waters, or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

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SECTION 14: TRANSPORTATION INFORMATION**Land:**

Not subject to transport regulations.

Sea:

Not subject to transport regulations.

Air:

Not subject to transport regulations.

SECTION 15: REGULATORY INFORMATION

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.
Complies with European Council Directives 67/548/EEC and 1999/45/EC.
Complies with OSHA Regulation 29 CFR 1910.1200.
Complies with Canadian Regulation SOR/88-66

SECTION 16: OTHER INFORMATION***Text of phrases under Section 3***

R36/37/38: Irritating to eyes, respiratory system and skin.
R42: May cause sensitization by inhalation.
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.

Revision Information

Revision Date: 2010-12-01
Supersedes edition of: 2009-06-10
Reason for revision: Regulation (EC) No. 1272/2008
Compliance

Legend

NA: Not Applicable
ND: Not Determined

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR
KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE
APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF
THE PROPERTIES OF THE PRODUCT.**