

Material Safety Data Sheet.

1. IDENTIFICATION

Product Identifier: Pepsin 1:10,000 Granular
Other Means of Identification: EC 3.4.23.1
Synonyms: Pepsin A
Chemical Family: Proteolytic digestive enzymes
CAS Number: 9001-75-6
Recommended Use: Food Additive/Dietary Supplement
Restrictions on Use: No data available
Initial Supplier Identifier: Gurvey & Berry Co. Inc.
310 Judson Street, Unit #15
Toronto, ON, Canada, M8Z 5T6
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2. HAZARD IDENTIFICATION

GHS Classification in accordance with Hazardous Products Regulations (HPR) OR/2015-17)

Hazard class	Hazard class and category	Hazard statement
Skin corrosion/irritation	2	H315
Serious eye damage/eye irritation	2A	H319
Sensitization – respiratory.	1B	H334
Sensitization - skin.	1B	H317
Specific target organ toxicity (single exposure) – respiratory irritation	3	H335



Pictograms:

Signal word:

Warning!

Danger!

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements – prevention.

P261	Avoid breathing dust.
P264	Wash hands, skin, and contaminated clothing thoroughly after handling.
P271	Use only in a well-ventilated area.
P280	Wear protective gloves/clothing and eye/face protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P284	Wear respiratory protection. N100 respirator or better. Refer to section 8 of the SDS.

Precautionary statements – response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342 + P316	If experiencing respiratory symptoms: Get emergency medical help immediately.
P302+P352 P333+P317	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical help.
P305+P351+P338 P337+P317	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help.
P362+364	Take off contaminated clothing and wash before reuse.

Any person who experiences any allergic or sensitive reactions to this powder should refrain from handling it again.

Precautionary statements - storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary statements - disposal

P501	Dispose of contents/container to an approved disposal plant and in accordance with local, provincial, federal regulations.
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Hazards not otherwise classified (HNOC) or not covered by GHS.

May cause drowsiness or dizziness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms
Pepsin	9001-75-6	% by weight: 50 — 92%	See section 1
Sucrose	57-50-1	% by weight: 8 — 50%	Sugar, Saccharose
Polysorbate 80	9005-65-6	% by weight: 0.75%	Polyoxyethylene sorbitan monooleate

Notes:

4. FIRST-AID MEASURES

First aid measures by route of exposure:

General:

Avoid breathing dust
Wash hands, skin, and contaminated clothing thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/clothing, respiratory and eye/face protection.

After Inhalation:

Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Get emergency medical help immediately.

After Eye Contact:

Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical help.
Do not allow victim to rub eyes or keep them closed.

After Skin Contact:

Wash with plenty of water.
If skin irritation occurs: Get medical help.

After Ingestion:

Rinse mouth and throat. Give a glass of water to drink. Get medical help.

Most Important Symptoms and Effects, Acute and Delayed:

**Symptoms/effects after inhalation
of dust:**

Wheezing, coughing, sneezing, chest tightness. Faster breathing and fast heartbeat. Drowsiness, confusion, tiredness, dizziness, and fainting.
Blue lips or fingers.

Symptoms/effects after skin contact: Skin irritation, rash. Respiratory reaction is also possible with hypersensitive individuals.

Symptoms/effects after eye contact: Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of the eyes. Respiratory reaction is also possible with hypersensitive individuals.

Symptoms/effects after ingestion: Respiratory reaction is also possible with hypersensitive individuals.

**Medical Conditions Aggravated
By Exposure:**

Pre-existing allergic respiratory conditions

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

In case of fire use water mist, dry chemical, chemical foam, alcohol-resistant foam, or carbon dioxide.

Unsuitable Extinguishing Media: Do not use water jet.

Special Hazards Arising from the Product:

May cause allergic respiratory reaction.

Special Protective Equipment and Precautions for Fire-Fighters:

As in any fire, wear a self-contained breathing apparatus and full protective gear.

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Further information. May cause allergic respiratory reaction.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Communicate hazard.

Evacuate unprotected personnel to safe areas.

Wear personal protective equipment. (see section 8).

Remove all sources of ignition.

Ensure adequate ventilation. Avoid breathing dust.

Prevent further spill if safe to do so.

Wash hands thoroughly with mild soap and water after handling this material.

Methods and materials for containment and cleaning up

Small spill

Wear Personal protective equipment (see section 8).

Prevent further spillage if safe to do so.

Spilled product should be removed immediately to avoid formation of dust.

Vacuum or gently moisten with water, or use dust suppressor and collect into a sealable container for disposal.

Flush spill area with plenty of water (low pressure) into approved sewer.

Avoid formation of aerosols and dusts.

Ensure sufficient ventilation.

Dispose of containers in accordance with local, regional, and federal authority requirement.

Wash contaminated clothing before re-use.

Large spill.

Assess if you can handle the spill.

Get advice from emergency services if necessary.

Wear Personal protective equipment (see section 8).

Prevent further spillage if safe to do so.

Avoid generation of dusts. Ensure adequate ventilation. Avoid breathing dust.

If feasible, shovel into designated, labeled, closed waste containers for disposal.

Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Dispose of containers in accordance with local, regional, and federal authority requirement.

Environmental precautions

Do not let product enter drains and ground.

Reference to other sections

See section 1 for emergency contact.

See section 8 for information on appropriate personal protective equipment.

See section 13 for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Always wear personal protective equipment (see section 8)

Avoid contact with eyes, skin, and clothing.

Avoid ingestion and inhalation.

Use with adequate ventilation.

For precautionary statements see also section 2.2

Wash hands thoroughly after handling.

Do not eat, drink, or smoke in the area.

Conditions for Safe Storage:

Protect from heat, sunlight, and moisture. Store in tightly closed polyliners within a sealed container in an odor-free environment, where normal temperature does not exceed 30C and relative humidity is not more than 70%.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL	TWA	STEL
	N/A	N/A	N/A	N/A

Appropriate Engineering Controls: Local and/or general exhaust ventilation is required.
Eyewash station and safety shower required.

Personal Protection Measures (e.g. personal protective equipment):

Eye/face protection Safety glasses with side-shields for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN (EU).

Skin and body protection Full body protective clothing, boots, gloves. Handle with gloves compatible with this material. Gloves must be inspected prior to use.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If conditions warrant and the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Refer to NIOSH Criteria Guides to determine appropriate unit.

For spills and/or emergencies of unknown concentrations, an approved self-contained breathing apparatus operated in the pressure demand mode is required.

Control of environmental exposure Do not let product enter drains or ground.
This material is harmful to aquatic life.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:	Granular Powder
Color:	Off-White to Light Yellow
Molecular Weight:	No data available
Odour:	Characteristic enzyme order
Odour Threshold:	No data available
pH:	3.0-4.5
Melting Point/freezing point:	No data available
Initial boiling point/boiling range:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability (solid; gas):	Not flammable

Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor Pressure (mmHg):	No data available
Vapor Density (air=1):	No data available
Relative Density (water=1):	No data available
Solubility in Water:	Soluble
Solubility in Other Agents:	No data available
Partition coefficient (n-octanol/water)	No data available
Autoignition	No data available
Decomposition	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other information:	

10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	If extremely high levels of dust are generated in ambient air, material can support combustion.
Conditions to avoid:	Exposure to moisture and heating.
Incompatible materials:	Alcohol, alkalis, tannins, heavy metal salts
Hazardous decomposition products:	formed under fire conditions – Carbon oxides and other toxic fumes.
Other decomposition products	No data available
In the event of fire:	see section 5

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation:	Yes
Skin contact:	Yes
Eye contact:	Yes
Ingestion:	Yes
Acute Toxicity Oral LD₅₀:	No data available
Skin corrosion/irritation:	No data available
Serious Eye Damage/irritation:	Can cause serious eye irritation.
Respiratory and/or Skin Sensitization:	Respiratory and skin sensitizer.
Aspiration Toxicity:	No data available
STOT (Specific Target Organ Toxicity) Single Exposure:	May cause respiratory irritation.
STOT (Specific Target Organ Toxicity) Repeated Exposure:	No data available
Carcinogenicity:	
IARC	Not listed

ACGIH®	Not listed
OSHA	Not listed
Reproductive Toxicity:	No data available
Germ Cell Mutagenicity:	No data available
Interactive Effects	No data available
Additional Information	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data available

Persistence and degradability:

Product is readily biodegradable.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available

Other adverse effects:

13. DISPOSAL CONSIDERATIONS

Wastes of Residues:

Package product wastes.

Close and label the waste receptacles and any unclean empty containers.

Dispose of according to local, provincial, and federal regulations.

Contaminated Packaging:

Do not reuse containers. Dispose of as unused product.

14. TRANSPORT INFORMATION

Not dangerous goods for transport. Keep separated from foodstuffs.

15. REGULATORY INFORMATION

CANADA DSL/NDSL: Pepsin A CAS # 9001-75-6 s listed on the DSL.

This information is based upon knowledge currently available.

More detailed information on the physical and chemical properties can be requested from the supplier. To the best of our knowledge, the information contained herein is accurate and complete. However, this should not be construed to imply any warranty or guarantee. Gurvey & Berry Co. Inc. shall not be held liable for any damage resulting from handling or from contact with the above chemical.

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This document will only be updated as needed.