Pepsin



Section 1

Product Description

Product Name: Pepsin

Recommended Use: Science education applications

Synonyms: Pepsin

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER





Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

GHS Classification:

Respiratory Sensitisation Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Acute Toxicity Oral Contains

Acute Toxicity Dermal Contains

Acute Toxicity Dermal Contains

Acute Toxicity Inhalation Gas

100 % of the mixture consists of ingredient(s) of unknown toxicity

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100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Vapor 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Dust/Mist 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Pepsin
 9001-75-6
 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF

INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: 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 advice/attention.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

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Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Nitrogen containing gases

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-

ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate

ventilation wear respiratory protection. Readily absorbs moisture from air. Avoid contact with skin and eyes. Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a

cool, well-ventilated place.

Keep Refrigerated.

Storage Code: Green - general chemical storage

Section 8

Protection Information

ACGIH **OSHA PEL Chemical Name** (TWA) (STEL) (TWA) (STEL) Pepsin N/A N/A N/A N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. Use local exhaust ventilation

or other engineering controls to minimize exposures and maintain operator comfort.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s): NIOSH approved air purifying respirator with HEPA filter.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

Section 9

Physical Data

Formula: Pepsin 1 X NF

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Molecular Weight: No data available

Appearance: Beige Powder

Vapor Density (Air=1): No data available **Odor:** Mild Characteristic Specific Gravity: No data available Odor Threshold: No data available Solubility in Water: Soluble

pH: No data available

Log Pow (calculated): No data available Melting Point: No data available Autoignition Temperature: No data available Boiling Point: No data available **Decomposition Temperature:** No data available Flash Point: No data available Viscosity: No data available

Flammable Limits in Air: No data available Percent Volatile by Volume: No data available

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Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Elevated temperatures Basic pH conditions.

Incompatible Materials: Alcohols, Caustics (bases), Metal Salts, Strong oxidizing agents, Tannins

Hazardous Decomposition Products: Nitrogen containing gases, Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation.

Symptoms (Acute): No data available, Respiratory Irritation, Dermititis, Respiratory Sensitization

Delayed Effects: Respiratory Sensitization

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Pepsin9001-75-6Not determinedNot determinedNot determined

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAPepsin9001-75-6Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: Evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: Respiratory system Chronic: Respiratory system

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

Pepsin 9001-75-6

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

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Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Pepsin	9001-75-6	No	No	No	No	No

Section 16

Additional Information

Revised: 10/26/2015 Replaces: 10/15/2015 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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