Pepsin



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Chemical Information: Chemtrec: Pepsin Science education applications Pepsin Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398 800-227-1150 (8am-5pm (ET) M-F) 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	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Dermal Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Gas	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	

Composition / Information on Ingredients

First Aid Measures

Chemical Name	CAS #	<u>%</u>
Pepsin	9001-75-6	100

Section 4

Section 3

Emergency and First Aid Procedures

Eyes: Skin Contact: Ingestion:	 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. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Ta ke off contaminated clothing and wash before reuse. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Section 5	Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection: Use dry chemical, CO2 or appropriate foam.

n: 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 Released or Spilled:	EXAMPLE 1 Solution Constant 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
	void breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well entilated area. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate

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	-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 Refridgerated.

Storage Code: Green - general chemical storage

Section 8	Protection Information			
	ACGIH		OSHA PEL	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	(TWA)	<u>(STEL)</u>
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 available.			
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 availab	le		

Section 9

Formula: Pepsin 1 X NF Molecular Weight: No data available Appearance: Beige Powder Odor: Mild Characteristic Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: No data available

Physical Data

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials:

Reactivity Data

Not generally reactive under normal conditions. Stable under normal conditions. Elevated temperatures Basic pH conditions. Alcohols, Caustics (bases), Metal Salts, Strong oxidizing agents, Tannins

Vapor Pressure: No data available

Specific Gravity: No data available

Solubility in Water: Soluble

Viscosity: No data available

Evaporation Rate (BuAc=1): No data available

Vapor Density (Air=1): No data available

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Percent Volatile by Volume: No data available

Hazardous Decomposition Products: Hazardous Polymerization:

Nitrogen containing gases, Carbon dioxide, Carbon monoxide Will not occur

Toxicity Data

Section 11		Toxicity	y Data			
Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation. P: No data available, Respiratory Irritation, Dermititis, Respiratory Sensitization Respiratory Sensitization					
Acute Toxicity: Chemical Name Pepsin	S	CAS Number 9001-75-6	Oral LD5 Not applicable	-		nhalation LC50 ot applicable
Carcinogenicity: Chemical Name Pepsin	S	CAS Number 9001-75-6	IARC Not listed	Not listed	TP	OSHA ot listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a muta No evidence of a terat Evidence of a sensitiz No evidence of negati Respiratory system Respiratory system	ogenic effect (birth ation effect. ve reproductive effe				
Section 12		Ec	ological D	Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	No data No data No data No data	s not expected to be	e harmful to the	ecology.		
Chemical Name Pepsin		CAS Number E 9001-75-6	co Toxicity			
Section 13		Dispo	sal Inforr	nation		
Disposal Methods: Waste Disposal Code(s	contact a permitted waste disposer (TSD) to assure compliance.					
Section 14		Trans	port Infor	mation		
Ground - DOT Proper S Not regulated for transpo				oper Shipping National for air transport b		
Section 15		Regula	tory Info	rmation		
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ

Additional Information

Section 16

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Replaces: 01/24/2013

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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.

Glossary

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