



1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	Casein, Enzymatic Hydrolysate	
PRODUCT NUMBER:	C184	
COMPANY INFO:	<i>Phyto</i> Technology Laboratories® PO Box 12205, Shawnee, KS 66282-2205 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442 www.phytotechlab.com	
EMERGENCY PHONE NUM	IBER: 1-800-535-5053 - US Only 1-352-323-3500 - International	
RECOMMENDED USE:	For Research Use Only	
RESTRICTIONS ON USE:	Products sold by <i>Phyto</i> Technology Laboratories® are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.	

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.: 91079-40-2 or 65072-00-6

Ingredient	CAS Number	Percent	Hazardous
Casein, Enzymatic Hydrolysate	91079-40-2	>95 %	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self- contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	Carbon monoxide, carbon dioxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Wash thoroughly after use.		
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.		
Incompatibilities:	Strong oxidizing agent		
Recommended Storage Temperature:	Room Temperature		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):		s (PELs):	No data available		
Threshold Limit Values (TLVs):			No data available		
Engineeri	ng Controls:		Handle in accordance to general industrial hygiene and safety practice.		
Personal	Protective Equipment (PPE)	:			
	Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available wheye contact can occur.			
	Skin Protection:	Protective gloves			
	Body Protection:	Lab coat			
	Respiratory Protection:	Respiratory protection is not required. Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance. A NIOSH/MSHA approved air purifying respirator is recommended where airborn concentrations are expected to exceed exposure limits. Protection provided by pur- respirators is limited.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-whit	e to tan powder		
pH:	No data	No data available		
Solubility:	Soluble i	n water		
Melting Point:	280 °C			
Vapor Density:	No data	available		
Vapor Pressure:	No data	available		
Odor:	Odorless			
Odor Threshold:	No data	available		
Viscosity:	No data	No data available		
Relative Density:	No data available			
Evaporation Rate:		No data available		
Initial Boiling Point a Boiling Range:	and	No data available		
Flammability (solid,	gas):	No data available		
Partition coefficient: n-octanol/water):		No data available		
Auto-ignition Temperature:		No data available		
Decomposition Temp	perature:	No data available		
Flash Point (Closed G	Cup):	No data available		
Flammable Limits:		Upper (%) – No data available	Lower (%) – No data available	

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazard Reactions:	Will not occur
Conditions to Avoid:	Moisture
Incompatibles Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (Oral-Rat)(mg/Kg):		No data available	
	LD ₅₀ (Oral-Mou	ise)(mg/K	g):	No data available
	LD ₅₀ (Dermal-Rabbit)(mg/Kg):		/Kg):	No data available
Carcinogenicity:	NTP:	No		
	IARC:	No		
	Z List:	No		
	OSHA Reg:	No		
Reproductive Toxicity:	No data availab	le		
Symptoms Associated with Overexposure:	Irritation, sneez	ing, gastro	intestinal	upset
Specific Target Organ Toxicity:	Single Exposure	2:	No data a	available
i onicity.	Repeated Expos	sure:	No data a	available

Target Organs:	None identified
Medical Conditions Aggravated By Exposure:	None identified
Routes of Entry:	Inhalation, Ingestion
NIOSH/RTECS NO:	Not listed

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available
Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effects:	No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure:	Dispose in accordance with all applicable federal, state, and local environmental
	regulations.
EPA Hazardous Waste Number:	No data available

14. TRANSPORT INFORMATION

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Domestic (D.O.T.):	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)			
	Hazard Class:	N/A			
	UN/NA:	N/A			
	Labels:	N/A			
International:					
IMDG:	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)			
	Hazard Class:	N/A			
	UN/NA:	N/A			
	Labels:	N/A			
IATA:	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)			
	Hazard Class:	N/A			
	UN/NA:	N/A			
	Labels:	N/A			
15. REGULATORY INFORMATION					

TSCA: Yes SARA TITLE III: Section 302 (EHS) Ingredients: No Section 313 Ingredients: No Section 304 (EHS/CERCLA) Ingredients: No Section 311/312 Hazard: No SARA Hazards No SARA Hazards No somponents are subject to the Massachusetts Right to Know Act. New Jersey Right to Know Components:

Casein

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	0		0	0
NFPA Rating:	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	0	0	0	

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