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Section	n 1. Identification				
Product Name	Clostripain				
Product Code	004-1000, 004-2000				
Chemical Name	Purified Clostripain from Clostridium histolyticum				
Synonyms	Clostridiopeptidase B				
Intended Application	Purified enzyme for the release of cells from a tissue matrix				
Manufacturer	VitaCyte, LLC				
	1341 Sadlier Circle West Drive				
	Indianapolis, IN 46239				
Technical Phone #	317-917-3457				
Section	2. Hazard(s) Identification				

Section	2. Hazard(s) Identification
Hazard Classification	GHS Classification in accordance with 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) – Not a hazardous substance.
Hazard Statements	Not a hazardous substance

Section	3. Composition/Information on Ingredients	
Component	CAS-No	Weight %
Purified Clostripa	n 9028-00-6	100 %

Section	4. First-Aid Measures				
Eyes	In case of contact, immediately wash eyes with copious amounts of water for at least 15 minutes.				
Skin	In case of contact, wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes.				
Inhalation	If swallowed, wash out mouth with water provided person is conscious. Call a physician.				
Ingestion	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call Poison Control Center or seek medical attention.				

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Ingestion	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call Poison Control Center or seek medical attention.			
Section	5. Fire-Fighting Measures			
Suitable Extinguishing Media	Water spray, carbon dioxide, dry chemical powder, or appropriate foam			
Unsuitable Extinguishing Media	No information available			
Autoignition Temperature	Not applicable			
Explosion Hazard	No information available			
Hazardous Combustion Products	Carbon monoxide, carbon dioxide			
Firefighting Precautions	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
NFPA Rating	Health 1 / Flammability 0 / Instability 0 / Physical Hazards N/A			

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Section	6. Accidental Release Measures			
Personal Precaution	Keep bottle tightly closed and avoid forming dust.			
Emergency Procedures	Ventilate area and evacuate personnel to safe area.			
Containment	Soak up liquid with absorbent material and place contaminated material in appropriate sealed container for waste disposal.			
Clean-Up	Wash spill site after containment is complete.			
Section	7. Handling and Storage			
Handling	Avoid dust formation. Do not get in eyes, on skin, on clothing, or breathe dust.			
Storage	Keep in a tightly closed container at -20°C or colder.			
Section	8. Exposure Controls/Personal Protection			
Permissible Exposure Limits	This product does not have occupational exposure limits.			
Engineering Controls	Safety shower, eye wash station and mechanical exhaust system			
Eye Protection	Chemical safety goggles or appropriate eye protection			
Skin Protection	Compatible chemical-resistant gloves			
Respiratory Protection	Respiratory protection is not required under normal use of this product. If respiratory protection is needed use a government approved respirator.			
Hygiene	Wash thoroughly after handling.			
Section	9. Physical and Chemical Properties			
Appearance	White to off-white lyophilized cake			
Physical State	Solid			
рН	7 – 8			
Molecular Weight	~55 kDa			
Boiling Point/Range	Not determined			
Melting Point/Range	Not determined			
Freezing Point	Not determined			
Vapor Pressure	Not determined			
Vapor Density	Not determined			
Evaporation Rate	Not determined			
Specific Gravity	Not determined			
Solubility	Soluble in water, limit not determined			
Section	10. Stability and Reactivity			
Reactive Hazard	None known, based on information available			
Stability	Stable under ordinary conditions of storage and use			
Conditions to Avoid	Heat and extreme pH			
Incompatible Materials	Strong oxidizing agents, strong acids and bases			
Hazardous Decomposition	sition Nature of decomposition products not known			
Hazardous Polymerization	None under normal processing			

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Section	11. Toxicolo	gical Informa	ation				
Routes of Exposure			nd/or eye conta	nct			
Acute Toxicity	No information		, 0. 0,0 00				
Chronic Toxicity	No information available						
Carcinogenicity	IARC		NTP		OSHA	AC	CGIH
Collagenase	Not list		Not listed		Not listed		listed
Glycylglycine	Not list		Not listed		Not listed		listed
Calcium Chloride							
	Not listed Not listed Not listed Not listed Not listed May cause skin, lung and eye irritation. May be harmful if absorbed through the skin, ingested or						
Symptoms both acute and delayed	inhaled.	in, lung and ey	e irritation. Ma	y be narmiul if	absorbed throu	ugn the skin, in	gested or
,cu							
Section	12. ECOLOG	ICAL INFORM	MATION				
Ecotoxicity	No information	n available					
Persistence	Unlikely base	d on informati	on available				
Bioaccumulation	No information	n available					
Mobility	Likely to be m	obile in the er	nvironment due	to solubility in	water		
Section	13. DISPOSA	L CONSIDER	ATIONS				
Waste Disposal	-		d be managed i				-
	Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of						
			ents in accordar				
					,,		
Section	14. TRANSP	ORT INFORM	IATION				
DOT	US, Not regul	ated					
TDG	Canada, Not r	egulated					
IATA	International	Air Transport	Association, No	t regulated			
IMDG/IMO	International	Maritime Dan	gerous Goods, I	Not regulated			
Cartina	4F DECLUA	TODY INFOR	MATION				
Section		TORY INFORI	WATION				
US Federal TSCA 12(b)	Not applicable						
US Federal CERCLA	Not applicable						
US Federal SARA 313	Not applicable						
US Federal 311/312 (US)	Acute health	nazard					
California Prop 65	Not listed						
Canada DSL/NDSL	Not listed						
European Union EINECS	232-822-2						
International	NLP	ELINCS	ENCS	AICS	PICCS	IECSC	KECL
	Not listed	Not listed	Not listed	Not listed	Not listed	Not Listed	Not listed
Section	16. OTHER						
Prepared By		latory Affairs	(feedback@vita	icyte com)			
Creation Date	5 May 2009	natory Arians	, recupack@vild	icyte.comj			
Revision Date	4 Oct 2023	at has boon	dated to compl	v with the US O	SHV HasCom 3	012 Standard	renlacing
Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).						
	Classification	and Labening c	or Chemicais (Oi	13).			

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guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.