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Section	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	in 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.				

Inhalation Ingestion	If swallowed, wash out mouth with water provided person is conscious. Call a physician. 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	Nature of decomposition products not known				
Hazardous Polymerization	None under normal processing				
Hazardous Reactions	None under normal processing				

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Section	11. Toxicolo	gical Inform	ation				
Routes of Exposure			nd/or eye conta	nct			
Acute Toxicity	No information		, 0. 0,0 00				
Chronic Toxicity	No information						
Carcinogenicity	IARC NTP OSHA ACGIH						`GIH
Collagenase	Not list		Not listed		Not listed		listed
Glycylglycine	Not list		Not listed		Not listed		listed
Calcium Chloride	Not list		Not listed		Not listed		listed
Symptoms both acute and							
delayed	May cause skin, lung and eye irritation. May be harmful if absorbed through the skin, ingested or inhaled.						igested of
•							
Section	12. ECOLOGICAL INFORMATION						
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 e	nvironment due	to solubility in	water		
	ı						
Section	13. DISPOSA	AL CONSIDER	ATIONS				
Waste Disposal	-	-	d be managed i				-
			nation of this pr ulations may dif				
			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			
Section	15 REGULA	TORY INFOR	MATION				
US Federal TSCA 12(b)	Not applicable		WATION				
US Federal CERCLA	Not applicable						
US Federal SARA 313	Not applicable						
US Federal 311/312 (US)							
California Prop 65	Acute health hazard Not listed						
Canada DSL/NDSL	Not listed						
European Union EINECS	232-822-2						
International	NLP	ELINCS	ENCS	AICS	PICCS	IECSC	KECL
international	Not listed	Not listed	Not listed	Not listed	Not listed	Not Listed	Not listed
	Not listed	NOT listed	Not listed	Not listed	Not listed	NOT LISTED	NOT listed
Section	16. OTHER						
Prepared By	VitaCyte Regu	latory Affairs	(feedback@vita	icyte.com)			
Creation Date	5 May 2009						
Revision Date	4 Oct 2023						
Summary	This documer	nt has been up	dated to compl	y with the US O	SHA HazCom 2	012 Standard	replacing
•	the current le	the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of					
		_	of Chemicals (GI				
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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.