

Section	1. Identification				
Product Name	DE Collagenase 100/10, DE Collagenase 100C, DE Collagenase 200/20, DE Collagenase 400/40, DE Collagenase 600/60 DE Collagenase 800/80				
Product Code	011-1010, 011-1020, 011-2010, 011-1030, 011-1040, 011-1050, 011-1110, 011-1120, 011-1130, 011-1140, 011-1150				
Chemical Name	Enriched Collagenase from Clostridium hystolyticum blended with purified neutral protease from				
	Paenibacillus polymyxa				
Synonyms	Collagenase Blend and Neutral Protease				
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				
Hazard Classification	GHS Classification in accordance with 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)				
	Skin Irritation (Category 2), H315				
	Eye Irritation (Category 2A), H319				
	Respiratory Sensitization (Category 1), H334				
	Specific Target Organ Toxicity – Single Exposure (Category 3), Respiratory System , H335				
Pictograms	\wedge				





Signal Word	Danger
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Hazard Statements

H315 Causes skin irritation.H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/face protection.

P280 Wear protective gloves.

P285 In case of inadequate ventilation wear respiratory protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P332 + P313	If skin irritation occurs: Get medical advice/attention.				
P337 + P313	f eye irritation occurs: Get medical advice/attention.				
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.				
P362	Take off contaminated clothing and wash before reuse.				
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.				
P405	Store locked up.				

P501 Dispose of contents/container to an approved waste disposal plant.

Section	3. Composition/Information on Ingredients					
Component		CAS-No	Weight %			
Enriched Collagena	ase	9001-12-1	10-50 %			
Purified B. polymyxa Neutr	ral Protease	42613-33-2	2-4 %			
Non-reactive stabilizing	g agent	Trade Secret	46-88 %			
Section	4. First-Aid Measure	es				
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 ou	t mouth with water provided pers	son 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.					
Section	5. Fire-Fighting Mea	asures				
Suitable Extinguishing Media	Water spray, carbon d	lioxide, dry chemical powder, or a	ppropriate foam			
Unsuitable Extinguishing Media	No information availal	ble				
Autoignition Temperature	Not applicable					
Explosion Hazard	No information available					
Hazardous Combustion Products	Carbon monoxide, car	bon 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 2 / Flammabil	lity 0 / Instability 0 / Physical Ha.	zards N/A			
Section	6. Accidental Releas	se Measures				
Personal Precaution	Keep bottle tightly clo	sed and avoid forming dust.				
Emergency Procedures	Ventilate area and eva	acuate personnel to safe area.				
Containment	Soak up liquid with ab container for waste di	•	minated material in appropriate sealed			
Clean-Up	Wash spill site after co	ontainment is complete.				
Section	7. Handling and Storage					
Handling	Avoid dust formation.	Do not get in eyes, on skin, on clo	othing, or breathe dust.			
Storage	Keep in a tightly closed	d container at +2-8°C or colder.				
Section	8. Exposure Control	ls/Personal Protection				

Permissible Exposure Limits This product does not have occupational exposure limits.

SAFETY DATA SHEET

DE Collagenase 100, 100C, 200, 400, 600, 800

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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 pH 6 – 7

Molecular Weight ~115 kDa and ~35 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

Section 11. Toxicological Information

Routes of Exposure Ingestion, inhalation, skin and/or eye contact

Acute Toxicity No information available
Chronic Toxicity No information available

Carcinogenicity No information available

ACGIH NTP **OSHA** Collagenase Not listed Not listed Not listed Not listed Glycylglycine Not listed Not listed Not listed Not listed **Calcium Chloride** Not listed Not listed Not listed Not listed

Symptoms both acute and

delayed

May cause skin, lung and eye irritation. May be harmful if absorbed through the skin, ingested or inhaled.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity No information available

Persistence Unlikely based on information available

Bioaccumulation No information available

Mobility Likely to be mobile in the environment due to solubility in water

Section	13. DISPOSAL CONSIDERATIONS							
Waste Disposal	Recovery or recycling should be managed in an appropriate and approved waste disposal facility. 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 container and unused contents in accordance with federal, state and local requirements.							
Section	14. TRANSPORT INFORMATION							
DOT	US, Not regu	lated						
TDG	Canada, Not	regulated						
IATA	International	Air Transport	Association, No	t regulated				
IMDG/IMO	International Maritime Dangerous Goods, Not regulated							
Section	15. REGULATORY INFORMATION							
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 hazard							
California Prop 65	Not listed							
Canada DSL/NDSL	Not listed							
European Union EINECS	232-582-9/23	33-966-6						
International	NLP	ELINCS	ENCS	AICS	PICCS	IECSC	KECL	
	Not listed	Not listed	Not listed	Not listed	Not listed	Listed	Not listed	
Section	16. OTHER							
Prepared By	VitaCyte Reg	ulatory Affairs	(feedback@vita	icyte.com)				
Creation Date	1 Oct 2015							
Revision Date	9 July 2021							
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).							
Disclaimer	The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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.							