

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/19/2019 Revision date: 06/19/2019 Version: 1.0

Date		in date: 00/10/2010		
SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: endo-Polygalacturonana	ase (Pectobacterium carc	otovorum)	
Product code	: E-PGALPC			
1.2. Recommended use and restrict	ons on use			
Use of the substance/mixture	: Use as laboratory reage	nt		
1.3. Supplier				
Manufacturer Deltagen 14 Pacific Place Kilsyth, 3137 - Australia T +613-9728-3038 - F +613-9761-9562 info@deltagen.com.au				
1.4. Emergency telephone number				
Emergency number	: +613-9728-3038 [9 am 1	to 5 pm GMT - Monday to	o Friday]	
SECTION 2: Hazard(s) identificat	ion			
2.1. Classification of the substance	or mixture			
GHS-US classification				
Respiratory sensitization, Category 1	May cause an a	llergy or asthma symptor	ms or breathir	ng difficulties if inhaled
2.2. GHS Label elements, including	procautionary statements			
GHS-US labeling	precautionary statements			
Hazard pictograms (GHS-US)				
Signal word (GHS-US)	Danger			
Hazard statements (GHS-US)	: May cause an allergy or	asthma symptoms or bro	eathing difficu	ulties if inhaled
Precautionary statements (GHS-US)	If inhaled: If breathing is	entilation] wear respirato difficult, remove person ry symptoms: Call a doct	to fresh air ai	nd keep comfortable for breathing
2.3. Other hazards which do not res	ult in classification			
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable				
<b>SECTION 3: Composition/Informa</b>	ation on ingredients			
SECTION 5. Composition/informa				
Substances           Not applicable				
Substances           Not applicable	Common Name (Synonyms)	Product identifier	%	GHS-US classification

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#### Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	Wash skin with plenty of water.
First-aid measures after eye contact	Rinse eyes with water as a precaution.
First-aid measures after ingestion	Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects	acute and delayed)
Symptoms/effects after inhalation	May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
4.3. Immediate medical attention and spec	ial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishin	ng media
Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the che	mical
Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment and pre	cautions for fire-fighters
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measure	ires
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containmen	t and cleaning up
Methods for cleaning up	Take up liquid spill into absorbent material.
Other information	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.</li> </ul>
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
Polygalacturonase (9032-75-1)	
Not applicable	

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8.2. Appropriate engineering controls						
Appropriate engineering controls : Ensure good ventilation of the work station.						
Environmental exposure controls : Avoid r			release to the environm	ient.		
8.3. Individual protection measures/Personal protective equipment						
Hand protection:						
Protective gloves						
Туре	Material		Permeation	Thickne	ess (mm)	Permeation
Disposable gloves	sable gloves Nitrile rubber (NBR)		3 (> 60 minutes)			2 (< 1.5)
Eye protection:						
Safety glasses						
Type Use				Characteristics		
Safety glasses Droplet				With side shields		
Skin and body protection:						
Wear suitable protective clothing						
Туре						

Lab coat

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Wear respiratory protection.

Device	Filter type	Condition
Dust mask	Type P1	Protection for Liquid particles



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	d chemical properties	
Physical state	: Liquid	
Color	: white	
Odor	: None	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Soluble in water.	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	

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Viscosity, dynamic	: No data available			
Explosion limits	: No data available			
Explosive properties	: No data available			
Oxidizing properties	: No data available			
9.2. Other information				
No additional information available				
<b>SECTION 10: Stability and reactivity</b>				
10.1. Reactivity				
The product is non-reactive under normal condition	ons of use, storage and transport.			
10.2. Chemical stability				
Stable under normal conditions.				
10.3. Possibility of hazardous reactions				
Contact with acids liberates very toxic gas.				
10.4. Conditions to avoid				
None under recommended storage and handling	conditions (see section 7).			
10.5. Incompatible materials				
Acids.				
10.6. Hazardous decomposition products				
Under normal conditions of storage and use, haz	ardous decomposition products should not be produced.			
SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity	: Not classified			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity : Not classified				
Specific target organ toxicity – single exposure : Not classified				
Specific target organ toxicity – repeated exposure	: Not classified			
Aspiration hazard	: Not classified			
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.			
SECTION 12: Ecological information				

12.1. Toxicity Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	
Effect o	n the global warming	: No known effects from this product.

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GWPmix comment : No known effects from this product.

SECTION 13: Disposal consid	lerations
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
<b>SECTION 14: Transport inforr</b>	nation
Department of Transportation (DOT) In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory info	rmation
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA No additional information available	
EU-Regulations	
No additional information available	
National regulations No additional information available	
15.3. US State regulations	
No additional information available	
SECTION 16: Other information	
Revision date	: 06/19/2019
Full text of H-phrases:	
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
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SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.