



ENZYME SOLUTION

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1.1	ontification				
SECTION 1: Id					
1.1. Identifica	ition	• # .			
Product form					
Product name	-	ENZYME SOLUTION			
Product code	:	LPS100B			
	ended use and restrictions on				
Use of the substa	nce/mixture :	Laboratory chemical			
Cambridge, CB4	d Gene Technology, 418 Cambrid 0PZ. United Kingdom 294048 F: +44 (0) 1223 294986 com	dge Science Park, Milton Road,			
1.4. Emerger	cy telephone number				
Country	Organization/Company	Address	Emergency	number	Comment
USA	American Association of Poison Control Centers		1-800-222-1		
SECTION 2: Ha	azard(s) identification				
2.1. Classific	ation of the substance or mixtu	re			
GHS-US classifica	ition				
Respiratory sensit Category 1	tization, H334	May cause allergy or asthr	ma symptoms o	or breathing dif	ficulties if inhaled
Full text of H staten	nents : see section 16				
2.2. GHS Lab GHS-US labeling Hazard pictogram	el elements, including precauti s (GHS-US) :				
Signal word (GHS	-US) :	Danger			
Hazard statement	s (GHS-US) :	H334 - May cause allergy or asthm	na symptoms o	r breathing diff	iculties if inhaled
Precautionary sta	tements (GHS-US) :	P261 - Avoid breathing fume, mist P284 - In case of inadequate venti P304+P341 - If inhaled: If breathin comfortable for breathing P342+P311 - If experiencing respi P501 - Dispose of contents/contair accordance with local, regional, na	lation wear res g is difficult, re ratory symptom her to hazardou	nove person to ns: Call a poisc is or special w	o fresh air and keep on center/doctor/ aste collection point, in
2.3. Other ha	zards which do not result in cla	ssification			
No additional inform	nation available				
	n acute toxicity (GHS US)				
Not applicable	omposition/Information o	n ingredients			
Not applicable		n ingredients			
Not applicable SECTION 3: Co		n ingredients			
Not applicable SECTION 3: Co 3.1. Substant Not applicable	ces	n ingredients			
Not applicable SECTION 3: Co 3.1. Substand Not applicable	ces	n ingredients Product identifier	%	GHS-US clas	ssification



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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. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Wash skin with plenty of water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and ef	fects (acute and delayed)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
4.3. Immediate medical attention and	special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measure	S
5.1. Suitable (and unsuitable) extingu	ishing media
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from the	chemical
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment and	precautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid breathing fume, mist, spray, vapors. Evacuate unnecessary personnel.
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". Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment Prevent ent	try to sewers and public waters. Notify authorities if liquid enters sewers or public waters

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3.	Methods and material for containmen	t and cleaning up
Methods	s for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other in	formation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing fume, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.	





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, inc		ncluding any incompatibilities	
Ctore	an nanditiona	 Store in a well ventilated place. Keen cool 	

al container in a cool, well se.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Pepsin A (9001-75-6)	
Not applicable	

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and o	chemical properties	
Physical state	: Liquid	
Color	: Colorless	
Odor	: characteristic	
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. Non flammable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	





Explosive properties Oxidizing properties

- : No data available
- : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Fume. Carbon monoxide. Carbon dioxide.

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 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	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/effects after inhalation	: May cause 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
6, 6	effects in the environment

12.2. Persistence and degradability ENZYME SOLUTION Persistence and degradability Not established. 12.3. Bioaccumulative potential ENZYME SOLUTION Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects Effect on the global warming : No known effects from this product. GWPmix comment : No known effects from this product.





Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations

: Dispose of contents/container in accordance with licensed collector's sorting instructions.
: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to
: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

TDG

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Pepsin A (9001-75-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).	

15.2. International regulations

CANADA				
	Pepsin A (9001-75-6)			
	Listed on the Canadian DSL (Domestic Substances List)			
EU-Regulations No additional information available				

National regulations

No additional information available

15.3. US State regulations

No additional information available

SEC	TION 16: Other informatior				
Rev	ision date	: 07/07/2017			
Other information		: None.			
Full text of H-phrases:					
	H315	Causes skin irritation			
	11040				

1010	
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

Cytocel	A Sysmex Group Company
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: C
	C - Safety glasses, Gloves, Synthetic apron

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.