



## Safety Data Sheet - Enzyme Solution

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

1.1	.1 Product identifier					
	Product form:		Mixture			
	Product name:		Enzyme Solut	ion		
	Product code:		LPS100B			
	Type of product:		Solution			
1.2	Relevant identifie	ed uses of the sub	stance or mixtu	re and uses advised against		
1.2.1	Relevant identifie	ed uses				
	Main use category	<i>t</i> :	Industrial use,	, Professional use		
	Industrial/Professi	onal use spec:	Industrial. For	professional use only		
	Use of substance/	mixture:	Laboratory ch	emicals		
1.2.2	Uses advised aga	ainst				
	No additional infor	mation available				
1.3	Details of the supplier of the safety data sheet					
	418 Cambridge So T: +44 (0) 1223 29 F: +44 (0) 1223 29 probes@cytocell.c	Cytocell Ltd, Oxford Gene Technology 418 Cambridge Science Park, Milton Road, Cambridge, CB4 0PZ. United Kingdom T: +44 (0) 1223 294048 F: +44 (0) 1223 294986 probes@cytocell.com http://www.ogl.com				
1.4	Emergency telep	hone number				
	Country	Organisation/Cor	npany	Address	Emergency Number	Comment
	Ireland	National Poisons Centre, Beaumon		Beaumont Hospital Beaumont Road, 9 Dublin	+353 1 8379964	
	United Kingdom	National Poisons Service	Information	www.npis.org	111 (England & Wales only) 112 (EU)	

SECTI	SECTION 2: Hazards identification		
2.1	Classification of the substance	or mixture	
2.1.1	Classification according to Reg	ulation (EC) No. 1272/2008 [CLP]	
	Respiratory sensitisation, Categor	y 1 H334	
	Full text of hazard classes and H-s	statements : see section 16	
2.1.2	Adverse physicochemical, huma	an health and environmental effects	
	No additional information available		
2.2	Label elements		
	Labelling according to Regulation	on (EC) No. 1272/2008 [CLP]	
	Hazard pictograms (CLP):	GHS08	
	Signal word (CLP):	Danger	
	Hazardous ingredients:	Pepsin A	

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	Hazard statements (CLP):	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	Precautionary statements (CLP):	P261 - Avoid breathing fume, mist, spray, vapours.  P284 - In case of inadequate ventilation wear respiratory protection.  P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.  P501 - Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
2.3	Other hazards		
	No additional information available		

SECT	SECTION 3: Composition/information on ingredients				
3.1	Substances	Substances			
	Not applicable				
3.2	Mixtures				
	Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
	Pepsin A	(CAS-No.) 9001-75-6 (EC-No.) 232-629-3 (EC Index-No.) 647-008-00-6	0,1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335	
	Full text of H-statements: see section 16				

SECT	SECTION 4: First aid measures			
4.1	Description of first aid measures			
	First-aid measures general:	Call a poison center or a doctor 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 or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.		
4.2	Most important symptoms and effects	s, both acute and delayed		
	Symptoms/effects after inhalation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
4.3	Indication of any immediate medical a	attention and special treatment needed		
	Treat symptomatically.			

SECT	SECTION 5: Firefighting measures			
5.1	Extinguishing media			
	Suitable extinguishing media: Unsuitable extinguishing media: Use extinguishing media appropriate for surrounding fire. Do not use a heavy water stream.			
5.2	Special hazards arising from the substance or mixture			
	Hazardous decomposition products in case of fire:	Toxic fumes may be released.		

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5.3	Advice for firefighters		
	Firefighting instructions:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the 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.	

SECTI	ON 6: Accidental release r	neasures	
6.1	Personal precautions, prot	ective equipment and emergency procedures	
6.1.1	1 For non-emergency personnel		
	Emergency procedures:	Ventilate spillage area. Avoid breathing fume, mist, spray, vapours. 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		
		nent. Prevent entry to sewers and public waters. e enters sewers or public waters.	
6.3	Methods and material for c	ontainment and cleaning up	
	Methods 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 information:	Dispose of materials or solid residues at an authorised site.	
6.4	Reference to other section	s	
	For further information refer to section 13. See Heading 8. Exposure controls and personal protection.		

SECT	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, vapours. 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 vapour.				
	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, in	cluding any incompatibilities			
	Storage conditions:  Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use.				
	Incompatible products:	Strong bases. Strong acids.			
	Incompatible materials:	Sources of ignition. Direct sunlight.			
7.3	Specific end use(s)				
	No additional information available.				

SECT	SECTION 8: Exposure controls/personal protection			
8.1	Control parameters			
	No additional information available.			
8.2	Exposure controls			
	Appropriate engineering controls:	Ensure good ventilation of the work station.		
	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.		
	Environmental exposure controls:	Avoid release to the environment.		
	Other information:	Do not eat, drink or smoke during use.		

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SECT	SECTION 9: Physical and chemical properties			
9.1	Information on basic physical and chemical properties			
	Physical state:	Liquid		
	Colour:	Colourless		
	Odour:	Characteristic		
	Odour threshold:	No data available		
	pH:	No data available		
	Relative evaporation rate (butylacetate=1):	No data available		
	Melting point:	Not applicable		
	Freezing point:	No data available		
	Boiling point:	No data available		
	Flash point:	No data available		
	Auto-ignition temperature:	No data available		
	Decomposition temperature:	No data available		
	Flammability (solid, gas):	Not applicable, Non flammable.		
	Vapour pressure:	No data available		
	Relative vapour density at 20°C:	No data available		
	Relative density:	No data available		
	Solubility:	No data available		
	Log Pow:	No data available		
	Viscosity, kinematic:	No data available		
	Viscosity, dynamic:	No data available		
	Explosive properties:	No data available		
	Oxidising properties:	No data available		
	Explosive limits:	No data available		
9.2	Other information			
	No additional information available			

SECT	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	1.1 Information on toxicological effects	
	Acute toxicity:	Not classified
	Skin corrosion/irritation:	Not classified
	Serious eye damage/irritation:	Not classified
	Respiratory or skin sensitisation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Germ cell mutagenicity:	Not classified
	Carcinogenicity:	Not classified
	Reproductive toxicity:	Not classified
	STOT-single exposure:	Not classified
	STOT-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.

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SECTION 12: Ecological information			
12.1	Toxicity		
	Ecology - general:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
12.2	Persistence and degradability		
	Enzyme Solution		
	Persistence and degradability	Not established.	
12.3	Bioaccumulative potential		
	Enzyme Solution		
	Persistence and degradability	Not established.	
12.4	Mobility in soil		
	No additional information available.		
12.5	2.5 Results of PBT and vPvB assessment		
	No additional information available.		
12.6	.6 Other adverse effects		
	Additional information:	Avoid release to the environment.	

SECTION 13: Disposal considerations			
13.1	Waste treatment methods		
	Waste treatment methods:	Dispose of contents/container in accordance with licensed collector's sorting instructions.	
	Product/Packaging disposal recommendations:	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
	Ecology - waste materials:	Avoid release to the environment.	

SECT	SECTION 14: Transport information				
	In accordance with ADR / RID / IMDG / IATA / ADN				
	ADR	IMDG	IATA	ADN	RID
14.1	UN number				
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2	UN proper shipping name				
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3	Transport hazard class(es)				
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4	Packing group				
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5	Environmental hazards				
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	No supplementary information available				
14.6	Special precautions for user				
	Overland transport				
	Not applicable				
	Transport by sea				
	Not applicable				

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	Air transport
	Not applicable
	Inland waterway transport
	Not applicable
	Rail transport
	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
	Not applicable

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture				
15.1.1	EU-Regulations				
	The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:				
	3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008		Pepsin A		
	3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10  Contains no substance on the REACH candidate list. Contains no REACH Annex XIV substances.		Enzyme Solution - Pepsin A		
15.1.2	National regulations				
	Germany				
			ard class (WGK) nwg, Non-hazardous to water (Classification		
	12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV:	_	to VwVwS, Annex 4). ect of the 12. BlmSchV (Hazardous Incident Ordinance).		
	Netherlands				
	SZW-lijst van kankerverwekkende stoffen: SZW-lijst van mutagene stoffen: NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling:	Pepsin A is listed. Pepsin A is listed. None of the components are listed.  None of the components are listed.  None of the components are listed.			
	Denmark				
	Recommendations Danish Regulation:	Young peo	ple below the age of 18 years are not allowed to use the product.		
15.2	Chemical safety assessment				
	No chemical safety assessment has been carried out.				

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SECTION 16: Other information		
Other information:	None.	
Full text of H- and EUH-st	atements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
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	

SDS EU\_NSC

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.

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