

	accor	ding to Regulation (EC) No. 1907/2006 as	amended by (EC) No. 1272/2008
	Section 1. Id	entification of the Substance/Mixtu	ire and of the Company/Undertaking
1.1	Product Code:	HPG 2001	
	Product Name:	Human Glu-Plasminogen	
1.2	Relevant identified uses of the	ne substance or mixture and uses a	advised against:
	Relevant identified uses:	For research use only.	
1.3	Details of the Supplier of the Company Name:	Safety Data Sheet: Enzyme Research Laboratories 1801 Commerce Dr. South Bend, IN 46628	
	Web site address:	www.enzymeresearch.com	
1.4	Emergency telephone number	er:	
	Emergency Contact:	Within USA and Canada:	+1 (800) 729-5270
		Outside USA and Canada:	+1 (574) 288-2268
		Section 2. Hazards	Identification
2.1	Classification of the Substar	nce or Mixture:	
	2.1.1 Classification acco	ording to Regulation (EC) No 1272/2	2008 [CLP]:
2.2	Label Elements:		
	2.2.1 Labeling according	g to Regulation (EC) No 1272/2008	[CLP]:
	GHS Signal Word: GHS Hazard Phrases: Based on evaluation of curre GHS Precaution Phrases:	ently available data this substance or i	mixture is not classifiable according to GHS.
	No phrases apply.		
	GHS Response Phrases:		
	No phrases apply.		
	GHS Storage and Disposal	Phrases:	
	•	Storage and Section 13 for Disposal	information
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SAFETY DATA SHEET Human Glu-Plasminogen

2.3 Adverse Human Health Effects and Symptoms:

Biohazard - Handle as if capable of transmitting infectious agents. May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
9001-91-6 NA	Human Glu-Plasminogen	~98 - 99%	NA NA	No data available.
7647-14-5 VZ4725000	Sodium chloride	~0 - 2%	231-598-3 NA	No data available.
77-86-1 TY2900000	Tris 01-2119957659-16	~0 - 2%	201-064-4 NA	No data available.

Section 4. First Aid Measures

4.1	Description of First Aid	No data available.
	Measures:	
	In Case of Inhalation:	Move person to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.
		Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Section 5. Fire Fighting Measures

5.1	Suitable Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.			
	Unsuitable Extinguishing	A solid water stream may be inefficient	ent.		
	Media:				
5.2 Flammable Properties and No data available.					
Hazards:					
	Flash Pt:	No data.			
	Explosive Limits:	LEL: No data.	UEL: No data.		
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approvedor equivalent), and full protective gear to prevent contact with skin and eyes.			



			Section 6. A	Accidental Releas	se Measures			
6.1 6.2 6.3	Protec Emerg Enviro Precau Methoo	ency Procedures: nmental itions: ds and Material Fo	nd As conditions war and appropriate p Take steps to avo or Contain spill and o ingTransfer to a cher	ersonal protection (rubber id release into the environ collect, as appropriate. nical waste container for d	ved self-contained breathing app boots, safety goggles, and heav	vy rubber gloves). regulations.		
				7. Handling and	Storage			
7.2 Precautions To Be Taken Keep container tig			Avoid prolonged o n Keep container tig Store in accordance	r repeated exposure. htly closed. ce with information listed o	n the product insert.			
			ction 8. Expo	sure Controls/Pe	rsonal Protection			
8.1 CAS		re Parameters: Partial Chemica	al Name	Britain EH40	France VL	Europe		
9001	-91-6	Human Glu-Plas	minogen	No data.	No data.	No data.		
764	7-14-5	Sodium Chloride Tris		No data. TWA: 5.0 mg/m3	No data. TWA: 5 mg/m3	No data.		
77	7-86-1					No data.		
CAS	#	Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits		
9001·	-91-6	Human Glu-Plas	minogen	No data.	No data.	No data.		
764	7-14-5	Sodium Chloride Tris		No data.	No data.	No data.		
77	7-86-1			TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	No data.		
8.2 8.2.1 8.2.2	Engine (Ventila Persor	ation etc.):	ontrols Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne c.): levels below recommended exposure limits. oction equipment: limits					
		tive Gloves: Protective Clothin	•	cal-resistant gloves				
	(Specif	atory Equipment fy Type):		respirator, as conditions wa	arrant.			
	Work/H ce Prac		n Do not take interna Facilities storing o Wash thoroughly a No data available.	r utilizing this material sho after handling.	uld be equipped with an eyewas	h and a safety showe		

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9.1		00000	119. FI	ysical and Che	mical Pr	operlies			
9.1 Information on Basic Physical and Chemical Properties									
	Physical	l States:	[] Gas	[X] Liquid (frozen)	[X] Solid ((Lyophilized)			
	Appeara	ince and Odor:	Solid						
	Melting	Point:	No data.						
	Boiling I	Point:	No data.						
	Flash Pt	:	No data.						
	Evapora	tion Rate:	No data.						
	Explosiv	ve Limits:	LEL: No o	data.	UEL: No	data.			
	Vapor Pi Hg):	ressure (vs. Air or mm	n No data.						
		ensity (vs. Air = 1):	No data.						
	Specific	Gravity (Water = 1):	No data.						
	Solubilit	y in Water:	No data.						
	Autoigni	ition Pt:	No data.						
9.2	Other Inf	ormation							
	Percent	Volatile:	No data.						
		ç	Section	10. Stability and	d Reactiv	/ity			
10.1	Reactivi	Reactivity: No data available.							
10.2	Stability: Unstable [] Stable [X]								
10.3									
	Polymer	ization: Will o	ccur []	Will not occur [X]					
10.4									
10.5	Incompa	atibility - Materials No da	ata available						
	To Avoid	d:							
10.6	Hazardo	us No da	ita available						
	Decomp	osition Or							
	Byprodu	icts:							
		Se	ection 1	1. Toxicological	l Informa	ition			
11.1	.1 Information on The toxicological effects of this product have not been thoroughly studied.								
		ogical Effects:	-						
CAS # Hazardous Componen		ts (Chemic	al Name)	NTP	IARC	ACGIH	OSHA		
9001-91-6 Human Glu-Pla		Human Glu-Plasminoge	n		n.a.	n.a.	n.a.	n.a.	
764	7-14-5	Sodium Chloride			n.a.	n.a.	n.a.	n.a.	
77.	-86-1	Tris			n.a.	n.a.	n.a.	n.a.	





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Section 12. Ecological Information					
12.1	Toxicity:	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.			
12.2	Persistence and Degradability:	No data available.			
12.3	Bioaccumulative Potential:	No data available.			
12.4 12.5	Results of PBT and vPvB	No data available. No data available.			
12.6	assessment: Other adverse effects:	No data available			



	Section 13. Dispos	sal Considera	tions						
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.									
Section 14. Transport Information									
14.1 LAND 1									
DOT Prope	r Shipping Name: Not dangerous goods.								
DOT Hazar	d Class:								
UN/NA Nur	nber:								
14.1 LAND T	RANSPORT (European ADR/RID):								
ADR/RID S	hipping Name: Not dangerous goods.								
UN Numbe	er:								
Hazard Cla	ISS:								
14.3 AIR TR	ANSPORT (ICAO/IATA):								
ICAO/IATA	Shipping Name: Not dangerous goods.								
Additional Tra	nsport Transport in accordance with lo	ocal, state, and federa	al regulations.						
Information:									
	Section 15. Regu	latory Informa	ition						
EPA SARA (Sı	perfund Amendments and Reauthorization Act	of 1986) Lists							
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
9001-91-6	Human Glu-Plasminogen	No	No	No					
7647-14-5	Sodium Chloride	No	No	No					
77-86-1	Tris	No	No	Yes-Cat. N106					
CAS #	Hazardous Components (Chemical Name)	Other US EPA or	State Lists						
9001-91-6	Human Glu-Plasminogen	CAA HAP,ODC: No Inventory; CA PR	; CWA NPDES: No; T OP.65: No	SCA: Yes -					
7647-14-5	Sodium chloride	CAA HAP,ODC: No PROP.65: No	; CWA NPDES: No; T	SCA: No; CA					
77-86-1	Tris	CAA HAP,ODC: No PROP.65: No	; CWA NPDES: No; T	SCA: No; CA					
Regulatory Info	Drmation This SDS was prepared in acco	I ardanco with 20 CEP	1010 1200 and Pogu	lation (EC)					
Statement:	No.1272/2008.		1910.1200 and Regu						
	Section 16. Ot	her Informatio	n						
Additional Info									
This Product:	indian About No data avaliable.								
	cy or Disclaimer: DISCLAIMER: This information is	s believed to be accur	ate and represents th	e best information					
currently available to us. However, we make no warranty of merchantability or any other warranty,									
	express or implied, with respect to such information, and we assume no liability resulting from its								
	use. Users should make their o	wn investigations to o	letermine the suitabili	ty of the information for					
their particular purposes.									