

	acc	ording to Regulation (EC) No. 1907/2006 as am	ended by (EC) No. 1272/2008				
	Section 1. Identification of the Substance/Mixture and of the Company/Undertaking						
1.1	Product Code: Product Name:	Hplasmin Human Plasmin					
1.2			icad against				
1.2		the substance or mixture and uses adv	ised against:				
	Relevant identified uses:	,					
1.3	Details of the Supplier of t Company Name:	he Safety Data Sheet: Enzyme Research Laboratories 1801 Commerce Dr. South Bend, IN 46628					
	Web site address:	www.enzymeresearch.com					
1.4	Emergency telephone num						
	Emergency Contact:	Within USA and Canada: Outside USA and Canada:	+1 (800) 729-5270 +1 (574) 288-2268				
		Section 2. Hazards Ide	entification				
2.1	Classification of the Subst	ance or Mixture:					
	2.1.1 Classification ad	cording to Regulation (EC) No 1272/200	08 [CLP]:				
2.2	Label Elements:						
	2.2.1 Labeling accord	ing to Regulation (EC) No 1272/2008 [Cl	_P]:				
	GHS Signal Word:						
	GHS Hazard Phrases:						
	Based on evaluation of cu GHS Precaution Phrases	rrently available data this substance or mix ::	ture is not classifiable according to GHS.				
	No phrases apply.						
	GHS Response Phrases						
	No phrases apply.						
	GHS Storage and Dispos	al Phrases:					
	Please refer to Section 7 f	or Storage and Section 13 for Disposal info	ormation				



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# SAFETY DATA SHEET Human Plasmin

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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
9001-90-5 NA	Human Plasmin	~48 - 49%	NA NA	No data available.
7365-45-9 TL6809000	HEPES	~0 - 2%	230-907-9 NA	No data available.
127-09-3 AJ4300010	Sodium Acetate	~1 - 2%	204-823-8 NA	No data available.
56-81-5 MA8050000	Glycerol 01-2119471987-18	~50%	200-289-5 NA	No data available.

		Section 4. First Aid Measures					
4.1	Description of First Aid Measures:	No data available.					
	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	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media:	Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishing	<b>g</b> A solid water stream may be inefficient.					
	Media:						
5.2	Flammable Properties an	id No data available.					
	Hazards:						
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Autoignition Pt:	No data.					
5.3	Fire Fighting Instructions	<b>s:</b> As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.					



			Section 6. A	ccidental Release N	leasures			
6.1	<ul> <li>Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.</li> <li>Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).</li> </ul>							
6.2	Environmental       Take steps to avoid release into the environment, if safe to do so.         Precautions:							
5.3	<ul> <li>Methods and Material For Contain spill and collect, as appropriate.</li> <li>Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.</li> <li>Up: After removal, flush contaminated area and all cleaning materials with a 10% bleach aqueou solution.</li> </ul>							
			Section	7. Handling and Sto	orage			
7.1	Precautions To Be Taken       Avoid breathing dust/fume/gas/mist/vapours/spray.         in Handling:       Avoid prolonged or repeated exposure.         Precautions To Be Taken       Keep container tightly closed.         in Storing:       Store in accordance with information listed on the product insert.         Section 8.       Exposure Controls/Personal Protection							
3.1 CAS		re Parameters: Partial Chemica	al Nama	Britain EH40	France VL	Europa		
9001-		Human Plasmin				Europe		
7365-		Human Plasmin HEPES		No data.	No data.	No data.		
				No data.	No data.	No data.		
	/-09-3	Sodium Acetate		No data.	No data.	No data.		
56-81		Glycerol		TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.		
CAS		Partial Chemica		OSHA TWA	ACGIH TWA	Other Limits		
9001-		Human Plasmin		No data.	No data.	No data.		
7365-	-45-9	HEPES		No data.	No data.	No data.		
	′-09-3	Sodium Acetate		No data.	No data.	No data.		
56-81	1-5	Glycerol		PEL: 15 (dust); 5 (resp.) mg/m	3 TLV: 10 mg/m3	No data.		
3.2 3.2.1 3.2.2	Exposure Controls:       Engineering Controls       Use process enclosures, local exhaust ventilation, or other engineering controls to control airbor         (Ventilation etc.):       levels below recommended exposure limits.         Personal protection equipment:         Eye Protection:       Safety glasses         Protective Gloves:       Compatible chemical-resistant gloves							
	Other Protective Clothing:Lab coat         Respiratory Equipment NIOSH approved respirator, as conditions warrant.         (Specify Type):         We define the first of the							
	ce Prac		Wash thoroughly a	utilizing this material should be	e equipped with an eyew	vash and a safety show		
	No data available.							



		Sect	ion 9. Pl	nysical and Che	mical P	roperties		
9.1	Informat	ion on Basic Physical	and Chemic	al Properties				
	Physica	l States:	[] Gas	[ X ] Liquid (frozen)	[ ] Solid	(Lyophilized)		
	Appeara	ince and Odor:	Solid					
	Melting	Point:	No data.					
	Boiling	Point:	No data.					
	Flash Pt		No data.					
	Evapora	tion Rate:	No data.					
	Explosiv	/e Limits:	LEL: No	data.	UEL: No	o data.		
	Vapor P	ressure (vs. Air or mr	n No data.					
	Hg):							
	Vapor D	ensity (vs. Air = 1):	No data.					
	Specific	Gravity (Water = 1	1): No data.					
	Solubilit	y in Water:	No data.					
	Autoign	ition Pt:	No data.					
).2	Other Inf	ormation						
	Percent	Volatile:	No data.					
			Section	10. Stability an	d Reacti	vity		
0.1	Reactivi	ty: No	data available	<b>)</b> .				
0.2	Stability	: Un	stable [ ]	Stable [ X ]				
0.3	Stability	Note(s): Sta	ble if stored ir	n accordance with inform	nation listed	on the product	insert.	
	Polymer	<b>ization:</b> Wil	l occur [ ]	Will not occur [ X ]				
0.4	Conditio	ons To Avoid: No	data available	9.				
0.5	Incompa	atibility - Materials No	data available	9.				
	To Avoi	d:						
0.6	Hazardo	No No	data available	9.				
	Decomp	osition Or						
	Byprodu	ucts:						
			Section 1	1. Toxicologica	l Informa	ation		
1.1	Informat			effects of this product h			udied.	
	Toxicological Effects:							
		-						
CAS	#	Hazardous Compon	ents (Chemic	al Name)	NTP	IARC	ACGIH	OSHA
001-	90-5	Human Plasmin			n.a.	n.a.	n.a.	n.a.
365-	45-9	HEPES			n.a.	n.a.	n.a.	n.a.
		Sodium Acetate			n.a.	n.a.	n.a.	n.a.
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	Global Coag					
	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	Mobility in Soil: Results of PBT and vPvB	No data available. No data available.				
12.6	assessment: Other adverse effects:	No data available				



	Section 13. Disp	osal Considera	ations				
<b>13.1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.							
	Section 14. Tra	ansport Informa	ation				
14.1 LAND	TRANSPORT (US DOT):						
DOT Prop	er Shipping Name: Not dangerous goods.						
DOT Haza	rd Class:						
UN/NA Nu	mber:						
	TRANSPORT (European ADR/RID):						
	Shipping Name: Not dangerous goods.						
UN Numbe							
Hazard Cl							
	ANSPORT (ICAO/IATA): A Shipping Name: Not dangerous goods.						
Additional Tra		local state and fode	ral regulations				
Information:	insport mansport in accordance with	nocal, state, and lede	rai regulations.				
	Section 15 Dec	ulatory Inform	ation				
	Section 15. Reg		alion				
•	uperfund Amendments and Reauthorization A	-					
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
9001-90-5	Human Plasmin	No	No	No			
7365-45-9	HEPES	No	No	No			
127-09-3	Sodium Acetate	No	No	No			
56-81-5	Glycerol	No	No	No			
CAS #	Hazardous Components (Chemical Name)	Other US EPA o	r State Lists				
9001-90-5	Human Plasmin	CAA HAP,ODC: N Inventory; CA PF	o; CWA NPDES: No; <sup>-</sup> ROP.65: No	TSCA: Yes -			
7365-45-9	HEPES	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No; <sup>-</sup>	TSCA: No; CA			
127-09-3	Sodium Acetate	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No;	TSCA: No; CA			
56-81-5	Glycerol	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No; <sup>-</sup>	TSCA: No; CA			
Regulatory Inf Statement:	This SDS was prepared in ac No.1272/2008.	ccordance with 29 CFF	R 1910.1200 and Regu	ulation (EC)			
	Section 16. C	ther Information	on				
Additional Info	ormation About No data available.						
This Product:							
<b>Company Policy or Disclaimer:</b> DISCLAIMER: This information is believed to be accurate and represents the 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 own investigations to determine the suitability of the information for their particular purposes.							