

		cording to Regulation (EC) No. 1907/2006 as ame				
	Section 1.	Identification of the Substance/Mixture a	and of the Company/Undertaking			
.1	Product Code:	HPK 1302				
	Product Name:	Human Prekallikrein				
.2	Relevant identified uses o	f the substance or mixture and uses advi	ised against:			
Relevant identified uses: For research use only.						
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				
.4	Emergency telephone nun	nber:				
	Emergency Contact:	Within USA and Canada:	+1 (800) 729-5270			
		Outside USA and Canada:	+1 (574) 288-2268			
		Section 2. Hazards Ide	entification			
2.1	Classification of the Subs	ance or Mixture:				
	2.1.1 Classification a	ccording to Regulation (EC) No 1272/2008	8 [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 mixt s:	ure is not classifiable according to GHS.			
	No phrases apply.					
	GHS Response Phrases	:				
	No phrases apply.					
	GHS Storage and Dispos	sal Phrases:				
	Please refer to Section 7 1	or Storage and Section 13 for Disposal info	rmation			
		5				



		e Human Health and Symptoms:		n, ingestion, or skin viratory system irrita e, the toxicological	absorption. ation. properties have no	t been thoroughly investigated		
			tion 3. Composition	/Information	on Ingredie	ents		
CAS RTEC		Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
NA NA		Human Prekallikre	ein	~98 - 99%	NA NA	No data available.		
	'-14-5 '25000	Sodium chloride		~1 - 2%	231-598-3 NA	No data available.		
127-0 \J430)9-3)0010	Sodium Acetate		~0 - 0.5%	204-823-8 NA	No data available.		
			Section 4. Fi	rst Aid Meas	sures			
 Description of First Aid Measures: In Case of Inhalation: In Case of Skin Contact: In Case of Eye Contact: 		res: e of Inhalation: e of Skin Contact: e of Eye Contact:	No data available. Move person to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. 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. Flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.					
	In Case	e of Ingestion:	Wash out mouth with water p unconscious person. Get me medical personnel.	•	•	ive anything by mouth to an ng unless directed to do so by		
			Section 5. Fire	Fighting Me	easures			
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 A solid water stream may be inefficient. Media: Media:				l spray.				
5.2	Flamm Hazard	-	d No data available.					
	-	Pt: ive Limits: nition Pt:	No data. LEL: No data. No data.	UEL: No o	data.			
	5.3 Fire Fighting Instructions: As in any fire, wear self-contained brea equivalent), and full protective gear to p			tained breathing ap	paratus pressure-o	demand (NIOSH approved or		



5.1				ccidental Releas	se measures			
6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.								
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathin						apparatus, or respirator,		
	Emerge	ency Procedures:	and appropriate pe	ersonal protection (rubber	boots, safety goggles, and he	eavy rubber gloves).		
6.2 Environmental Take steps to avoid release into the environment, if safe to do so.								
	Precau	tions:						
6.3			or Contain spill and c					
		nment and Cleani	•		lisposal in accordance with lo			
	Up:		solution.	n contaminated area and	all cleaning materials with a 1	10% bleach aqueous		
				7 Handling and	Storago			
				7. Handling and	v			
7.1			•	st/fume/gas/mist/vapours/	/spray.			
	in Hand			repeated exposure.				
7.2			n Keep container tigh	itly closed. e with information listed o	on the product insert			
	in Stori	ing:			in the product insert.			
			ction 8. Expos	ure Controls/Pe	rsonal Protection			
8.1 CAS #		re Parameters: Partial Chemica	al Name	Britain EH40	France VL	Europe		
NA		Human Prekallik	rein	No data.	No data.	No data.		
7647	7-14-5	Sodium Chloride	;	No data.	No data.	No data.		
127	-09-3	Sodium Acetate		No data.	No data.	No data.		
CAS		Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits		
NA		Human Prekallik	rein	No data.	No data.	No data.		
7647	7-14-5	Sodium Chloride		No data.	No data.	No data.		
127	-09-3	Sodium Acetate		No data.	No data.	No data.		
8.2	Exposu	re Controls:				I		
8.2.1	Engine	ering Controls	Use process enclos	sures, local exhaust venti	lation, or other engineering co	ontrols to control airborne		
	(Ventila	ation etc.):	levels below recom	mended exposure limits.				
8.2.2	Person	al protection equ	ipment:					
	Eye Protection: Safety glasses							
	Protective Gloves: Compatible chemical			al-resistant gloves				
	Other F	Protective Clothin	g: Lab coat					
				espirator, as conditions w	arrant.			
	(Specify Type):							
	· · · · · · · · · · · · · · · · · · ·			utilizing this material sho	uld be equipped with an eyew	ash and a safety shower		
			Wash thoroughly a	fter handling.				
			No data available.					



		Sect	ion 9. Pl	nysical and Che	emical P	roperties		
9.1	Information on Basic Physical and Chemical Properties							
	Physical	States:	[] Gas	[X] Liquid (frozen)	[X] Solid	(Lyophilized)		
	Appeara	nce 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	data.	UEL: No	o data.		
	Vapor Pı Hg):	ressure (vs. Air or mn	n No data.					
		ensity (vs. Air = 1):	No data.					
	-	Gravity (Water = 1): No data.					
		y in Water:	, No data.					
	Autoigni	-	No data.					
9.2	Other Inf							
	Percent	Volatile:	No data.					
			Section	10. Stability an	d Reacti	vity		
10.1	Reactivi	ivity: No data available.						
10.2	Stability	-						
10.3	Stability	Note(s): Sta	ble if stored ir	n accordance with inform	nation listed	on the product	insert.	
	Polymer	ization: Will	occur[]	Will not occur [X]				
10.4	Conditio	ons To Avoid: No	data available	Э.				
10.5	Incompa	tibility - Materials No	data available	2 .				
	To Avoid	:						
10.6	Hazardo	us No	data available	Э.				
	Decomp	osition Or						
	Byprodu	icts:						
			Section 1	1. Toxicologica	I Informa	ation		
11.1 Information on The toxicological effects of this product have not been thoroughly stu						udied.		
	Toxicolo	gical Effects:						
		1						
CAS	#	Hazardous Compone	ents (Chemic	cal Name)	NTP	IARC	ACGIH	OSHA
NA		Human Prekallikrein			n.a.	n.a.	n.a.	n.a.
764	17-14-5	Sodium Chloride			n.a.	n.a.	n.a.	n.a.
127	7-09-3	Sodium Acetate			n.a.	n.a.	n.a.	n.a.



	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. Disposal Considerations										
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.										
Section 14. Transport Information										
14.1 LAND TRANSPORT (US DOT):										
DOT Prope	r Shipping Name	: Not dangerous goods.								
DOT Hazar	DOT Hazard Class:									
	UN/NA Number:									
	RANSPORT (Eur									
UN Numbe	hipping Name: r [.]	Not dangerous goods.								
Hazard Cla										
14.3 AIR TR	ANSPORT (ICAO/	IATA):								
ICAO/IATA	Shipping Name:	Not dangerous goods.								
Additional Trai	nsport	Transport in accordance with loo	cal, state, and federa	l regulations.						
Information:										
		Section 15. Regul	atory Informa	tion						
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act o	of 1986) Lists	-						
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
NA	Human Prekallikr	rein	No	No	No					
7647-14-5	Sodium Chloride		No	Νο	No					
127-09-3	Sodium Acetate		No	No	No					
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or §	r US EPA or State Lists						
NA	Human Prekallikr	rein	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No							
7647-14-5	Sodium chloride		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No							
127-09-3	Sodium Acetate	ate CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No								
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFR ²	1910.1200 and Regul	ation (EC)					
Statement:		No.1272/2008.		-						
Section 16. Other Information										
Additional Info	rmation About	No data available.								
This Product:										
Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information										
		currently available to us. However		-						
		express or implied, with respect								
		their particular purposes.	nake their own investigations to determine the suitability of the information for oses.							
					Multi-region format					