

			nded by (EC) No. 1272/2008						
	Section 1.	Identification of the Substance/Mixture a	nd of the Company/Undertaking						
.1	Product Code:	НРКа 1303							
	Product Name:	Human Kallikrein							
.2	Relevant identified uses o	f the substance or mixture and uses advis	sed against:						
	Relevant identified uses: For research use only.								
1.3	Details of the Supplier of t Company Name:	Enzyme Research Laboratories 1801 Commerce Dr. South Bend, IN 46628							
	Web site address:	www.enzymeresearch.com							
.4	Emergency telephone nur								
	Emergency Contact:	Within USA and Canada: Outside USA and Canada:	+1 (800) 729-5270 +1 (574) 288-2268						
		Section 2. Hazards Ide	ntification						
2.1	Classification of the Subs	tance or Mixture:							
	2.1.1 Classification a	ccording to Regulation (EC) No 1272/2008	[CLP]:						
2.2	Label Elements:								
	2.2.1 Labeling accord	ding to Regulation (EC) No 1272/2008 [CLF	יו:						
	GHS Signal Word:		-						
•									
	GHS Hazard Phrases:								
		urrently available data this substance or mixtu s:	ire is not classifiable according to GHS.						
	Based on evaluation of cu		re is not classifiable according to GHS.						
	Based on evaluation of cu GHS Precaution Phrase	s:	re is not classifiable according to GHS.						
	Based on evaluation of cu GHS Precaution Phrase No phrases apply.	s:	re is not classifiable according to GHS.						
	Based on evaluation of cu GHS Precaution Phrase No phrases apply. GHS Response Phrases	s:	re is not classifiable according to GHS.						
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							
	Based on evaluation of cu GHS Precaution Phrases No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	s: :: sal Phrases:							



		and Symptoms:	May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge	iratory system irrita	ation.	t been thoroughly investigated
		Sec	tion 3. Composition	/Information	on Ingredie	nts
CAS RTEC		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
9001- NA	01-8	Human Kallikrein		~98 - 99%	NA NA	No data available.
	-14-5 '25000	Sodium chloride		~1 - 2%	231-598-3 NA	No data available.
127-0 4J430		Sodium Acetate		~0 - 0.5%	204-823-8 NA	No data available.
			Section 4. Fi	rst Aid Meas	sures	·
4.1	Measu		No data available.			
	In Case of Inhalation: Move person to fresh air. If personnel. Get immediate medical atte				artificial respiration	or give oxygen by trained
	In Case of Skin Contact: Immediately wash skin with s clothing. Get medical attention					
	In Case of Eye Contact: Flush eyes with plenty of w medical personnel.			er for at least 15 m	inutes. Have eyes	examined and tested by
	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	Suitabl Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-e		-	spray.
	Unsuita Media:		A solid water stream may be	inefficient.		
5.2	Flamm Hazard	-	d No data available.			
	Flash F	Pt:	No data.			
	-	ive Limits:	LEL: No data.	UEL: No o	data.	
	-	nition Pt:	No data.			
5.3 Fire Fighting Instructions: As in any fir equivalent),		: As in any fire, wear self-cont equivalent), and full protectiv				



			Section 6. A	ccidental Releas	se Measures	
6.1		tive Precautions,	-	reathing dust, and provid		
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contain						
	-	ency Procedures:			boots, safety goggles, and h	eavy rubber gloves).
6.2		nmental	Take steps to avoid	I release into the environ	iment, if safe to do so.	
~ ~	Precau			U		
6.3			or Contain spill and co		lisposal in accordance with lo	cal regulations
	Up:		•		all cleaning materials with a 2	
			Section 7	. Handling and	Storage	
7.1	Precau	itions To Be Take	n Avoid breathing dus	t/fume/gas/mist/vapours	/spray.	
	in Han	dling:	Avoid prolonged or	repeated exposure.		
7.2	Precau	itions To Be Take	n Keep container tight	-		
	in Stor	ing:	Store in accordance	with information listed c	on the product insert.	
		Sec	tion 8. Expos	ure Controls/Pe	rsonal Protection	
8.1 CAS		ure Parameters: Partial Chemica	Il Name	Britain EH40	France VL	Europe
	-01-8	Human Kallikreir		No data.	No data.	No data.
764	17-14-5	Sodium Chloride		No data.	No data.	No data.
	7-09-3	Sodium Acetate		No data.	No data.	No data.
CAS		Partial Chemica	Il Name	OSHA TWA	ACGIH TWA	Other Limits
9001	-01-8	Human Kallikreir	1	No data.	No data.	No data.
764	17-14-5	Sodium Chloride		No data.	No data.	No data.
127	7-09-3	Sodium Acetate		No data.	No data.	No data.
8.2	Exposu	re Controls:				
8.2.1	Engine	ering Controls	Use process enclos	ures, local exhaust venti	lation, or other engineering co	ontrols to control airborne
	(Ventil	ation etc.):	levels below recomr	mended exposure limits.		
8.2.2	Persor	nal protection equ	ipment:			
	Eye Protection: Safety glasses					
		tive Gloves:	Compatible chemica	al-resistant gloves		
		Protective Clothin	-			
	-	atory Equipment fy Type):	NIOSH approved re	spirator, as conditions w	arrant.	
	Work/Hygienic/Maintenan Do not take internally.					
	ce Practices: Facilities storing or u			utilizing this material sho	uld be equipped with an eyew	vash and a safety showe
			Wash thoroughly aft No data available.	ler nanuling.		



		Sec	tion 9. Ph	nysical and Che	emical Pi	roperties				
).1	Informati	ion on Basic Physic	al and Chemic	al Properties						
	Physica	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.	No data.						
	Evapora	tion Rate:	No data.							
	Explosiv	/e Limits:	LEL: No	LEL: No data. UEL: No data.						
	Vapor P Hg):	ressure (vs. Air or m	nm No data.							
		ensity (vs. Air = 1):	No data.							
	-	Gravity (Water =								
	-	ty in Water:	No data.							
	Autoign	-	No data.							
	-		NU Uala.							
.2		ormation								
	Percent	Volatile:	No data.							
			Section	10. Stability an	d Reacti	vity				
0.1	Reactivi	ty: No	o data available	9.						
0.2	Stability	: U	nstable []	Stable [X]						
0.3	Stability	Note(s): St	table if stored in	accordance with inforr	nation listed of	on the product	insert.			
	Polymer	rization: W	/ill occur []	Will not occur [X]						
0.4	Conditio	ons To Avoid: No	o data available	<u>).</u>						
0.5	Incompa	atibility - Materials N	o data available	9.						
	To Avoi	d:								
0.6	Hazardo	ous No	o data available	9.						
	Decomp	osition Or								
	Byprodu	icts:								
			Section 1	1. Toxicologica	l Informa	ation				
11.1 Information on The toxicological effects of this product have not been thorough					n thoroughly st	udied.				
	Toxicolo	ogical Effects:								
CAS	#	Hazardous Compo	nents (Chemic	al Name)	NTP	IARC	ACGIH	OSHA		
9001-01-8		Human Kallikrein			n.a.	n.a.	n.a.	n.a.		
1001-								1		
	7-14-5	Sodium Chloride			n.a.	n.a.	n.a.	n.a.		



. .

Page: 5 of 6

	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			



Page: 6 of 6

		Section 13. Dispo	sal Considera	tions						
13.1 Waste	3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.									
	Section 14. Transport Information									
14.1 LAND	· · · · · · · · · · · · · · · · · · ·									
DOT Prop	per Shipping Name	: Not dangerous goods.								
DOT Haza	ard Class:									
UN/NA Nu	umber:									
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):								
	Shipping Name:	Not dangerous goods.								
UN Numb										
Hazard C		// A T A \.								
	RANSPORT (ICAO) A Shipping Name:									
Additional Tr		Transport in accordance with I	ocal state and federa	l regulations						
Information:				in regulatione.						
		Section 15. Regu	latorv Informa	tion						
FPA SARA (S	Superfund Amendr	nents and Reauthorization Act	, ,							
CAS #	-	nponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
9001-01-8	Human Kallikreir	1	No	No	No					
7647-14-5	Sodium Chloride	;	No	No	No					
127-09-3	Sodium Acetate		No	No	No					
CAS #	Hazardous Con	nponents (Chemical Name)	Other US EPA or	State Lists						
9001-01-8	Human Kallikreir	1		CWA NPDES: No; T	SCA: Yes -					
			Inventory; CA PR							
7647-14-5	Sodium chloride		CAA HAP,ODC: No PROP.65: No	; CWA NPDES: No; T	SCA: No; CA					
127-09-3	Sodium Acetate		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No							
Regulatory In Statement:	formation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFR	1910.1200 and Regu	lation (EC)					
		Section 16. Ot	her Informatio	n						
Additional Inf	ormation About	No data available.								
This Product:										
Company Pol	icy or Disclaimer:	DISCLAIMER: This information i	s believed to be accur	ate and represents th	e best information					
		currently available to us. Howe	ver, we make no warr	anty of merchantabili	ty or any other warranty,					
		express or implied, with respec								
		use. Users should make their of their particular purposes	own investigations to c	etermine the suitabili	ty of the information for					
		their particular purposes.								
					Multi-region format					