

	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:	HK 1300 Human Single Chain HMW Kininogen					
1.2	Relevant identified uses o	f the substance or mixture and uses adv	ised against:				
Relevant identified uses: For research use only.							
1.3	Details of the Supplier of t Company Name:	<b>he Safety Data Sheet:</b> Enzyme Research Laboratories 1801 Commerce Dr. South Bend, IN 46628					
	Web site address:	www.enzymeresearch.com					
1.4	Emergency telephone nun	nber:					
	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:					
		ccording to Regulation (EC) No 1272/200					
2.2	Label Elements:						
		ing to Regulation (EC) No 1272/2008 [CL	D1.				
	-		- ].				
	GHS Signal Word: GHS Hazard 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 Disposal Phrases:							
	Please refer to Section 7 f	or Storage and Section 13 for Disposal info	ormation				
		-					



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	Effects and Symptoms: May be harmful by inhalation May cause eye, skin, or resp			bable of transmitting infectious agents. n, ingestion, or skin absorption. piratory system irritation. le, the toxicological properties have not been thoroughly investigated				
		Sec	tion 3. Compositior	n/Information	on Ingredie	ents		
CAS RTEC		Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration           ~98 - 99%           ~1 - 2%           ~0 - 0.5%	EC No./ EC Index No.	GHS Classification		
NA JA		Human Single Ch	ain HMW Kininogen		NA NA	No data available.		
VZ47	'-14-5 '25000	Sodium chloride			231-598-3 NA	No data available.		
127-0 \J430	)9-3 )0010	Sodium Acetate			204-823-8 NA	No data available.		
			Section 4. Fi	rst Aid Meas	sures			
1.1	Descrij Measu	ption of First Aid res:	No data available.					
	In Case of Inhalation: Move person to fresh air. If i personnel. Get immediate medical atter				artificial respiration	or give oxygen by trained		
	In Case of Skin Contact: Immediately wash skin with s clothing. Get medical attention							
	In Case	e of Eye Contact:	Flush eyes with plenty of wat medical personnel.	h eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by ical personnel.				
_		e 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	e Fighting Me	easures			
5.1	Suitabl Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-		-	l spray.		
	Unsuita Media:	able Extinguishing	<b>g</b> A solid water stream may be	e inefficient.				
5.2	Flamm Hazard	-	<b>id</b> No data available.					
	-	ive Limits:	No data. LEL: No data. No data.	UEL: No	data.			
Autoignition Pt:No data.5.3Fire Fighting Instructions: As in any fire, wear self-contained breathing apparate equivalent), and full protective gear to prevent contained			pharatus pressure-	demand (NIOSH approved or				



			Section 6. Ac	cidental Relea	se Measures			
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								
6.3			or Contain spill and col	lect as appropriate				
0.0			-		disposal in accordance with lo	ocal regulations.		
	Up:		•		all cleaning materials with a			
			Section 7	. Handling and	Storage			
7.1	Precau in Hand		<ul> <li>Avoid breathing dust.</li> <li>Avoid prolonged or reader</li> </ul>		/spray.			
7.2		-	n Keep container tight					
	in Stor			with information listed o	on the product insert.			
		-			rsonal Protection			
8.1		re Parameters:	•	T	1	1		
CAS	#	Partial Chemica		Britain EH40	France VL	Europe		
NA		Human Single C	hain HMW Kininogen	No data.	No data.	No data.		
764	47-14-5	Sodium Chloride		No data.	No data.	No data.		
12	7-09-3	Sodium Acetate		No data.	No data.	No data.		
CAS	#	Partial Chemica	Il Name	OSHA TWA	ACGIH TWA	Other Limits		
NA		Human Single C	hain HMW Kininogen	No data.	No data.	No data.		
764	47-14-5	Sodium Chloride		No data.	No data.	No data.		
12	7-09-3	Sodium Acetate		No data.	No data.	No data.		
8.2	Exposu	re Controls:						
8.2.1	Engine	ering Controls	Use process enclosu	res, local exhaust venti	lation, or other engineering c	ontrols to control airborne		
	(Ventila	ation etc.):	levels below recomm	ended exposure limits.				
8.2.2		al protection equ	ipment:					
	-	otection:	Safety glasses					
		tive Gloves:	Compatible chemical	-resistant gloves				
		Protective Clothin	-					
	=	atory Equipment	NIOSH approved res	pirator, as conditions w	varrant.			
(Specify Type):								
Work/Hygienic/Maintenan Do not take internally.								
<b>ce Practices:</b> Facilities storing or utilizing this material should be equipped with an eyewash and a						wash and a safety showe		
	Wash thoroughly afte		er nanuling.					
			No data available.					



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	Section	on 9. Ph	nysical and Che	mical Pr	roperties			
9.1 Informa	ation on Basic Physical a	and Chemic	al Properties					
Physic	al States:	[]Gas	[ X ] Liquid (frozen)	[X] Solid	(Lyophilized)			
Appea	rance and Odor:	Solid						
Melting	g Point:	No data.						
Boiling	g Point:	No data. No data. No data.						
Flash I	Pt:							
Evapo	ration Rate:							
Explos	sive Limits:	LEL: No	data.	UEL: No	UEL: No data.			
Vapor Hg):	Pressure (vs. Air or mm	No data.						
	Density (vs. Air = 1):	No data.						
-	ic Gravity (Water = 1)	: No data.						
Solubi	lity in Water:	No data.						
Autoig	nition Pt:	No data.						
0.2 Other li	nformation							
	nt Volatile:	No data.						
		Section	10. Stability and	d Reacti	vity			
0.1 Reactiv	vity: No d	lata available	9.					
0.2 Stabili	<b>ty:</b> Unst	able [ ]	Stable [ X ]					
<b>10.3 Stability Note(s):</b> Stable if stored in accordance with information listed on the product insert.						insert.		
Polym	erization: Will	occur [ ]	Will not occur [ X ]					
0.4 Condit	ions To Avoid: No d	lata available	9.					
0.5 Incom	patibility - Materials No c	lata available	<b>)</b> .					
Το Ανα	pid:							
0.6 Hazaro		lata available	<u>).</u>					
Decom	position Or							
Byproo	ducts:							
	S	ection 1	1. Toxicologica	I Informa	ation			
1.1 Inform	ation on The	toxicological	effects of this product h	ave not beer	n thoroughly st	udied.		
Toxico	logical Effects:							
CAS #	Hazardous Compone		-	NTP	IARC	ACGIH	OSHA	
NA	Human Single Chain H	MW Kininog	en	n.a.	n.a.	n.a.	n.a.	
7647-14-5 Sodium Chloride				n.a.	n.a.	n.a.	n.a.	
/04/-14-0							mai	



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Section 12. Ecological Information						
12.1	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 assessment:	No data available. No data available.				
12.6	Other adverse effects:	No data available				



P									
	Section 13. Dispo	sal Considerat	tions						
<b>13.1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.									
Section 14. Transport Information									
14.1 LAND	TRANSPORT (US DOT):								
DOT Prop	per Shipping Name: Not dangerous goods.								
DOT Haza	ard Class:								
UN/NA Nu	imber:								
14.1 LAND	TRANSPORT (European ADR/RID):								
ADR/RID	Shipping Name: Not dangerous goods.								
UN Numb	er:								
Hazard Cl	ass:								
	RANSPORT (ICAO/IATA):								
	A Shipping Name: Not dangerous goods.								
Additional Tra	ansport Transport in accordance with le	ocal, state, and federa	l regulations.						
Information:									
	Section 15. Regu	llatory Informa	tion						
EPA SARA (S	Superfund Amendments and Reauthorization Act	of 1986) Lists		-					
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
NA	Human Single Chain HMW Kininogen	No	No	No					
7647-14-5	Sodium Chloride	No	No	No					
127-09-3	Sodium Acetate	No	No	No					
CAS #	Hazardous Components (Chemical Name)	Other US EPA or	State Lists						
NA	Human Single Chain HMW Kininogen	CAA HAP,ODC: No; Inventory; CA PRC	CWA NPDES: No; T DP.65: No	SCA: Yes -					
7647-14-5	7647-14-5 Sodium chloride CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No								
127-09-3	127-09-3 Sodium Acetate CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No								
Regulatory In	formation This SDS was prepared in acc	ordance with 29 CFR	1910,1200 and Requ	lation (FC)					
Regulatory InformationThis SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)Statement:No.1272/2008.									
Section 16. Other Information									
Additional Information 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.								

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