

	ac	cording to Regulation (EC) No. 1907/2006 as amer	nded by (EC) No. 1272/2008				
	Section 1.	Identification of the Substance/Mixture and	nd of the Company/Undertaking				
.1	Product Code:	HFVIIai					
	Product Name:	Human Factor VIIa Inactivated					
2	Relevant identified uses o	f the substance or mixture and uses advis	sed against:				
	Relevant identified uses	For research use only.					
.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 nur						
	Emergency Contact:	Within USA and Canada:	+1 (800) 729-5270				
		Outside USA and Canada:	+1 (574) 288-2268				
		Section 2. Hazards Ide	ntification				
			nuncation				
.1	Classification of the Subs						
	2.1.1 Classification a	ccording to Regulation (EC) No 1272/2008	[CLP]:				
	Specific Target Organ T	oxicity (Single Exposure), Category 3					
	Eye Irritant, Category 2						
	Skin Irritant, Category 2						
.2	Label Elements:						
	2.2.1 Labeling accord	ling to Regulation (EC) No 1272/2008 [CLP	?]:				
	$\wedge$						
	•						
	$\mathbf{V}$						
	GHS Signal Word:	Warning					
	GHS Hazard Phrases:						
	H315: Causes skin irritatio H319: Causes serious ski						
	H335: May cause respiratory irritation.						
	GHS Precaution Phrases: P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.						
	P264: Wash hands thoroughly after handling						
	P280: Wear protective gloves/protective clothing/eye protection/face protection.						
	P305+351+338: IF IN EY and eas P304+340: IF INHALED: P332+313: If skin irritation P337+313: If eye irritation	: Wash with plenty of water ES: Rinse cautiously with water for several m y to do – continue rinsing. Remove victim to fresh air and keep at rest ir n occurs, get medical advice/attention. n occurs, get medical advice/attention. minated clothing and wash it before reuse.					
	GHS Storage and Dispo	-					
	site stange and plope						

Please refer to Section 7 for Storage and Section 13 for Disposal information



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2.3 Adverse Human Health Effects and Symptoms:			<ul> <li>Biohazard - Handle as if capable of transmitting infectious agents.</li> <li>Causes mild skin irritation.</li> <li>Material may be irritating to the mucous membranes and upper respiratory tract.</li> <li>May be harmful by inhalation, ingestion, or skin absorption.</li> <li>May cause eye or respiratory system irritation.</li> <li>To the best of our knowledge, the toxicological properties have not been thoroughly investigated</li> </ul>					
		Sec	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		
65312 NA	2-43-8	Human Factor VI	a Inactivated	~98 - 99%	633-213-8 NA	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335		
	-14-5 25000	Sodium chloride		~0 - 2%	231-598-3 NA	No data available.		
77-86 TY290		Tris 01-2119957659-1	6	~0 - 2%	201-064-4 NA	No data available.		
			Section 4. Fi	rst Aid Meas	ures			
4.1	Descrip Measur	otion of First Aid res:	No data available.					
In Case of Inhalation: Move person to fresh air. If not breathing, give artificial respersonnel.						or give oxygen by trained		
			Get immediate medical atten	tion.				
In Case of Skin Contact: Immediately wash skin with soap and								
			clothing. Get medical attentio		-			
	in Case	of Eye Contact:	medical personnel.	ater for at least 15 minutes. Have eyes examined and tested by				
	In Case of Ingestion: Wash out mouth with			ater provided person is conscious. Never give anything by mouth to an et medical attention. Do NOT induce vomiting unless directed to do so by				
			Section 5. Fire	Fighting Me	asures			
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, o	carbon dioxide, wat	er, or dry chemica	l spray.		
	Media:		Use water spray to cool fire-	exposed containers				
	Unsuita Media:	able Extinguishing	<b>g</b> A solid water stream may be	inefficient.				
5.2	Flamma Hazard	-	<b>nd</b> No data available.					
	Flash P	rt:	No data.					
	Explos	ive Limits:	LEL: No data.	UEL: No d	lata.			
	Autoig	nition Pt:	No data.					
5.3	5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved equivalent), and full protective gear to prevent contact with skin and eyes.							



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				Accidental Releas						
6.1 <b>Protective Precautions,</b> Avoid raising and breathing dust, and provide adequate ventilation.										
		ved self-contained breathing ap								
<b>Emergency Procedures:</b> and appropriate personal protection (rubber boots, safety goggles, and heavy										
5.2	EnvironmentalTake steps to avoid release into the environment, if safe to do so.Precautions:									
6.3	Methods	and Material Fo	or Contain spill and	collect, as appropriate.						
	Containn	Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.								
	Up:	After removal, flush contaminated area and all cleaning materials with a 10% bleach aqueous								
			solution.							
			Section	7. Handling and	Storage					
7.1	Precautio	ons To Be Take	<b>n</b> Avoid breathing du	ust/fume/gas/mist/vapours/	ˈspray.					
	in Handli	ng:	Avoid prolonged o	r repeated exposure.						
7.2	Precautio	ons To Be Take	<b>n</b> Keep container tig	htly closed.						
	in Storing	g:	Store in accordance	ce with information listed or	n the product insert.					
		Sec	ction 8 Expo	sure Controls/Per	rsonal Protection					
8.1	Exposure	Parameters:								
CAS		Partial Chemica	al Name	Britain EH40	France VL	Europe				
6531	2-43-8	Human Factor V	Ila Inactivated	No data.	No data.	No data.				
764	7-14-5	Sodium Chloride	9	No data.	No data.	No data.				
7	7-86-1	Tris		TWA: 5.0 mg/m3	TWA: 5 mg/m3	No data.				
CAS	#	Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits				
6531	2-43-8	Human Factor VIIa Inactivated		No data.	No data.	No data.				
764	7-14-5	Sodium Chloride Tris		No data.	No data.	No data.				
7	7-86-1			TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	No data.				
8.2	Exposure	Controls:								
8.2.1	Engineer	ing Controls	Use process enclo	osures, local exhaust ventil	ation, or other engineering cont	rols to control airborn				
	(Ventilati	-	-	mmended exposure limits.						
8.2.2	Personal	Personal protection equipment:								
		Eye Protection: Safety glasses								
				cal-resistant gloves						
	Other Pro									
		ory Equipment	-							
	(Specify									
	Work/Hygienic/Maintenan Do not take internally.									
	ce Practi	-		utilizing this material should be equipped with an eyewash and a safety showe						
			Wach thoroughly	Wash thoroughly after handling.						
			wash thoroughly a	alter handling.						



		Section	on 9. Pl	nysical and Che	emical Pr	operties		
9.1 Information on Basic Physical and Chemical Properties								
	Physical	States:	[] Gas	[ X ] Liquid (frozen)	[ ] Solid (	Lyophilized)		
	Appeara	nce and Odor:	Solid					
	Melting F	Point:	No data.					
	Boiling P	oint:	No data.					
	Flash Pt:		No data.					
	Evaporat	ion Rate:	No data.					
	Explosiv	e Limits:	LEL: No	data.	UEL: No	o data.		
	Vapor Pr Hg):	essure (vs. Air or mm	No data.					
	Vapor De	ensity (vs. Air = 1):	No data.					
	Specific	Gravity (Water = 1)	: No data.					
	Solubility	/ in Water:	No data.					
	Autoigni	tion Pt:	No data.					
9.2	Other Info	ormation						
	Percent	/olatile:	No data.					
			Section	10. Stability an	d Reactiv	vitv		
0.1	Section 10. Stability and Reactivity           Reactivity:         No data available.							
10.2	Stability:	5	able [ ]	Stable [ X ]				
0.3	Stability			accordance with inforr	nation listed c	on the product	insert.	
	Polymeri		occur [ ]	Will not occur [ X ]		ŗ		
10.4	-		ata available					
10.5		tibility - Materials No o						
	To Avoid	-						
10.6	Hazardo		ata available	2				
		osition Or						
	Byprodu							
			ection 1	1 Toxicologica	l Informa	ation		
1.1	Section 11. Toxicological Information           1.1 Information on         The toxicological effects of this product have not been thoroughly studied.							
11.1		gical Effects:	loxicological	enects of this product r	iave not been	i uloroughly st	uuleu.	
CAS #		Hazardous Compone	nts (Chemic	cal Name)	NTP	IARC	ACGIH	OSHA
	2-43-8	Human Factor VIIa Ina	•	-	n.a.	n.a.	n.a.	n.a.
	47-14-5	Sodium Chloride			n.a.	n.a.	n.a.	n.a.
7647-14-5					n.a.	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	Mobility in Soil: Results of PBT and vPvB	No data available. No data available.		
	assessment:			
12.6	Other adverse effects:	No data available		



Section 13. Disposal Considerations									
<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.								
_	ard Class:								
UN/NA Nu	umber:								
14.1 LAND	TRANSPORT (European ADR/RID):								
ADR/RID	Shipping Name: Not dangerous goods.								
UN Numb	er:								
Hazard C	lass:								
14.3 AIR TI	RANSPORT (ICAO/IATA):								
ICAO/IAT	A Shipping Name: Not dangerous goods.								
Additional Tr	ansport Transport in accordance with	local, state, and federa	al regulations.						
Information:									
	Section 15. Regu	ulatory Informa	ation						
EPA SARA (S	Superfund Amendments and Reauthorization Act	t of 1986) Lists							
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
65312-43-8	Human Factor VIIa Inactivated	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						
65312-43-8	Human Factor VIIa Inactivated	CAA HAP,ODC: No Inventory; CA PR	; CWA NPDES: No; <sup>-</sup> OP.65: No	TSCA: Yes -					
7647-14-5	7647-14-5 Sodium chloride CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No								
77-86-1	77-86-1     Tris     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 Regu	ulation (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 respe	ct to such information,	and we assume no li	iability resulting from its					
	use. Users should make their	own investigations to o	determine the suitabil	ity of the information for					
	their particular purposes.								