

		coording to Regulation (EC) No. 1907/2006 as ame					
	Section 1.	Identification of the Substance/Mixture a	nd of the Company/Undertaking				
.1	Product Code:	HP-GD					
	Product Name:	Human Prothrombin Des-Gla					
	Synonyms:	Human Factor II					
.2	Relevant identified uses of	of the substance or mixture and uses advi	sed against:				
	Relevant identified uses: For research use only.						
.3	Details of the Supplier of						
	Company Name:	Enzyme Research Laboratories					
		1801 Commerce Dr. South Bend, IN 46628					
	Web site address:	www.enzymeresearch.com					
.4		-					
.4	Emergency telephone nu Emergency Contact:	Within USA and Canada:	+1 (800) 729-5270				
	Emergency contact.	Outside USA and Canada:	+1 (574) 288-2268				
		Section 2. Hazards Ide	ntification				
		stance or Mixture: according to Regulation (EC) No 1272/2008	[CLP]:				
2.1 2.2	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: 						
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accorr GHS Signal Word: GHS Hazard Phrases: 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixto	?]:				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accorr GHS Signal Word: GHS Hazard Phrases: Based on evaluation of content of the second second	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixto	?]:				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of classical designment of classical d	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixto es:	?]:				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of condition of condition	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixto es:	?]:				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es:	?]:				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es:	']: ure is not classifiable according to GHS.				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: s:	']: ure is not classifiable according to GHS.				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: s:	']: ure is not classifiable according to GHS.				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: s:	']: ure is not classifiable according to GHS.				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: s:	']: ure is not classifiable according to GHS.				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: s:	']: ure is not classifiable according to GHS.				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: s:	']: ure is not classifiable according to GHS.				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: s:	']: ure is not classifiable according to GHS.				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: s:	']: ure is not classifiable according to GHS.				
	 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Disponent 	according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: s:	']: ure is not classifiable according to GHS.				



.

SAFETY DATA SHEET Human Prothrombin Des-Gla

2.3 Adverse Human Health Effects and Symptoms:

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

Biohazard - Handle as if capable of transmitting infectious agents.

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
9001-26-7 NA	Human Prothrombin Des-Gla	~98 - 99%	NA NA	No data available.
7647-14-5 VZ4725000	Sodium chloride	~0 - 2%	231-598-3 NA	No data available.
77-86-1 TY2900000	Tris 01-2119957659-16	~0 - 2%	201-064-4 NA	No data available.

Section 4. First Aid Measures

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



			Section 6. A	ccidental Releas	e Measures		
6.1	1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.						
	Protect	ive Equipment a	nd As conditions warr	ant, wear a NIOSH approv	ved self-contained breathing ap	paratus, or respirator,	
	Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber glove						
6.2	Enviror	imental	Take steps to avoi	id release into the environ	ment, if safe to do so.		
	Precaut	tions:					
6.3				ollect, as appropriate.			
	Contair	ment and Cleani	-		isposal in accordance with local		
	Up:			h contaminated area and	all cleaning materials with a 10%	% bleach aqueous	
			solution.				
			Section	7. Handling and	Storage		
7.1	Precaut	tions To Be Take	-	st/fume/gas/mist/vapours/	/spray.		
	in Hand	lling:	Avoid prolonged or	repeated exposure.			
7.2	Precaut	tions To Be Take	n Keep container tig	-			
	in Stori	ng:	Store in accordanc	e with information listed of	n the product insert.		
		Sec	ction 8. Expos	sure Controls/Per	rsonal Protection		
8.1	Exposu	re Parameters:	- 1				
CAS		Partial Chemica	al Name	Britain EH40	France VL	Europe	
9001	-26-7	Human Prothron	nbin Des-Gla	No data.	No data.	No data.	
764	7-14-5	Sodium Chloride	e	No data.	No data.	No data.	
77	'- 86-1	Tris		TWA: 5.0 mg/m3	TWA: 5 mg/m3	No data.	
CAS	#	Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits	
9001	-26-7	Human Prothron	nbin Des-Gla	No data.	No data.	No data.	
764	7-14-5	Sodium Chloride Tris		No data.	No data.	No data.	
77	'- 86-1			TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	No data.	
8.2	Exposu	re Controls:					
8.2.1	Engine	ering Controls	Use process enclo	sures, local exhaust ventil	ation, or other engineering cont	rols to control airborne	
	(Ventila	tion etc.):	levels below recom	nmended exposure limits.			
8.2.2	Person	al protection equ	uipment:				
	Eye Pro	Eye Protection: Safety glasses					
	Protect	ive Gloves:	Compatible chemic	cal-resistant gloves			
	Other Protective Clothing:Lab coat						
	Respira	tory Equipment	NIOSH approved r	espirator, as conditions wa	arrant.		
	(Specify	у Туре):					
	Work/H	ygienic/Maintena	an Do not take interna	lly.			
	ce Prac	tices:	Facilities storing or	utilizing this material shou	uld be equipped with an eyewas	h and a safety shower	
			Wash thoroughly after handling.				
				-			

Page: 4 of 6

		Se	ction 9. Ph	nysical and Che	emical Pr	operties			
9.1	Information on Basic Physical and Chemical Properties								
	Physica	l States:	[] Gas	[X] Liquid (frozen)	[X] Solid	(Lyophilized)			
	Appeara	ance and Odor:	Solid						
	Melting	Point:	No data.						
	Boiling	Point:	No data.						
	Flash Pt	t:	No data.	No data.					
	Evapora	ation Rate:	No data.						
	Explosiv	ve Limits:	LEL: No	data.	UEL: No	o data.			
	-	ressure (vs. Air or r	nm No data.						
	Hg): Vener D		No data						
	-	ensity (vs. Air = 1):	No data.						
	-	: Gravity (Water = ty in Water:	No data.						
		ition Pt:	No data. No data.						
9.2	-	formation							
0.2		Volatile:	No data.						
			Section	10. Stability and	d Reacti	vity			
10.1	Reactivi	ity: N	lo data available			•			
10.2	Stability	r: L	Instable []	Stable [X]					
10.3	Stability	v Note(s):	Stable if stored in	accordance with inforn	nation listed of	on the product	insert.		
	Polyme	rization: V	Vill occur []	Will not occur [X]					
10.4	Conditio	ons To Avoid: N	lo data available						
10.5	Incompa	atibility - Materials N	lo data available						
	To Avoi	d:							
10.6	Hazardous No data available.								
	Decomposition Or								
	Byprodu	ucts:							
			Section 1	1. Toxicologica	l Informa	ation			
11.1	Informa	Information on The toxicological effects of this product have not been thoroughly studied.							
	Toxicolo	ogical Effects:							
CAS	#	Hazardous Compo	onents (Chemic	al Name)	NTP	IARC	ACGIH	OSHA	
9001·	-26-7	Human Prothrombin	n Des-Gla		n.a.	n.a.	n.a.	n.a.	
764	47-14-5	Sodium Chloride			n.a.	n.a.	n.a.	n.a.	
77-86-1 Tris		Tris			n.a.	n.a.	n.a.	n.a.	



Revision: 03/26/2024

	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 assessment:	No data available. No data available.			
12.6	Other adverse effects:	No data available			



	Section 13. Dispos	sal Considerat	ions					
3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
	Section 14. Transport Information							
14.1 LAND	TRANSPORT (US DOT):							
DOT Prop	er Shipping Name: Not dangerous goods.							
DOT Haza	ard Class:							
UN/NA Nu	ımber:							
14.1 LAND	TRANSPORT (European ADR/RID):							
ADR/RID	Shipping Name: Not dangerous goods.							
UN Numb	er:							
Hazard C	ass:							
14.3 AIR TH	RANSPORT (ICAO/IATA):							
ICAO/IAT	A Shipping Name: Not dangerous goods.							
Additional Tr	ansport Transport in accordance with lo	ocal, state, and federa	l regulations.					
Information:								
	Section 15. Regu	latory Informa	tion					
EPA SARA (S	Superfund Amendments and Reauthorization Act							
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
9001-26-7	Human Prothrombin Des-Gla	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					
9001-26-7	Human Prothrombin Des-Gla	CAA HAP,ODC: No; Inventory; CA PRC	CWA NPDES: No; T)P.65: No	SCA: Yes -				
7647-14-5	Sodium chloride	CAA HAP,ODC: No; PROP.65: No	CWA NPDES: No; T	SCA: No; CA				
77-86-1	Tris	CAA HAP,ODC: No; PROP.65: No	CWA NPDES: No; T	SCA: No; CA				
Regulatory In	formation This SDS was prepared in according	Drdance with 29 CFR	1910.1200 and Regu	lation (EC)				
Statement:	No.1272/2008.							
	Section 16. Ot	her Informatio	n					
Additional Inf	ormation About No data available.							
This Product:								
Company Pol	icy or Disclaimer: DISCLAIMER: This information is currently available to us. Howe express or implied, with respec use. Users should make their o their particular purposes.	ver, we make no warra t to such information,	anty of merchantabili and we assume no li	ty or any other warranty, ability resulting from its				