

	accor	ding to Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 1272/2008					
	Section 1. Identification of the Substance/Mixture and of the Company/Undertaking							
1.1	Product Code:	BP 1004						
1.1	Product Name:	Bovine Prothrombin						
	Synonyms:	Bovine Factor II						
1.2	u u u u u u u u u u u u u u u u u u u							
	Relevant identified uses: For research use only.							
1.3	Details of the Supplier of the Company Name:	Safety Data Sheet: Enzyme Research Laboratories 1801 Commerce Dr.						
		South Bend, IN 46628						
	Web site address:	www.enzymeresearch.com						
		· · · ·						
1.4	Emergency telephone numb							
	Emergency Contact:	Within USA and Canada:	+1 (800) 729-5270					
		Outside USA and Canada:	+1 (574) 288-2268					
		Section 2. Hazards I	dentification					
2.1	Classification of the Substar	ce or Mixture:						
	2.1.1 Classification acc	ording to Regulation (EC) No 1272/2	008 [CLP]:					
2.2	Label Elements:							
	2.2.1 Labeling accordin	g to Regulation (EC) No 1272/2008 [	CLP]:					
	GHS Signal Word: GHS Hazard Phrases: Based on evaluation of curre GHS Precaution Phrases:	ntly available data this substance or m	nixture is not classifiable according to GHS.					
	No phrases apply.							
	GHS Response Phrases:							
	No phrases apply.							
	GHS Storage and Disposal	Phrases:						
		Storage and Section 13 for Disposal ir	nformation					



.

### **SAFETY DATA SHEET** Bovine Prothrombin

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#### 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

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
9001-26-7 NA	Bovine Prothrombin	~98 - 99%	NA NA	No data available.
7647-14-5 VZ4725000	Sodium chloride		231-598-3 NA	No data available.
77-86-1 TY2900000	Tris 01-2119957659-16	•	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 Extinguishinç	nsuitable Extinguishing A solid water stream may be inefficient. edia:				
	Media:					
5.2	Flammable Properties and No data available.					
	Hazards:					
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data.	UEL: No data.			
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instructions	: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.				



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			Section 6. A	Accidental Releas	se Measures				
6.1	Protect	tive Precautions,	Avoid raising and	breathing dust, and provid	le adequate ventilation.				
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or						paratus, or respirator,			
Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rul									
6.2									
	Precautions:								
6.3 Methods and Material For Contain spill and collect, as appropriate.									
	Contai	ontainment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.							
	Up:			sh contaminated area and	all cleaning materials with a 10%	6 bleach aqueous			
			solution.						
			Section	7. Handling and	Storage				
7.1	Precau	itions To Be Take	<b>n</b> Avoid breathing du	ust/fume/gas/mist/vapours/	/spray.				
	in Hand	dling:	Avoid prolonged o	r repeated exposure.					
7.2	Precau	itions To Be Take	n Keep container tig	htly closed.					
	in Stor	ing:	Store in accordance	ce with information listed o	n the product insert.				
		Sec	ction 8 Expos	sure Controls/Per	rsonal Protection				
8.1	Exposu	Ire Parameters:							
CAS		Partial Chemica	al Name	Britain EH40	France VL	Europe			
9001	-26-7	Bovine Prothrom	ıbin	No data.	No data.	No data.			
764	7-14-5	Sodium Chloride	9	No data.	No data.	No data.			
77	7-86-1	Tris		TWA: 5.0 mg/m3	TWA: 5 mg/m3	No data.			
CAS	#	Partial Chemica	al Name	OSHA TWA	ACGIH TWA	Other Limits			
9001	-26-7	Bovine Prothrom	nbin	No data.	No data.	No data.			
764	7-14-5	Sodium Chloride		No data.	No data.	No data.			
77	7-86-1	Tris		TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	No data.			
8.2	Exposu	ire Controls:							
8.2.1	Engine	ering Controls	Use process enclo	osures, local exhaust ventil	lation, or other engineering contr	ols to control airborne			
	(Ventila	ation etc.):	levels below recon	nmended exposure limits.					
8.2.2	Person	Personal protection equipment:							
	Eye Pro	otection:	Safety glasses						
	Protect	Protective Gloves: Compatible chemica		al-resistant gloves					
	Other F	Protective Clothin	<b>ig:</b> Lab coat						
	Respira	Respiratory Equipment NIOSH approved re		spirator, as conditions warrant.					
	(Specif	fy Type):							
	Work/H	lygienic/Maintena	<b>an</b> Do not take interna	ally.					
			Eacilities storing of	, itilizing this material should be equipped with an eyewash and a safety shower.					
	ce Prac	ctices:	Facilities storing of	r duizing this matchar sho		•			
	ce Prac	ctices:	Wash thoroughly a	-		-			



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		Sect	ion 9. Pł	nysical and Che	emical Pr	operties				
9.1	Informat	ion on Basic Physical	and Chemica	al Properties						
	Physica	I States:	[] Gas	[ X ] Liquid (frozen)	[X] Solid	(Lyophilized)				
	Appeara	ance and Odor:	Solid							
	Melting	Point:	No data.							
	Boiling	Point:	No data.							
	Flash P	t:	No data.							
	Evapora	ation Rate:	No data.							
	Explosi	ve Limits:	LEL: No	LEL: No data. UEL: No data.						
	Vapor P	ressure (vs. Air or mn	No data.							
	Hg):									
	-	ensity (vs. Air = 1):	No data.							
	=	: Gravity (Water = 1	-							
	Solubili	ty in Water:	No data.							
	Autoign	ition Pt:	No data.							
9.2	Other In	formation								
	Percent	Volatile:	No data.							
			Section	10. Stability and	d Reacti	vity				
10.1	Reactiv	ity: No	data available	).						
10.2	Stability	r: Uns	stable [ ]	Stable [ X ]						
10.3	Stability	v Note(s): Sta	ble if stored in	accordance with inforn	nation listed o	on the product	insert.			
	Polyme	rization: Will	occur [ ]	Will not occur [ X ]						
10.4	Conditio	ons To Avoid: No	data available	e.						
10.5	Incomp	atibility - Materials No	data available	<b>)</b> .						
	To Avoi	d:								
10.6	Hazardo	No No	data available	).						
	Decomp	oosition Or								
	Byprod	ucts:								
		ç	Section 1	1. Toxicologica	l Informa	ation				
11.1	Informa	tion on The	toxicological	effects of this product h	ave not beer	n thoroughly st	udied.			
	Toxicol	ogical Effects:	-			- *				
CAS	#	Hazardous Compone	nte (Chamia	al Namo)	NTP	IARC	ACGIH	OSHA		
		-								
9001-		Bovine Prothrombin			n.a.	n.a.	n.a.	n.a.		
	47-14-5	Sodium Chloride			n.a.	n.a.	n.a.	n.a.		
11	7-86-1	Tris			n.a.	n.a.	n.a.	n.a.		



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_	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	No data available.			
	Degradability:				
12.3	Bioaccumulative	No data available.			
	Potential:				
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								
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 Prop	er Shipping Name: Not dangerous goods.							
DOT Haza	rd Class:							
UN/NA Nu	imber:							
14.1 LAND	TRANSPORT (European ADR/RID):							
ADR/RID S	Shipping Name: Not dangerous goods.							
UN Numb								
Hazard CI								
	A Shipping Name: Not dangerous goods.		-1					
Additional Tra	ansport Transport in accordance with I	ocal, state, and leden	ai regulations.					
	Section 15. Regu	latory Informa	ation					
	0	<u> </u>						
EPA SARA (S CAS #	uperfund Amendments and Reauthorization Act Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
9001-26-7	Bovine Prothrombin	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						
9001-26-7	Bovine Prothrombin	Inventory; CA PR	; CWA NPDES: No; 1 OP.65: No	ISCA: Yes -				
7647-14-5	Sodium chloride	CAA HAP,ODC: No PROP.65: No	; CWA NPDES: No; 1	ΓSCA: No; CA				
77-86-1	Tris	CAA HAP,ODC: No PROP.65: No	; CWA NPDES: No; 1	TSCA: No; CA				
Regulatory Inf	formation This SDS was prepared in acc	ordance with 29 CFR	1910.1200 and Reg	llation (EC)				
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:								
Company Policy or Disclaimer: 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.								