

	acc	cording 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:	BFV/Va	
	Product Name:	Bovine Factor V/Va	
1.2	Relevant identified uses o	f the substance or mixture and uses adv	rised against:
	Relevant identified uses	For research use only.	
1.3	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	
1.4	Emergency telephone nun	nber:	
	Emergency Contact:	Within USA and Canada:	+1 (800) 729-5270
		Outside USA and Canada:	+1 (574) 288-2268
		Section 2. Hazards Ide	entification
2.1	Classification of the Subs		
		ccording to Regulation (EC) No 1272/200	
2.2	Label Elements:		00 [CLF].
		ing to Regulation (EC) No 1272/2008 [CL	DI
	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 Dispos	sal Phrases:	
	Please refer to Section 7 f	or Storage and Section 13 for Disposal info	prmation



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SAFETY DATA SHEET Bovine Factor V/Va

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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
NA NA	Bovine Factor V/Va	~48 - 49%	NA NA	No data available.
7365-45-9 TL6809000	HEPES	~0 - 2%	230-907-9 NA	No data available.
7647-14-5 VZ4725000	Sodium Chloride 01-2119485491-33	~0 - 2%	231-598-3 NA	No data available.
56-81-5 MA8050000	Glycerol 01-2119471987-18	~50%	200-289-5 NA	No data available.

		Section 4. First Aid Measures					
4.1	Description of First Aid Measures:	id No data available.					
	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 contaminate 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	nguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media:	Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishing	g A solid water stream may be inefficient.					
	Media:						
5.2	Flammable Properties ar	nd No data available.					
	Hazards:						
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Autoignition Pt:	No data.					
5.3	Fire Fighting Instruction	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approvedor equivalent), and full protective gear to prevent contact with skin and eyes.					



			Section 6. Ac	ccidental Release M	leasures			
6.1	 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation. 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). 							
6.2	Environmental Take steps to avoid release into the environment, if safe to do so. Precautions:							
5.3			•	llect, as appropriate. cal waste container for dispos contaminated area and all cle				
			Section 7	. Handling and Sto	orage			
7.1	in Handlin	ig: ns To Be Takei :	Avoid prolonged or r n Keep container tight Store in accordance		product insert.			
3.1 CAS		Parameters: Partial Chemica	l Nomo	Britain EH40	France VL	Europa		
NA		Bovine Factor V/				Europe		
		IEPES	va	No data. No data.	No data. No data.	No data. No data.		
		Sodium Chloride		No data.	No data.	No data.		
56-81		Glycerol		TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.		
CAS		Partial Chemical Name		OSHA TWA		Other Limits		
NA		Bovine Factor V/Va		No data.	No data.	No data.		
7365	-45-9 +	IEPES		No data.	No data.	No data.		
7647	-14-5 S	Sodium Chloride		No data.	No data.	No data.		
56-81	1-5 0	Blycerol		PEL: 15 (dust); 5 (resp.) mg/m3	3 TLV: 10 mg/m3	No data.		
3.2	Exposure	Controls:						
3.2.1	Engineeri (Ventilatio	ng Controls on etc.):	-	ures, local exhaust ventilation, nended exposure limits.	, or other engineering co	ontrols to control airborn		
3.2.2		Personal protection equipment:						
	Eye Prote		Safety glasses					
		Protective Gloves: Compatible chemical-resistant gloves						
		Other Protective Clothing:Lab coat						
	Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type):							
		36.21.						
		ienic/Maintena	n Do not take internall	V.				
			n Do not take internall Facilities storing or u Wash thoroughly aft	utilizing this material should be	equipped with an eyew	vash and a safety showe		



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		Sectio	n 9. Pł	hysical and Che	emical Pr	operties		
9.1	Informati	ion on Basic Physical ar	nd Chemic	al Properties				
	Physical	l States:	[]Gas	[X] Liquid (frozen)	[] Solid (Lyophilized)		
	Appeara	ince and Odor:	Solid					
	Melting	Point:	No data.					
	Boiling I	Point:	No data.					
	Flash Pt	:	No data.					
	Evapora	tion Rate:	No data.					
	Explosiv	ve Limits:	LEL: No	data.	UEL: No	o data.		
	Vapor P	ressure (vs. Air or mm	No data.					
	Hg):							
	Vapor D	ensity (vs. Air = 1):	No data.					
	Specific	Gravity (Water = 1):	No data.					
	Solubilit	y in Water:	No data.					
	Autoign	ition Pt:	No data.					
9.2	Other Inf	ormation						
	Percent	Volatile:	No data.					
		S	Section	10. Stability an	d Reacti	vity		
10.1	Reactivi	ty: No da	ta available	e.				
10.2	Stability	: Unsta	ble []	Stable [X]				
10.3	Stability	Note(s): Stable	e if stored ir	n accordance with inform	mation listed o	on the product	insert.	
	Polymer	ization: Will or	ccur []	Will not occur [X]				
10.4	Conditio	ons To Avoid: No da	ta available	e.				
10.5	Incompa	atibility - Materials No da	ita available	е.				
	To Avoid	d:						
10.6	Hazardo	No da	ta available	е.				
	Decomp	osition Or						
	Byprodu	icts:						
		Se	ection 1	1. Toxicologica	al Informa	ation		
11.1	Informat	ormation on The toxicological effects of this product have not been thoroughly studied.						
		icological Effects:						
CAS	CAS # Hazardous Componer		ts (Chemic	cal Name)	NTP	IARC	ACGIH	OSHA
NA		Bovine Factor V/Va			n.a.	n.a.	n.a.	n.a.
7365-	45-9	HEPES			n.a.	n.a.	n.a.	n.a.
701-	14_5	Sodium Chloride			n.a.	n.a.	na	
7647-	14-5				ma.	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 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



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	Section 13. Dispo	sal Considera	tions						
13.1 Waste I	Disposal Method: Dispose in accordance with loc	cal, state, and federal	regulations.						
	Section 14. Tra	nsport Informa	tion						
14.1 LAND	TRANSPORT (US DOT):								
-	DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class:								
UN/NA Nu	mber:								
14.1 LAND	TRANSPORT (European ADR/RID):								
	Shipping Name: Not dangerous goods.								
UN Numbe									
	ass: ANSPORT (ICAO/IATA):								
	A Shipping Name: Not dangerous goods.								
Additional Tra		local, state, and federa	al regulations.						
Information:			in regulatione.						
	Section 15. Regu	ulatory Informa	tion						
EPA SARA (S	uperfund Amendments and Reauthorization Act	•							
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
NA	Bovine Factor V/Va	No	No	No					
7365-45-9	HEPES	No	No	No					
7647-14-5	Sodium Chloride	No	No	No					
56-81-5	Glycerol	No	No	No					
CAS #	Hazardous Components (Chemical Name)	Other US EPA or	State Lists						
NA	Bovine Factor V/Va	CAA HAP,ODC: No Inventory; CA PRO	; CWA NPDES: No; T DP.65: No	SCA: Yes -					
7365-45-9	365-45-9 HEPES CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No								
7647-14-5	47-14-5 Sodium Chloride CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No								
56-81-5	6-81-5 Glycerol CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No								
Regulatory Inf Statement:	This SDS was prepared in acc No.1272/2008.	cordance with 29 CFR	1910.1200 and Regu	lation (EC)					
	Section 16. Of	ther Informatio	n						
Additional Info	ormation About No data available.								
This Product:									
Company Poli	cy or Disclaimer: DISCLAIMER: This information i	is believed to be accur	ate and represents th	e best information					
	currently available to us. Howe		-						
	express or implied, with respect use. Users should make their of								
	their particular purposes.	Swith investigations to t							