

	ac	cording to Regulation (EC) No. 1907/2006 as ame	nded by (EC) No. 1272/2008
	Section 1.	Identification of the Substance/Mixture a	and of the Company/Undertaking
1.1	Product Code:	FN	
	Product Name:	Human Fibronectin	
1.2	Relevant identified uses o	f the substance or mixture and uses advis	sed against:
	Relevant identified uses		-
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 nur	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 1272/2008	
2.2	Label Elements:		, [02: ].
		ling to Regulation (EC) No 1272/2008 [CLI	P]·
	GHS Signal Word:		1.
	GHS Hazard Phrases:		
	Based on evaluation of cu GHS Precaution Phrase	rrently available data this substance or mixtu s:	ure is not classifiable according to GHS.
	No phrases apply.		
	GHS Response Phrases	:	
	No phrases apply.		
	GHS Storage and Dispo	sal Phrases:	
	Please refer to Section 7	or Storage and Section 13 for Disposal infor	mation



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2.3	Adverse Human Health			
	Effects and Symptoms:			

Biohazard - Handle as if capable of transmitting infectious agents.
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
98725-78-1 NA	Human Fibronectin	~98 - 99%	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.
57-50-1 NA	Sucrose	~0 - 2%	200-334-9 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	uishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.				
	Media:	Use water spray to cool fire-exposed containers.				
	Unsuitable Extinguishing	A solid water stream may be inefficient.				
	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	ons: 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. A	ccidental Releas	e Measures			
6.1	Protective	Precautions,	Avoid raising and b	reathing dust, and provid	le adequate ventilation.			
	Protective	Equipment a	nd As conditions warra	nt, wear a NIOSH approv	ved self-contained breathing	apparatus, or respirator,		
Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy								
<b>6.2 Environmental</b> Take steps to avoid release into the environment, if safe to do so.								
Precautions:								
6.3 Methods and Material For Contain spill and collect, as appropriate.								
	Containme	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	7. Handling and	Storage			
7.1	Precaution	ns To Be Take	<b>n</b> Avoid breathing dus	st/fume/gas/mist/vapours/	′spray.			
	in Handlin	g:	Avoid prolonged or	repeated exposure.				
7.2	Precaution	ns To Be Take	n Keep container tight	tly closed.				
	in Storing	:	Store in accordance	with information listed o	n the product insert.			
		Sec	ction 8. Expos	ure Controls/Pe	rsonal Protection			
3.1	Exposure I	Parameters:	•					
CAS		artial Chemica	al Name	Britain EH40	France VL	Europe		
9872	5-78-1 H	uman Fibroneo	otin	No data.	No data.	No data.		
7365	-45-9 H	EPES		No data.	No data.	No data.		
7647	-14-5 S	Sodium Chloride		No data.	No data.	No data.		
57-50	0-1 S	ucrose		No data.	No data.	No data.		
CAS	# P	artial Chemica	al Name	OSHA TWA	ACGIH TWA	Other Limits		
9872	5-78-1 H	uman Fibroneo	ctin	No data.	No data.	No data.		
7365	-45-9 H	EPES		No data.	No data.	No data.		
7647	-14-5 S	odium Chloride	9	No data.	No data.	No data.		
57-50	0-1 S	ucrose		No data.	No data.	No data.		
8.2	Exposure			no uata.	No data.	no data.		
8.2.1	-	ng Controls	Liso process onclos	uras local oxbaust vontil	ation, or other engineering c	antrole to control airborn		
J.Z. I	(Ventilatio	•		mended exposure limits.				
	( venulatio	n etc.j.						
222		protection equ						
3.2.2	Personal <b>p</b>	protection equ	-					
3.2.2	Personal   Eye Prote	ction:	Safety glasses	al-resistant gloves				
3.2.2	Personal   Eye Protec Protective	ction: Gloves:	Safety glasses Compatible chemica	al-resistant gloves				
3.2.2	Personal µ Eye Protec Protective Other Prot	ction: Gloves: tective Clothir	Safety glasses Compatible chemica ng:Lab coat	-	arrant			
3.2.2	Personal p Eye Protec Protective Other Prot Respirator	ction: Gloves: tective Clothir ry Equipment	Safety glasses Compatible chemica ng:Lab coat	al-resistant gloves spirator, as conditions wa	arrant.			
3.2.2	Personal p Eye Protect Protective Other Prot Respirator (Specify T	ction: Gloves: tective Clothir ry Equipment ype):	Safety glasses Compatible chemica ng:Lab coat NIOSH approved re	spirator, as conditions wa	arrant.			
8.2.2	Personal p Eye Protect Protective Other Prot Respirator (Specify T Work/Hygi	ction: Gloves: tective Clothir ry Equipment ype): tenic/Maintena	Safety glasses Compatible chemica ng:Lab coat NIOSH approved re an Do not take internall	spirator, as conditions wa		vash and a safetv showe		
8.2.2	Personal p Eye Protect Protective Other Prot Respirator (Specify T	ction: Gloves: tective Clothir ry Equipment ype): tenic/Maintena	Safety glasses Compatible chemica ng:Lab coat NIOSH approved re an Do not take internall	spirator, as conditions wa ly. utilizing this material show	arrant. uld be equipped with an eyev	vash and a safety showe		



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		Sect	ion 9. Pł	nysical and Che	mical Pi	roperties			
9.1 Information on Basic Physical and Chemical Properties									
	Physica	al States:	[] Gas	[ X ] Liquid (frozen)	[X] Solid	(Lyophilized)			
	Appear	ance and Odor:	Solid						
	Melting	Point:	No data.	No data.					
	Boiling Point: Flash Pt: Evaporation Rate:		No data.						
			No data.						
			No data.						
	Explosi	ve Limits:	LEL: No	data.	UEL: No	o data.			
	Vapor F	Pressure (vs. Air or mn	n No data.						
	Hg):								
	Vapor D	Density (vs. Air = 1):	No data.						
	Specific	c Gravity (Water = 1	): No data.						
	Solubili	ity in Water:	No data.						
	Autoigr	nition Pt:	No data.						
9.2	Other In	formation							
	Percent	t Volatile:	No data.						
			Section	10. Stability and	d Reacti	vity			
10.1	Reactiv	ity: No	data available	-		5			
10.2	Stability	-	stable [ ]	Stable [ X ]					
10.3	Stability	<b>y Note(s):</b> Sta	ble if stored ir	accordance with inforn	nation listed of	on the product	insert.		
			occur [ ]	Will not occur [ X ]					
10.4	Conditi	ons To Avoid: No	data available	<b>)</b> .					
10.5	Incomp	atibility - Materials No	data available	<b>.</b>					
	To Avoi	-							
10.6	Hazardo	ous No	data available	<b>)</b> .					
	Decomposition Or								
	Byprod	-							
			Section 1	1. Toxicologica	Inform:	ation			
11.1	Informa			effects of this product h			udied.		
		ogical Effects:	0			0,			
		-							
CAS	#	Hazardous Compone	ents (Chemic	al Name)	NTP	IARC	ACGIH	OSHA	
98725	5-78-1	Human Fibronectin			n.a.	n.a.	n.a.	n.a.	
7365-		HEPES			n.a.	n.a.	n.a.	n.a.	
7647-		Sodium Chloride			n.a.	n.a.	n.a.	n.a.	
57-50	)-1	Sucrose					n.a.	n.a.	
2. 00	•				n.a.	n.a.	n.a.	11.a.	



Persistence and Degradability:

Bioaccumulative

Potential:

assessment:

Other adverse effects:

12.2

12.3

12.4 12.5

12.6

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	Laboratories Global Coag	Human Horoneeun
		Section 12. Ecological Information
12.1	Toxicity:	Avoid release into the environment.
		Runoff from fire control or dilution water may cause pollution.

No data available.

No data available.

No data available

Mobility in Soil:No data available.Results of PBT and vPvBNo 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	DOT Proper Shipping Name: Not dangerous goods.								
DOT Hazard Class:									
UN/NA Number:									
14.1 LAND TRANSPORT (European ADR/RID):									
	Shipping Name: Not dangerous goods.								
UN Numb Hazard C									
	RANSPORT (ICAO/IATA):								
	A Shipping Name: Not dangerous goods.								
Additional Tr		local, state, and fede	ral regulations.						
Information:									
	Section 15. Regu	latory Inform	ation						
EPA SARA (S	Superfund Amendments and Reauthorization Act	-							
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
98725-78-1	Human Fibronectin	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 o	r State Lists						
9001-90-5	Human Plasmin		o; CWA NPDES: No;	TSCA: Yes -					
		Inventory; CA PF							
7365-45-9	HEPES	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No;	TSCA: No; CA					
127-09-3	Sodium Acetate	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No;	TSCA: No; CA					
57-50-1	Sucrose	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No;	TSCA: No; CA					
Regulatory In Statement:	Regulatory Information       This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)         Statement:       No.1272/2008.								
Section 16. Other Information									
Additional Inf	Additional Information About No data available.								
This Product:									
Company Pol	icy or Disclaimer: DISCLAIMER: This information i		-						
	currently available to us. Howe		-						
	express or implied, with respect use. Users should make their of								
	their particular purposes.	วงงาา แกงธุรแyaแบกร เบ							
L									