

	accor	ding to Regulation (EC) No. 1907/2006 as ame	ended by (EC) No. 1272/2008							
	Section 1. Id	lentification of the Substance/Mixture	and of the Company/Undertaking							
1.1	Product Code:	MPg								
	Product Name:	Murine Plasminogen								
.2	Relevant identified uses of t	he substance or mixture and uses advi	ised against:							
	Relevant identified uses:	For research use only.								
1.3	Details of the Supplier of the Company Name:	e Safety Data Sheet: Enzyme Research Laboratories 1801 Commerce Dr. South Bend, IN 46628								
	Web site address:	www.enzymeresearch.com								
1.4	Emergency telephone numb	er:								
	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 Substar	nce or Mixture:								
	2.1.1 Classification acc	ording to Regulation (EC) No 1272/200	8 [CLP]:							
.2	Label Elements:									
	2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:									
	-	g to Regulation (EC) No 1272/2008 [CL	P]:							
	GHS Signal Word:	g to Regulation (EC) No 1272/2008 [CL	P]:							
	GHS Signal Word: GHS Hazard Phrases:									
	GHS Signal Word: GHS Hazard Phrases:	g to Regulation (EC) No 1272/2008 [CL ently available data this substance or mixt								
	GHS Signal Word: GHS Hazard Phrases: Based on evaluation of curre									
	GHS Signal Word: GHS Hazard Phrases: Based on evaluation of curre GHS Precaution Phrases:									
	GHS Signal Word: GHS Hazard Phrases: Based on evaluation of curre GHS Precaution Phrases: No phrases apply.									
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SAFETY DATA SHEET Murine Plasminogen

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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
9001-91-6 NA	Murine Plasminogen	~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	~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 inefficient	ent.		
	Media:				
5.2	Flammable Properties an	d No data available.			
	Hazards:				
	Flash Pt:	No data.			
	Explosive Limits:	LEL: No data.	UEL: No data.		
	Autoignition Pt:				
5.3	Fire Fighting Instructions	ns: 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.			



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			Section 6. /	Accidental Releas	se Measures				
6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.									
	Protect	tive Equipment a	nd As conditions war	rrant, wear a NIOSH appro	ved self-contained breathing ap	paratus, or respirator,			
	Emerge	ency Procedures	: and appropriate p	personal protection (rubber	boots, safety goggles, and heav	vy rubber gloves).			
6.2	Enviro	nmental	Take steps to avo	oid release into the environ	ment, if safe to do so.				
	Precau	tions:							
6.3				collect, as appropriate.					
	Contai	Containment 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%	% bleach aqueous			
			solution.						
			Section	7. Handling and	Storage				
7.1	Precau	tions To Be Take	-	ust/fume/gas/mist/vapours/	/spray.				
	in Han	dling:	Avoid prolonged of	or repeated exposure.					
7.2	Precau	tions To Be Take	n Keep container tig						
	in Stor	ing:	Store in accordan	ce with information listed o	n the product insert.				
		Sec	ction 8. Expo	sure Controls/Pe	rsonal Protection				
8.1	Exposu	re Parameters:	I						
CAS		Partial Chemica	al Name	Britain EH40	France VL	Europe			
9001	-91-6	Murine Plasmine	ogen	No data.	No data.	No data.			
764	7-14-5	Sodium Chloride	e	No data.	No data.	No data.			
77	7-86-1	Tris		TWA: 5.0 mg/m3	TWA: 5 mg/m3	No data.			
CAS	#	Partial Chemic	al Name	OSHA TWA	ACGIH TWA	Other Limits			
9001	-91-6	Murine Plasmine	ogen	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	re Controls:							
8.2.1	Engine	ering Controls	Use process enclo	osures, local exhaust ventil	lation, or other engineering cont	rols to control airborne			
	(Ventila	ation etc.):	levels below recor	mmended exposure limits.					
3.2.2	Persor	Personal protection equipment:							
	Eye Pr	otection:	Safety glasses						
	Protect	Protective Gloves: Compatible chemic		cal-resistant gloves					
	Other Protective Clothing:Lab coat								
	Respira	Respiratory Equipment NIOSH approved re		respirator, as conditions wa	arrant.				
	(Specify Type):								
	Work/H	lygienic/Maintena	an Do not take intern	ally.					
	ce Prac	ctices:	Facilities storing o	or utilizing this material sho	uld be equipped with an eyewas	h and a safety showe			
				6 I III					
			Wash thoroughly	after handling.					



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		Sec	ction 9. Ph	nysical and Che	mical Pr	roperties		
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	:	No data.					
	Evapora	ation Rate:	No data.					
	Explosiv	ve Limits:	LEL: No	data.	UEL: No	o data.		
	Vapor P	ressure (vs. Air or n	nm No data.					
	Hg):							
	Vapor D	ensity (vs. Air = 1):	No data.					
	Specific	Gravity (Water =	1): No data.					
	Solubili	ty in Water:	No data.					
	Autoign	ition Pt:	No data.					
9.2	Other Inf	formation						
	Percent	Volatile:	No data.					
			Section	10. Stability and	d Reactiv	vity		
10.1	Reactivi	ity: N	o data available	-		9		
10.2	Stability	-	nstable []	Stable [X]				
10.3	Stability	Note(s): S	table if stored in	accordance with inforn	nation listed o	on the product	insert.	
	Polyme	rization: V	/ill occur []	Will not occur [X]				
10.4	Conditio	ons To Avoid: N	o data available					
10.5		atibility - Materials N	lo data available					
	To Avoi	-						
10.6	Hazardo		o data available					
		ecomposition Or						
	Byprodu							
			Section 1	1 Toxicologica	l Inform:	ation		
Section 11. Toxicological Information 11.1 Information on The toxicological effects of this product have not been thoroughly studied.								
		ogical Effects:			ave not beel	i alorouyniy St	uuleu.	
CAS	#	Hazardous Compo	onents (Chemic	al Name)	NTP	IARC	ACGIH	OSHA
9001-	-91-6	Murine Plasminoge	n		n.a.	n.a.	n.a.	n.a.
764	47-14-5	Sodium Chloride			n.a.	n.a.	n.a.	n.a.
		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 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



Section 13. Disposal Considerations								
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
	Section 14. Tran	sport Informa	ition					
14.1 LAND	TRANSPORT (US DOT):							
DOT Prop	er Shipping Name: Not dangerous goods.							
DOT Haza	rd Class:							
UN/NA Nu	mber:							
14.1 LAND	TRANSPORT (European ADR/RID):							
ADR/RID S	Shipping Name: Not dangerous goods.							
UN Numb	er:							
Hazard CI	ass:							
14.3 AIR TR	RANSPORT (ICAO/IATA):							
ICAO/IAT/	A Shipping Name: Not dangerous goods.							
Additional Tra	ansport Transport in accordance with lo	ocal, state, and feder	al regulations.					
Information:								
	Section 15. Regu	latory Informa	ation					
EPA SARA (S	uperfund Amendments and Reauthorization Act	of 1986) Lists						
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
9001-91-6	Murine Plasminogen	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					
9001-91-6	Murine Plasminogen	CAA HAP,ODC: No Inventory; CA PR	; CWA NPDES: No; T OP.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	ISCA: No; CA				
Regulatory Inf	formation This SDS was prepared in acco	ordance with 29 CFR	1910.1200 and Requ	lation (EC)				
Statement:	No.1272/2008.			(20)				
Section 16. Other Information								
Additional Info	ormation 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 o	wn investigations to	determine the suitabili	ty of the information for				
	their particular purposes.							