

Revision: 03/26/2024

	accol	rding to Regulation (EC) No. 1907/2006 as ame	nded by (EC) No. 1272/2008		
	Section 1. Ic	dentification of the Substance/Mixture a	and of the Company/Undertaking		
.1	Product Code:	GP2b3a			
	Product Name:	GPIIbIIIa			
2	Relevant identified uses of t	he substance or mixture and uses advis	sed against:		
	Relevant identified uses: For research use only.				
.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			
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 Subst	ance or Mixture:			
	2.1.1 Classification ac	cording to Regulation (EC) No 1272/200)8 [CLP]:		
	GHS Signal Word:	Warning			
	GHS Hazard Phrases:				
	H300: Fatal if swallowed H319: Causes serious eye H400: Very toxic to aquatio	c life. b life with long-lasting effects.			
	P262: Do not get in eyes, of P264: Wash hands thorous P270: Do not eat, drink or P271: Use only outdoors of P273: Avoid release to the	ghly after handling smoke when using this product.			
			protection.		



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GHS Storage and Disposal Phrases:							
Please refer to Section 7 for Stora		for Storage and Section 13 for	torage and Section 13 for Disposal information				
		-	Biohazard - Handle as if capable of transmitting infectious agents.				
	ts and Symptoms:						
		May be harmful by inhalation					
		May cause respiratory irritati		·			
		Toxic if inhaled or ingested.					
			e, the toxicological	properties have no	t been thoroughly investigated		
	Sect	tion 3. Composition					
CAS # / RTECS #	Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
NA NA	GPIIbIIIa		~96 - 98%	NA NA	No data available.		
77-86-1 ГY2900000	Tris 01-2119957659-16		~0 - 2%	201-064-4 NA	No data available.		
7647-14-5 /Z4725000	Sodium Chloride 01-2119485491-33		~0 - 2%	231-598-3 NA	No data available.		
26628-22-8 /Y8050000	Sodium Azide		~0 - 2%	247-852-1 011-004-00-7	Acute Tox.(O) 2: H300 Aquatic (A) 1: H400 Aquatic (C) 1: H410		
10035-04-8 NA	Calcium Chloride		~0 - 2%	233-140-8 017-013-00-2	Eye Irrit. 2; H319		
56-81-5 MA8050000	Glycerol 01-2119471987-18	3	~0 - 2%	200-289-5 NA	No data available.		
	cription of First Aid	Section 4. Fi	rst Aid Meas	sures			
4.1 Desc Meas			ot breathing, give a		or give oxygen by trained		
4.1 Desc Meas In Ca	ription of First Aid sures: ase of Inhalation:	No data available. Move person to fresh air. If n personnel. Get immediate medical atten Immediately wash skin with s	ot breathing, give a tion. oap and plenty of w	rtificial respiration	5 minutes. Remove contaminate		
4.1 Desc Meas In Ca In Ca	ription of First Aid sures: ase of Inhalation:	No data available. Move person to fresh air. If n personnel. Get immediate medical atten Immediately wash skin with s clothing. Get medical attention Flush eyes with plenty of wat	ot breathing, give a tion. oap and plenty of w on if symptoms occi	ntificial respiration vater for at least 15 ur. Wash clothing b	5 minutes. Remove contaminate before reuse.		
4.1 Desc Meas In Ca In Ca In Ca	cription of First Aid sures: ase of Inhalation: ase of Skin Contact:	No data available. Move person to fresh air. If n personnel. Get immediate medical atten Immediately wash skin with s clothing. Get medical attentio Flush eyes with plenty of wat medical personnel. Wash out mouth with water p	ot breathing, give a tion. oap and plenty of w on if symptoms occi ter for at least 15 m provided person is o	ntificial respiration vater for at least 15 ur. Wash clothing I inutes. Have eyes conscious. Never g	5 minutes. Remove contaminate before reuse. examined and tested by		
4.1 Desc Meas In Ca In Ca In Ca	cription of First Aid sures: ase of Inhalation: ase of Skin Contact: ase of Eye Contact:	No data available. Move person to fresh air. If n personnel. Get immediate medical attent Immediately wash skin with s clothing. Get medical attention Flush eyes with plenty of wat medical personnel. Wash out mouth with water p unconscious person. Get medical	ot breathing, give a tion. oap and plenty of w on if symptoms occu ter for at least 15 m provided person is o dical attention. Do	urtificial respiration vater for at least 15 ur. Wash clothing l inutes. Have eyes conscious. Never g NOT induce vomiti	5 minutes. Remove contaminate before reuse. examined and tested by give anything by mouth to an		
4.1 Desc Meas In Ca In Ca In Ca	cription of First Aid sures: ase of Inhalation: ase of Skin Contact: ase of Eye Contact: ase of Ingestion:	No data available. Move person to fresh air. If n personnel. Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Flush eyes with plenty of wat medical personnel. Wash out mouth with water p unconscious person. Get me medical personnel.	ot breathing, give a tion. oap and plenty of w on if symptoms occu ter for at least 15 m provided person is o dical attention. Do Fighting Me carbon dioxide, wat	artificial respiration vater for at least 15 ur. Wash clothing I inutes. Have eyes conscious. Never g NOT induce vomition casures ter, or dry chemica	5 minutes. Remove contaminate before reuse. examined and tested by give anything by mouth to an ing unless directed to do so by		
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4.1 Desc Meas In Ca In Ca In Ca 5.1 Suita Medi Unsu Medi 5.2 Flam	cription of First Aid sures: ase of Inhalation: ase of Skin Contact: ase of Eye Contact: ase of Ingestion: able Extinguishing a: uitable Extinguishing a: uitable Properties an ards:	No data available. Move person to fresh air. If n personnel. Get immediate medical attent Immediately wash skin with s clothing. Get medical attention Flush eyes with plenty of wat medical personnel. Wash out mouth with water p unconscious person. Get me medical personnel. Section 5. Fire Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be	ot breathing, give a tion. oap and plenty of w on if symptoms occu ter for at least 15 m provided person is o dical attention. Do Fighting Me carbon dioxide, wat exposed containers	artificial respiration vater for at least 15 ur. Wash clothing I inutes. Have eyes conscious. Never g NOT induce vomition casures ter, or dry chemica	5 minutes. Remove contaminate before reuse. examined and tested by give anything by mouth to an ing unless directed to do so by		
4.1 Desc Meas In Ca In Ca In Ca In Ca 5.1 Suita Medi Unsu Medi 5.2 Flam Haza Flash	ase of Inhalation: ase of Skin Contact: ase of Eye Contact: ase of Ingestion: able Extinguishing a: uitable Extinguishing a: uitable Properties an ards: h Pt:	No data available. Move person to fresh air. If n personnel. Get immediate medical attent Immediately wash skin with s clothing. Get medical attention Flush eyes with plenty of wat medical personnel. Wash out mouth with water p unconscious person. Get medical personnel. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire- J A solid water stream may be d No data available.	ot breathing, give a tion. oap and plenty of w on if symptoms occu ter for at least 15 m provided person is o dical attention. Do Fighting Me carbon dioxide, wat exposed containers	artificial respiration vater for at least 18 ur. Wash clothing I inutes. Have eyes conscious. Never g NOT induce vomit easures er, or dry chemica	5 minutes. Remove contaminate before reuse. examined and tested by give anything by mouth to an ing unless directed to do so by		
4.1 Desc Meas In Ca In Ca In Ca In Ca 5.1 Suita Medi Unsu Medi 5.2 Flam Haza Flash Explo	cription of First Aid sures: ase of Inhalation: ase of Skin Contact: ase of Eye Contact: ase of Ingestion: able Extinguishing a: uitable Extinguishing a: uitable Properties an ards:	No data available. Move person to fresh air. If n personnel. Get immediate medical attent Immediately wash skin with s clothing. Get medical attention Flush eyes with plenty of wata medical personnel. Wash out mouth with water p unconscious person. Get me medical personnel. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire- A solid water stream may be d No data available. No data.	ot breathing, give a tion. oap and plenty of w on if symptoms occi ter for at least 15 m provided person is o dical attention. Do Fighting Me carbon dioxide, wat exposed containers a inefficient.	artificial respiration vater for at least 18 ur. Wash clothing I inutes. Have eyes conscious. Never g NOT induce vomit easures er, or dry chemica	5 minutes. Remove contaminate before reuse. examined and tested by give anything by mouth to an ing unless directed to do so by		



			Section 6.	Accidental Releas	e Measures			
5.1	Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.							
	Protect	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,						
	Emerge	ergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).						
.2	Enviro	nmental	Take steps to ave	oid release into the environn	nent, if safe to do so.			
	Precautions:							
3	Method	Is and Material Fo	r Contain spill and	collect, as appropriate.				
	Contai	nment and Cleani	ng Transfer to a che	mical waste container for dis	sposal in accordance with local	regulations.		
	Up:		After removal, flu solution.	sh contaminated area and a	Ill cleaning materials with a 10%	6 bleach aqueous		
			Section	7. Handling and	Storage			
.1	Precau	tions To Be Taker	n Avoid breathing d	ust/fume/gas/mist/vapours/s	spray.			
	in Hand	dling:	Avoid prolonged of	or repeated exposure.				
		tions To Be Taker	n Keep container tig	ghtly closed.				
	in Stori	ing:	Store in accordan	ce with information listed on	the product insert.			
		Sec	tion 8. Expo	sure Controls/Per	sonal Protection			
.1	Exposu	re Parameters:						
CAS #	#	Partial Chemica	l Name	Britain EH40	France VL	Europe		
IA		GPIIbIIIa		No data.	No data.	No data.		
7-86	-1	Tris		TWA: 5.0 mg/m3	TWA: 5 mg/m3	No data.		
647-	14-5	Sodium Chloride		No data.	No data.	No data.		
6628	-22-8	Sodium Azide		TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3		
10035-04-8		Calcium Chloride		No data.	No data.	No data.		
56-81·	-5	Glycerol		No data.	No data.	No data.		
CAS #	¥	Partial Chemica	l Name	OSHA TWA	ACGIH TWA	Other Limits		
IA		GPIIbIIIa		No data.	No data.	No data.		
7-86	-1	Tris		TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	No data.		
′647 - ′	14-5	Sodium Chloride		No data.	No data.	No data.		
6628	-22-8	Sodium Azide		No data.	CEIL: 0.29 mg/m3	No data.		
0035	-04-8	Calcium Chloride	•	No data.	No data.	No data.		
6-81	-5	Glycerol		No data.	No data.	No data.		
.2	Exposu	re Controls:		no data.				
.2.1 .2.2	(Ventila Person	ering Controls ation etc.): al protection equ	levels below reco ipment:	osures, local exhaust ventila mmended exposure limits.	ation, or other engineering contr	rols to control airbor		
	-	otection:	Safety glasses	ical registant clause				
	Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat							
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.							
	-	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally							
	ce Prac	ctices:	•	U	ld be equipped with an eyewas	h and a safety shov		
			Wash thoroughly	after handling.				



		Sec	tion 9. Ph	nysical and Che	emical P	roperties		
9.1	Information on Basic Physical and Chemical Properties							
	Physica	al States:	[] Gas	[X] Liquid (frozen)	[] Solid ((Lyophilized)		
	Appear	ance and Odor:	Solid					
	Melting	Point:	No data.					
	Boiling	Point:	No data.					
	Flash P	Pt:	No data.					
	Evapor	ation Rate:	No data.					
	Explosi	ive Limits:	LEL: No	data.	UEL: No	o data.		
	Vapor F	Pressure (vs. Air or m	Mo data.					
	Hg):							
	Vapor [Density (vs. Air = 1):	No data.					
	Specifi	c Gravity (Water =	1): No data.					
	Solubil	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	vity: N	o data available	.				
10.2	Stabilit	-	nstable []	Stable [X]				
10.3		Stability Note(s): Stable if stored in accordance with information listed on the product insert.						
		erization: W		·				
10.4	Conditi	ons To Avoid: N	o data available	Will not occur [X]				
10.5		atibility - Materials N	o data available	2.				
	To Avo	-						
10.6	Hazard		o data available					
	Decomposition Or							
	Byproducts:							
			Section 1	1. Toxicologica	I Inform:	ation		
11.1	Section 11. Toxicological Information Information on The toxicological effects of this product have not been thoroughly studied.							
		oxicological Effects:						
		-						
CAS	#	Hazardous Compo	nents (Chemic	al Name)	NTP	IARC	ACGIH	OSHA
NA		GPIIbIIIa			n.a.	n.a.	n.a.	n.a.
77-86	-1	Tris			n.a.	n.a.	n.a.	n.a.
7647-	14-5	Sodium Chloride			n.a.	n.a.	n.a.	n.a.
26628	3-22-8	Sodium Azide			n.a.	n.a.	A4	n.a.
10035	5-04-8	Calcium Chloride			n.a.	n.a.	n.a.	n.a.
		1			1	1	1	1



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	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 D	isposal Method: Dispose in accordance with loca					
	Section 14. Tran	sport Informa	tion			
14.1 LAND T	RANSPORT (US DOT):	•				
	r Shipping Name: Not dangerous goods.					
DOT Hazar						
UN/NA Nun						
14.1 LAND T						
	hipping Name: Not dangerous goods.					
UN Number						
Hazard Cla						
14.3 AIR TR/	ANSPORT (ICAO/IATA):					
	Shipping Name: Not dangerous goods.					
Additional Trar		ocal, state, and federa	al regulations.			
Information:			a regulatione.			
	Section 15. Regu	latory Informa	tion			
EPA SARA (Su	perfund Amendments and Reauthorization Act	<u> </u>				
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	GPIIbilia	No	No	No		
77-86-1	Tris	No	No	Yes-Cat. N106		
7647-14-5	Sodium Chloride	No	No	No		
26628-22-8	Sodium Azide	Yes 500 LB	Yes 1000 LB	Yes		
10035-04-8	Calcium Chloride	No	No	No		
56-81-5	Glycerol	No	No	No		
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists				
NA	GPIIbIIIa		; CWA NPDES: No; T	SCA: Yes -		
77-86-1	Tris	Inventory; CA PR	<u>OP.65: No</u> ; CWA NPDES: No; T			
77-00-1	1115	PROP.65: No	, GWA NEDES. NO, I	30A. NO, CA		
7647-14-5	Sodium Chloride		; CWA NPDES: No; T	SCA: No; CA		
26628-22-8	Sodium Azide	PROP.65: No CAA HAP ODC: No	CWA NPDES: No: T	SCA: No: CA		
		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA <u>PROP.65: No</u> CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -				
10035-04-8	Calcium Chloride			SCA: Yes -		
56-81-5	Glycerol	Inventory: CA PROP.65: No CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA				
		PROP.65: No				
Regulatory Info		ordance with 29 CFR	1910.1200 and Regu	lation (EC)		
Statement:	Statement: No.1272/2008.					



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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.