

Revision: 03/26/2024

	accor	ding to Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 1272/2008						
	Section 1. Id	entification of the Substance/Mixtur	e and of the Company/Undertaking						
1.1	Product Code:	НАТ							
	Product Name:	Human Antithrombin							
1.2	Relevant identified uses of t	he substance or mixture and uses a	dvised against:						
	Relevant identified uses: For research use only.								
1.3	Details of the Supplier of the Safety Data Sheet: Company Name: 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	nce 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:	ently available data this substance or n	nixture is not classifiable according to GHS.						
	No phrases apply.								
	GHS Response Phrases:								
	No phrases apply.								
	GHS Storage and Disposa	I Phrases:							
	Please refer to Section 7 for	Storage and Section 13 for Disposal in	ofrmation						



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SAFETY DATA SHEET Human Antithrombin

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
9000-94-6 NA	Human Antithrombin	~98 - 99%	NA NA	No data available.
7647-14-5 VZ4725000	Sodium chloride	~0 - 2%	231-598-3 NA	No data available.
77-86-1 TY2900000	Tris 01-2119957659-16	~0 - 2%	201-064-4 NA	No data available.
6132-04-3 TZ8595800	Sodium Citrate	~0 - 2%	612-118-5 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	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 an	d 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.			



			Section 6. A	ccidental Releas	e Measures				
6.1 6.2	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 respiratorEmergency Procedures:and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).EnvironmentalTake steps to avoid release into the environment, if safe to do so.								
	Precautions:								
6.3			ngTransfer to a chem		isposal in accordance with local all cleaning materials with a 10 ⁰				
			Section [·]	7. Handling and	Storage				
7.1 7.2	in Hand	lling: tions To Be Take ng:	Avoid prolonged or n Keep container tigh Store in accordanc	e with information listed o					
8.1		re Parameters:							
CAS		Partial Chemica		Britain EH40	France VL	Europe			
9000-	-94-6	Human Antithror	nbin	No data.	No data.	No data.			
764	7-14-5	Sodium Chloride		No data.	No data.	No data.			
77	-86-1	Tris		TWA: 5.0 mg/m3	TWA: 5 mg/m3	No data.			
6132-	-04-3	Sodium Citrate		No data.	No data.	No data.			
CAS	#	Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits			
9000-	-94-6	Human Antithrombin		No data.	No data.	No data.			
764	7-14-5	Sodium Chloride	Sodium Chloride		No data.	No data.			
77	-86-1	Tris		TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	No data.			
6132-	-04-3	Sodium Citrate		No data.	No data.	No data.			
 8.2 Exposure Controls: 8.2 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineerin (Ventilation etc.): levels below recommended exposure limits. 8.22 Personal protection equipment: 					ation, or other engineering cont	rols to control airborne			
	•	Eye Protection: Safety glasses Protective Gloves: Compatible chemical-resistant gloves							
		rotective Gloves: Compatible chemical-resistant gloves ther Protective Clothing:Lab coat							
	Respira (Specif	Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type):							
			n Do not take interna	•					
	ce Practices:		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.						
			No data available.						



		Se	ction 9. Ph	nysical and Che	emical Pi	operties		
9.1	Information on Basic Physical and Chemical Properties							
	Physical	l States:	[]Gas	[X] Liquid (frozen)	[X] 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	/e Limits:	LEL: No o	data.	UEL: No	o data.		
	Vapor P	ressure (vs. Air or	mm No data.					
	Hg):							
	Vapor D	ensity (vs. Air = 1):	No data.					
	-	Gravity (Water =	1): No data.					
	Solubilit	ty in Water:	No data.					
	Autoigni	ition Pt:	No data.					
9.2	Other Inf	ormation						
	Percent	Volatile:	No data.					
			Section	10. Stability and	d Reacti	vity		
10.1	Reactivi	Reactivity: No data available.						
10.2	Stability	Stability: Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in	accordance with inforn	nation listed of	on the product	insert.	
	Polymer	ization:	Will occur []	Will not occur [X]				
10.4	Conditio	ons To Avoid:	No data available					
10.5	Incompa	atibility - Materials	No data available					
	To Avoid	d:						
10.6	0.6 Hazardous No data available.							
	Decomp	Decomposition Or						
	Byprodu	ucts:						
			Section 1	1. Toxicologica	l Informa	ation		
11.1	Informat	tion on -		effects of this product h			udied.	
		ogical Effects:	U U					
CAS # Hazardous Cor		Hazardous Comp	onents (Chemic	al Name)	NTP	IARC	ACGIH	OSHA
9000-94-6		Human Antithromb	•		n.a.	n.a.	n.a.	n.a.
	7647-14-5 Sodium Chloride				n.a.	n.a.	n.a.	n.a.
77-86-1 Tris					n.a.	n.a.	n.a.	n.a.
6132-	-04-3	Sodium Citrate			n.a.	n.a.	n.a.	n.a.



Page: 5 of 6

Revision: 03/26/2024

	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 assessment:	No data available. No data available.				
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 Prope	DOT Proper Shipping Name: Not dangerous goods.								
DOT Hazaı	DOT Hazard Class:								
UN/NA Nui	mber:								
14.1 LAND 1	FRANSPORT (Eur	opean ADR/RID):							
	hipping Name:	Not dangerous goods.							
UN Numbe									
Hazard Cla									
	ANSPORT (ICAO/ Shipping Name:	Not dangerous goods.							
Additional Tra		Transport in accordance with lo	cal state and fodora	Iroquiations					
Information:	insport	Transport in accordance with to	cal, state, and levera	regulations.					
		Section 15. Regul	atory Informa	tion					
			-						
EPA SARA (SI CAS #	-	nents and Reauthorization Act on ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
9000-94-6	Human Antithron		No	S. 304 RQ	No				
7647-14-5	Sodium Chloride		No	No	No				
77-86-1	Tris		No	No	Yes-Cat. N106				
6132-04-3	Sodium Citrate		No	No	No				
			NO	NO	NO				
CAS #		ponents (Chemical Name)	Other US EPA or S						
9000-94-6	Human Antithron	hbin	CAA HAP,ODC: No; Inventory; CA PRC	CWA NPDES: No; T P.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	SCA: No; CA				
6132-04-3	Sodium Citrate		CAA HAP,ODC: No; PROP.65: No	CWA NPDES: No; T	SCA: No; CA				
Regulatory Inf	ormation	This SDS was prepared in accor No.1272/2008.	rdance with 29 CFR ²	1910.1200 and Regul	ation (EC)				
Statement:			or Information						
		Section 16. Oth		1					
Additional Info	rmation About	No data available.							
This Product: Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information									
Company Point	currently available to us. However, we make no warranty of merchantability or any other warranty,								
		express or implied, with respect		-					
		use. Users should make their ov							
		their particular purposes.							