

	accord	ding to Regulation (EC) No. 1907/2006 as	amended by (EC) No. 1272/2008				
	Section 1. Id	entification of the Substance/Mixtu	re and of the Company/Undertaking				
1.1	I.1 Product Code: RFXa Product Name: Rat Factor Xa						
1.2 Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses:	For research use only.					
1.3	Details of the Supplier of the Company Name:	Enzyme Research Laboratories 1801 Commerce Dr. South Bend, IN 46628					
	Web site address:	www.enzymeresearch.com					
1.4	Emergency telephone number						
	Emergency Contact:	Within USA and Canada:	+1 (800) 729-5270				
		Outside USA and Canada:	+1 (574) 288-2268				
		Section 2. Hazards	Identification				
2.1	Classification of the Substar	nce or Mixture:					
	2.1.1 Classification acco	ording to Regulation (EC) No 1272/2	2008 [CLP]:				
2.2	Label Elements:						
	2.2.1 Labeling according	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 i	nixture is not classifiable according to GHS.				
	No phrases apply.						
	GHS Response Phrases:						
	No phrases apply.						
	GHS Storage and Disposal	Phrases:					
	Please refer to Section 7 for	Storage and Section 13 for Disposal	nformation				



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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
9002-05-5 NA	Rat Factor Xa	~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.

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 inefficie	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	s: 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.					



	_			Accidental Releas					
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 respira							
Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy ru									
6.2 Environmental Take steps to avoid release into the environment, if safe to do so.									
	Precaut								
.3		Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.							
		ment and Clean	•						
	Up:		solution.	sh contaminated area and	all cleaning materials with a 109	% bleach aqueous			
			30101011.						
			Section	7. Handling and	Storage				
.1	Precaut	ions To Be Take		ust/fume/gas/mist/vapours/	/spray.				
	in Hand	-		or repeated exposure.					
.2			n Keep container tig						
	in Storiı	ng:	Store in accordan	ce with information listed of	n the product insert.				
		Sec	ction 8. Expo	sure Controls/Pe	rsonal Protection				
.1	Exposur	e Parameters:							
CAS		Partial Chemica	al Name	Britain EH40	France VL	Europe			
9002	-05-5	Rat Factor Xa		No data.	No data.	No data.			
764	7-14-5	Sodium Chloride		No data.	No data.	No data.			
77	7-86-1	Tris		TWA: 5.0 mg/m3	TWA: 5 mg/m3	No data.			
CAS	#	Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits			
9002	-05-5	Rat Factor Xa Sodium Chloride Tris		No data.	No data.	No data.			
764	7-14-5			No data.	No data.	No data.			
77	7-86-1			TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	No data.			
.2	Exposur	e Controls:							
.2.1	•		Use process enclo	osures, local exhaust ventil	ation, or other engineering cont	rols to control airbor			
	-	tion etc.):	-	mmended exposure limits.	ý 6 6				
.2.2	-	Personal protection equipment:							
		Eye Protection: Safety glasses							
	Protective Gloves: Compatible chemica		ical-resistant gloves						
	Other P	rotective Clothir	ng:Lab coat	Ū.					
		tory Equipment	-	respirator, as conditions wa	arrant.				
	(Specify			-					
			an Do not take intern	ally.					
				g or utilizing this material should be equipped with an eyewash and a safety show					
			Week thereughly	Wash thoroughly after handling.					
			wash moroughly	alter handling.					



	Sec	ction 9. Ph	nysical and Che	emical Pi	roperties				
1 Informa	nformation on Basic Physical and Chemical Properties								
Physic	al States:	[] Gas	[X] Liquid (frozen)	[X] Solid	(Lyophilized)				
Appea	rance and Odor:	Solid							
Melting	g Point:	No data.							
Boiling	g Point:	No data.							
Flash I	Pt:	No data.							
Evapo	ration Rate:	No data.							
Explos	sive Limits:	LEL: No data. UEL: No data.							
Vapor	Pressure (vs. Air or n	nm No data.							
Hg):									
Vapor	Density (vs. Air = 1):	No data.							
Specif	ic Gravity (Water =	1): No data.							
Solubi	lity in Water:	No data.							
Autoig	nition Pt:	No data.							
.2 Other I	nformation								
Percer	nt Volatile:	No data.							
		Section	10. Stability and	d Reacti	vity				
0.1 Reacti	vity: N	o data available	• •						
0.2 Stabili	-	nstable []	Stable [X]						
0.3 Stabili	bility Note(s): Stable if stored in accordance with information listed on the product insert.								
Polym	erization: V	/ill occur []	Will not occur [X]						
0.4 Condit	Conditions To Avoid: No data available.								
	patibility - Materials N	lo data available	.						
To Avo	-								
0.6 Hazard	lous N	o data available	.						
	position Or		-						
Bypro	-								
		Section 1	1. Toxicologica	l Informa	ation				
11.1 Information on The toxicological effects of this product have not been thoroughly studied.									
	logical Effects:	5			5,				
CAS #	Hazardous Compo	onents (Chemic	al Name)	NTP	IARC	ACGIH	OSHA		
002-05-5	Rat Factor Xa			n.a.	n.a.	n.a.	n.a.		
7647-14-5 Sodium Chlorid				n.a.	n.a.	n.a.	n.a.		
1041-14-0									



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	Section 12. Ecological Information
Toxicity:	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
Persistence and	No data available.
Degradability:	
Bioaccumulative	No data available.
Potential:	
Mobility in Soil: Results of PBT and vPvB	No data available. No data available.
assessment:	
Other adverse effects:	No data available
	Toxicity: Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment:



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 Prop	er Shipping Name: Not dangerous goods.								
DOT Haza	rd Class:								
UN/NA Nu	mber:								
14.1 LAND	TRANSPORT (European ADR/RID):								
ADR/RID	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 le	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)					
9002-05-5	Rat Factor Xa	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						
9002-05-5	Rat Factor Xa	CAA HAP,ODC: No Inventory; CA PR	; CWA NPDES: No; ⁻ OP.65: No	TSCA: Yes -					
7647-14-5	Sodium chloride	CAA HAP,ODC: No PROP.65: No	; CWA NPDES: No; ⁻	TSCA: No; CA					
77-86-1	Tris	CAA HAP,ODC: No PROP.65: No	; CWA NPDES: No; ⁻	TSCA: No; CA					
Regulatory Inf	formation This SDS was prepared in according	ordance with 29 CFR	1910.1200 and Reg	ulation (EC)					
Statement:	Regulatory InformationThis SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)Statement:No.1272/2008.								
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 own investigations to determine the suitability of the information for								
	their particular purposes.								