

Page: 1 of 6

Revision: 03/26/2024

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: HFXa 1011
Product Name: Human 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 Safety Data Sheet:

Company Name: Enzyme Research Laboratories

1801 Commerce Dr. South Bend, IN 46628

Web site address: <u>www.enzymeresearch.com</u>

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 Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute Toxicity: Inhalation, Category 1h

Acute Toxicity: Eye, Category 2
Acute Toxicity: Skin, Category

2

#### 2.2 Label Elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:



GHS Signal Word: Warning

**GHS Hazard Phrases:** 

H318: Causes serious eye damage

**GHS Precaution Phrases:** 

P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### **GHS Response Phrases:**

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

#### **GHS Storage and Disposal Phrases:**

Please refer to Section 7 for Storage and Section 13 for Disposal information



Revision: 03/26/2024

2.3 Adverse Human Health Biohazard - Handle as if capable of transmitting infectious agents.

Effects and Symptoms: Causes serious eye damage.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause eye 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	Human Factor Xa	~96 - 98%	NA NA	No data available.
7647-14-5 VZ4725000	Sodium chloride	~0 - 2%	231-598-3 NA	No data available.
6976-37-0 NA	Bis Tris	~0 - 2%	230-237-7 NA	Eye Dam. 1; H318

### 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 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: 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.



Revision: 03/26/2024

### Section 6. Accidental Release Measures

**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 respirator, **Emergency Procedures:** and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental** 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.

**Containment and Cleaning**Transfer 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. Handling and Storage

**7.1 Precautions To Be Taken** Avoid breathing dust/fume/gas/mist/vapours/spray.

**in Handling:** Avoid prolonged or repeated exposure.

**7.2** Precautions To Be Taken Keep container tightly closed.

in Storing: Store in accordance with information listed on the product insert.

## Section 8. Exposure Controls/Personal Protection

8.1 E	xposure	<b>Parameters</b>
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or Exposure ratameters.				
CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
9002-05-5	Human Factor Xa	No data.	No data.	No data.
7647-14-5	Sodium chloride	No data.	No data.	No data.
6976-37-0	Bis Tris	No data.	No data.	No data.
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
<b>CAS #</b> 9002-05-5	Partial Chemical Name Human Factor Xa	OSHA TWA  No data.	ACGIH TWA No data.	Other Limits  No data.

#### 8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

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 Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Wash thoroughly after handling.

No data available.



Revision: 03/26/2024

# Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid (frozen) [ X ] Solid (Lyophilized)

Appearance and Odor: Solid

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

**Explosive Limits:** LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm No data.

Ha):

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Autoignition Pt: No data.

9.2 Other Information

Percent Volatile: No data.

## Section 10. Stability and Reactivity

**10.1 Reactivity:** No data available.

**10.2 Stability:** Unstable [ ] Stable [ X ]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Polymerization: Will occur [ ] Will not occur [ X ]

10.4 Conditions To Avoid: No data available.10.5 Incompatibility - Materials No data available.

To Avoid:

**10.6 Hazardous** No data available.

**Decomposition Or** 

**Byproducts:** 

## Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

**Toxicological Effects:** 

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
9002-05-5	Human Factor Xa	n.a.	n.a.	n.a.	n.a.
7647-14-5	Sodium chloride	n.a.	n.a.	n.a.	n.a.
6976-37-0	Bis Tris	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** No data available.

Degradability:

**12.3 Bioaccumulative** No data available.

Potential:

12.4 Mobility in Soil: No data available.12.5 Results of PBT and vPvB No data available.

assessment:

12.6 Other adverse effects: No data available



Revision: 03/26/2024

# 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 Proper Shipping Name:** Not dangerous goods.

DOT Hazard Class: UN/NA Number:

#### 14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

**Additional Transport** 

Transport in accordance with local, state, and federal regulations.

Information:

## Section 15. Regulatory Information

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
9002-05-5	Human Factor Xa	No	No	No
7647-14-5	Sodium chloride	No	No	No
6976-37-0	Bis Tris	No	No	No

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
9002-05-5	Human Factor Xa	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7647-14-5	Sodium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
6976-37-0	Bis Tris	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

**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 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.