

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier Recombinant Human Factor VIIa** 

Other means of identification

Product code 407REC/N

Recommended use Research use only.

**Recommended restrictions** Use in accordance with supplier's recommendations.

Manufacturer/Importer/Supplier/Distributor information

**Corporate Headquarters** BioMedica Diagnostics Inc.

94 Wentworth Road, PO Box 1030

Windsor, Nova Scotia CANADA BON 2TO

**Contact person** Corporate Phone: 1-902-798-5105

Corporate Fax: 1-902-798-1025

Email: info@biomedicadiagnostics.com Website: www.biomedicadiagnostics.com

**Emergency Telephone** 

US, Canada, Puerto Rico & Virgin Islands 1-800-255-3924 **Numbers** 

International +1-813-248-0585 Australia 1-300-954-583 Brazil 0-800-591-6042

Not classified.

China 400-120-0751 India 000-800-100-4086 Mexico 01-800-099-0731

MIS9591327 **Contract number** 

2. Hazard(s) identification

**Physical hazards** Not classified. **Health hazards** Not classified.

Label elements

**OSHA** defined hazards

None. Hazard symbol None. Signal word **Hazard statement** None.

**Precautionary statement** 

Prevention Observe good laboratory hygiene practices.

Response Wash with plenty of water.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%	
Sodium chloride	7647-14-5	40 - 50	
Calcium chloride	10043-52-4	15 - 25	
Glycylglycine	556-50-3	15 - 25	

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

4. First-aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if any discomfort

continues.

SDS US Recombinant Human Factor VIIa

**Skin contact** For skin contact flush with large amounts of water while removing contaminated clothing. Get

medical attention if irritation develops and persists.

Eye contact In case of contact, immediately flush eyes with fresh water for at least 15 minutes while holding the

eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.

Ingestion Rinse mouth thoroughly if dust is ingested. Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delayed

Dust may cause eye, skin and respiratory tract irritation.

Indication of immediate medical attention and special

medical attention and specia treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Water spray, carbon dioxide, dry chemical or alcohol-resistant foam.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Sodium oxides.

Special protective equipment and precautions for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in

case of fire.

Fire fighting

equipment/instructions

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product.

Methods and materials for containment and cleaning up

Avoid dust formation. Sweep or scoop up and remove.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Store in a closed container away from incompatible materials. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents, and all metals except titanium.

#### 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Exposure guidelines
Appropriate engineering

Follow standard monitoring procedures.

controls

No special ventilation requirements.

Individual protection measures, such as personal protective equipment

Eye/face protection

Recombinant Human Factor VIIa

Wear dust-resistant safety goggles.

Skin protection

Hand protection It is a good industrial hygiene practice to minimize skin contact. Chemical resistant gloves are

recommended.

Other It is a good industrial hygiene practice to minimize skin contact.

Respiratory protection In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment

with particle filter.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Version #: 02 Revision date: 24-October-2017 Issue date: 01-December-2017

### 9. Physical and chemical properties

**Appearance** White powder.

Solid. Physical state **Form** Powder. White. Color None. Odor

**Odor threshold** Not available.

6.7 рH

Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapor pressure Not available. Vapor density Not available. Not available. Relative density

Solubility(ies)

Water soluble. Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Not explosive. **Explosive properties** Oxidizing properties Not oxidizing.

## 10. Stability and reactivity

The product is stable and non reactive under normal conditions of storage and transport. Reactivity

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

Does not occur.

Conditions to avoid Keep away from heat.

Incompatible materials Strong oxidizing agents. Strong acids.

**Hazardous decomposition** Carbon oxides.

products

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Dust may irritate respiratory system.

Skin contact Dust may irritate skin.

Eye contact Dust in the eyes will cause irritation. Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Mechanical irritation of skin, eyes and respiratory system. Symptoms include: Cough, redness.

Recombinant Human Factor VIIa SDS US Version #: 02 Revision date: 24-October-2017 Issue date: 01-December-2017

Acute toxicity	May cause dis	May cause discomfort if swallowed. May cause irritation of respiratory tract.				
Components	Species	Test Results		Species	Test Results	
Sodium chloride (CAS 7647-14-5)	)	Calciu	m chloride, anhy	drous (CAS 10043	3-52-4)	
Acute			Acute			
Dermal			Dermal			
LD50	Rabbit	> 10000 mg/kg	LD50	Rabbit	> 5000 mg/kg	
Oral			Oral			
LD50	Rat	> 3980 mg/kg	LD50	Rat	2301 mg/kg	
Other						
LD50	Mouse	2602 mg/kg				
Skin corrosion/irritation	Dust may irrita	ite skin.	Prolonged ey	e contact may cau	se irritation.	
Serious eye damage/eye irritation	Dust may irrita	ite the eyes.	Severe eye ir	ritant.		
Respiratory or skin sensitizatio	on					
Respiratory sensitization	Not classified.		Not classified	l.		
Skin sensitization	Not classified.		Not classified	l.		
Germ cell mutagenicity	Not classified.		Not classified	l.		
Carcinogenicity	Not classified.		Not classified	l.		
OSHA Specifically Regulate Not listed.	ed Substances (	29 CFR 1910.1001-1050)				
Reproductive toxicity	Not classified.		Not classified	l.		
Specific target organ toxicity - single exposure	Not classified.		Not classified	l.		
Specific target organ toxicity - repeated exposure	Not classified.		Not classified	l.		
Aspiration hazard	Not classified.		Not classified	l.		
Further information		ific acute or chronic	No other effe			
12. Ecological information						
Ecotoxicity: Components		Species	Tes	st Results		
Sodium chloride (CAS 7647-	14-5)					
Aquatic						
Crustacea	EC50	Water flea (Daphnia magna)	87	'4 mg/l, 48 hours		
Calcium chloride, anhydrous	(CAS 10043-52-	4)				
	EC50	Water flea (Daphnia magna)		00 mg/l, 48 hours		
	EC50	Algae (Pseudokirchneriella su		00 mg/l, 72 hours		
	LC50	Fish ( <i>Primephales promelas</i> )	463	0 mg/l, 96 hours		
Persistence and degradability	No data availa	ble.				
Bioaccumulative potential	No data availa	ble.				
Mobility in soil	Not available.					
Mobility in general	The product is	soluble in water.				
Other adverse effects		The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.				
13. Disposal consideration	ns					
Disposal instructions	instruments ar	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contaminated instruments and surfaces should be disinfected in accordance with your employer's chemical-specific and universal/standard precautions.				
Hazardous waste code	The waste cod	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.				
Waste from residues / unused products		cordance with all applicable reg	julations.			
Contaminated packaging	Empty contain	ers should be taken to an appr	oved waste han	dling site for recyc	ling or disposal.	
	· •				CDC LIC	

Recombinant Human Factor VIIa SDS US

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

(SDWA)

Not regulated.

**US state regulations**This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not Listed.

#### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*AustraliaAustralian Inventory of Chemical Substances (AICS)YesCanadaDomestic Substances List (DSL)Yes

Recombinant Human Factor VIIa SDS US

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes

Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes **Philippines** Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

## 16. Other information, including date of preparation or last revision

01-December-2017 Issue date **Revision date** 24-October-2017

Version # 02

NFPA ratings



#### **Disclaimer**

The information above is provided in good faith. It is believed to be accurate and represents the best information currently available to us. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER TYPE, EXPRESSED OR IMPLIED, WITH RESPECT TO PRODUCTS DESCRIBED OR DATA OR INFORMATION PROVIDED, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OF SUCH PRODUCTS, DATA OR INFORMATION. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall BioMedica Diagnostics be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if BioMedica Diagnostics has been advised of the possibility of such damages.

SDS US Recombinant Human Factor VIIa

Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).