

## SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

Recombinant Human Factor VIIa

of the mixture

Registration number

Synonyms None.

Product code 407REC/N

Issue date 01-December-2017

Version number 02

Revision date 24-October-2017 Supersedes date 21-July-2015

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Research use only.

Uses advised against

Use in accordance with supplier's recommendations.

1.3. Details of the supplier of the safety data sheet

Corporate Headquarters BioMedica Diagnostics Inc.

94 Wentworth Road, PO Box 1030

Windsor, Nova Scotia CANADA B0N 2T0

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

Corporate Fax: 1-902-798-1025 Email: info@biomedicadiagnostics.com Website: www.biomedicadiagnostics.com

1.4. Emergency telephone

number

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

International +1-813-248-0585 Australia 1-300-954-583

Brazil 0-800-591-6042 China 400-120-0751 India 000-800-100-4086 Mexico 01-800-099-0731

Contract number MIS9591327

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

# Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Health injuries are not known or expected under normal use. Occupational exposure to the

substance or mixture may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictogramsNone.Signal wordNone.Hazard statementsNone.

**Precautionary statements** 

**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.

Supplemental label information None.

**2.3. Other hazards** Not a PBT or vPvB substance or mixture.

Recombinant Human Factor VIIa SDS UK

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Calcium chloride	15- 25	10043-52-4	01-2119494219-28-XXXX	017-013-00-2	
Classification:	Eye Irrit. 2, H319	233-140-8			
Sodium chloride	40 - 50	7647-14-5	01-2119485491-33-XXXX	-	
Classification:	-	231-598-3			
Glycylglycine	15 - 25	556-50-3	-	-	
Classification:	-	209-127-8			

## List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

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

percent by volume. The full text for all H-statements is displayed in section 16.

#### **SECTION 4: First aid measures**

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

protect themselves.

4.1. Description of first aid measures

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

continues.

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.

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

4.2. Most important symptoms

and effects, both acute and delayed

Dust may cause eye, skin and respiratory tract irritation.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically.

## SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising from the substance or mixture Sodium oxides.

5.3. Advice for firefighters

Special protective equipment 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.

Special fire fighting

procedures

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

## **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the For non-emergency

personnel

SDS for additional personal protection advice when handling this product.

Use personal protection recommended in Section 8 of the SDS. For emergency responders

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

6.3. Methods and material for containment and cleaning up Avoid dust formation. Sweep or scoop up and remove.

SDS UK Recombinant Human Factor VIIa

6.4. Reference to other

For personal protection, see Section 8 of the SDS. For waste disposal, see Section 13 of the SDS.

sections

## SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid prolonged exposure. Avoid contact with skin and eyes.

7.2. 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.

7.3. Specific end use(s) Research use only.

# **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring** 

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available. Predicted no effect

concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

No special ventilation requirements.

controls

#### Individual protection measures, such as personal protective equipment

Personal protective equipment should be chosen according to the CEN standards and in **General information** 

discussion with the supplier of the personal protective equipment.

Eve/face protection Wear dust-resistant safety goggles.

Skin protection

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

recommended.

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

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

with particle filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure** 

controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

White powder. **Appearance** 

Physical state Solid. Form Powder Colour White. Odour None.

Not available. **Odour threshold** 

pН 6.7

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

range

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

Not available. Flammability limit - lower

(%)

Not available Flammability limit - upper

(%)

Recombinant Human Factor VIIa SDS UK Vapour pressure
Not available.
Vapour density
Not available.
Relative density
Not available.
Solubility(ies)
Water soluble.
Partition coefficient
(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Not available.

Not explosive.

Oxidizing properties

Not oxidising.

**9.2. Other information**No relevant additional information available.

# **SECTION 10: Stability and reactivity**

**10.1. Reactivity** Stable at normal conditions.

**10.2. Chemical stability** Material is stable under normal conditions.

10.3. Possibility of hazardous Does not occur.

reactions

**10.4. Conditions to avoid** Keep away from heat.

**10.5. Incompatible materials** Strong oxidising agents. Strong acids.

**10.6. Hazardous** Carbon oxides.

decomposition products

# **SECTION 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** Mechanical irritation of skin, eyes and respiratory system: cough, shortness of breath; redness.

#### 11.1. Information on toxicological effects

**Acute toxicity** May cause discomfort if swallowed. May cause irritation of respirator tract. May be irritating for the skin.

Components	Species	Test results		Species	Test results		
Sodium chloride (CAS 7647-14-5)		Calcium chloride, anhydrous (CAS 10043-52-4)					
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 irr		e skin. Prolonged eye con		act may cause irrita	ation.		
Serious eye damage/eye irritation	Dust may irritate the eyes.		Severe eye irritant.				
Respiratory sensitisation	tory sensitisation Not classified.		Not classified.				
Skin sensitisation	Skin sensitisation Not classified.		Not classified.				
Germ cell mutagenicity	Not classified.		Not classified.				
Carcinogenicity	Not classified.		Not classified.				
Reproductive toxicity	Not classified.		Not classified.				
Specific target organ toxicity - single exposure	Not classified.		Not classified.				
Specific target organ toxicity - Not classified. repeated exposure			Not classified.				
Aspiration hazard	Not classified.		Not classified.				

Recombinant Human Factor VIIa SDS UK

Mixture versus substance

information

Not available. Not available.

Other information No other specific acute or chronic health impact noted.

## **SECTION 12: Ecological information**

### 12.1. Toxicity- Components

	Species	Test results		Species	Test results	
Sodium chloride (CAS 7647-14-5) EC50:			Calcium chloride, anhydrous (CAS 10043-52-4)			
Aquatic	Water flea (Daphnia magna)	) 874 mg/l,		Water flea (Daphnia magna)	EC50: 2400 mg/l, 48hr	
		48 hr		Algae (Pseudokirchneriella s.)	EC50: 2900 mg/l, 72hr	
42.2 Barrietanas and				Fish (Primephales promelas)	LC50: 4630 mg/l, 96hr	
12.2. Persistence and degradability	No data available.			Inorganic product.		
12.3. Bioaccumulative potential No data available.				Not expected.		
Partition coefficient n-octanol/water (log Kow)	Not available.			Not available.		
Bioconcentration factor (BCF)	Not available.			Not available.		
12.4. Mobility in soil	Not available.			Not available.		
Mobility in general	The product is soluble in water.			The product is soluble in water.		
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.		Not a PBT or vPvB substance or mixture.			
12.6. Other adverse effects	The product is not classified as environmentally hazardous.		WGK class (DE):1 (Weak water pollutant). Water damaging (NL): 12 Decontamination exertion (NL): C			

## **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

**Residual waste** Dispose in accordance with all applicable regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code**The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

**Disposal methods/information** 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.

## **SECTION 14: Transport information**

**ADR** 

Not regulated as dangerous goods.

**RID** 

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

14.7. Transport in bulk Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Recombinant Human Factor VIIa SDS UK

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations This product does not meet the criteria for classification according to Regulation (EC) 1272/2008

(CLP Regulation) and Directive 1999/45/EC and their amendments respectively. This Safety Data

Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

National regulations 15.2. Chemical safety

assessment

Follow national regulation for work with chemical agents. No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any H-statements not written out in full under

Sections 2 to 15

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Training information Disclaimer Follow training instructions when handling this material.

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

Recombinant Human Factor VIIa SDS UK

BioMedica Diagnostics has been advised of the possibility of such damages.