BIOMEDICA

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Alpha-Thrombin Human, 2,500 NIH Units

of the mixture

Registration number

Synonyms None.

Product code 470HT, human alpha-thrombin

Issue date 29-January-2019

Version number 03

Revision date 23-January-2019 Supersedes date 01-December-2017

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

Identified uses Research use only.

Uses advised againstUse 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 BON 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

Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects.

2.2. Label elements

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

Hazard pictograms None.
Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

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.

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

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Glycerol	50	56-81-5 200-289-5	-	-	
Classification:	-				

List of abbreviations and symbols that may be used above

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

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

medical attention if irritation develops and persists.

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

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

If material is ingested, immediately contact a physician or poison control centre. Ingestion

Ingestion may cause irritation and malaise.

4.2. Most important symptoms and effects, both acute and

delayed

Provide general supportive measures and treat symptomatically.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards The product is not flammable.

5.1. Extinguishing media

Suitable extinguishing Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the

surrounding fire. media

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising

from the substance or mixture

None known.

5.3. Advice for firefighters

Special protective

equipment for firefighters

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

For non-emergency

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing. personnel

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

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up Absorb spill with vermiculite or other inert material. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

6.4. Reference to other

sections

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

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SECTION 7: Handling and storage

7.1. Precautions for safe

handling

The source material for this product is of human origin and has been found to be non-reactive for Hepatitis B Surface Antigen (HBsAg), Hepatitis C Virus (HCV) and Human Immunodeficiency Virus Type 1 and Type 2 (HIV-1, HIV-2) using registered methods. As no known test method can provide complete assurance that products derived from human specimens will not transmit HBsAg, HCV, HIV-1, HIV-2 or other blood-borne pathogens, this reagent should be handled as recommended for any potentially infectious human specimen. Avoid contact with skin and eyes. Wash thoroughly after handling. In case of insufficient ventilation, wear suitable respiratory equipment. Handle and open container with care.

7.2. Conditions for safe storage, including any incompatibilities

Store at 2-8°C (35-46°F). Store in a closed container away from incompatible materials.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	Form	
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.	
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 controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of

inhalation of vapours.

Individual protection measures, such as personal protective equipment

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

discussion with the supplier of the personal protective equipment.

Eye/face protection Wear approved safety glasses or goggles.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear lab coat or other protective garments. Remove contaminated clothing promptly.

Respiratory protectionUnder normal conditions, respirator is not normally required. **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

Appearance Slightly viscous, colorless solution.

Physical state Liquid.

Form Slightly viscous liquid.

Colour Colourless.

Odour Not available.

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

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.

Not available. Vapour pressure Not available. Vapour density Not available. Relative density Water soluble. Solubility(ies) **Partition coefficient** Not available.

(n-octanol/water)

Oxidizing properties

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

No relevant additional information available. 9.2. Other information

SECTION 10: Stability and reactivity

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

Stable under normal storage and handling conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid None under normal conditions.

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

10.6. Hazardous None expected under normal conditions of use.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Vapours may irritate throat and respiratory system and cause coughing.

Skin contact Prolonged skin contact may cause redness, irritation and dry skin.

Splashes in the eyes may cause redness and irritation. Eye contact

May cause discomfort if swallowed. Ingestion

Symptoms Ingestion may cause irritation and malaise.

11.1. Information on toxicological effects

May cause discomfort if swallowed. **Acute toxicity**

Skin corrosion/irritation Prolonged skin contact may cause redness, irritation and dry skin.

Serious eye damage/eye

irritation

May cause eye irritation.

Not classified. Respiratory sensitisation Skin sensitisation No data available. Germ cell mutagenicity Not classified. Not classified. Carcinogenicity Not classified. Reproductive toxicity Not classified. Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not classified. **Aspiration hazard** Not available. Mixture versus substance

information

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

SECTION 12: Ecological information

12.1. Toxicity No ecotoxicity data noted for the ingredient(s).

12.2. Persistence andNo data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

Mobility in general The product is soluble in water.

12.5. Results of PBT

and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effectsThe 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose in accordance with all applicable regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions)

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

EU waste codeWaste codes should be assigned by the user based on the application for which the product was

used

Disposal methods/information Dispose in accordance with all applicable regulations. Contract with a licensed chemical disposal

agency.

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

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

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

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

Follow national regulation for work with chemical agents.

(CLP Regulation) and Directive 67/548/EEC 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

No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations

DNFI: 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

None.

Training information Follow training instructions when handling this material.

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