

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Human Kallikrein, 1 mg

of the mixture

Registration number

Synonyms None. **Product code**

01-December-2017 Issue date

02 Version number

Revision date 12-July-2017 Supersedes date 22-June-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

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

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

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 Avoid contact with eyes and skin. Do not ingest or inhale.

2.2. Label elements

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

None. **Hazard pictograms** Signal word None.

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

Precautionary statements

Prevention Observe good laboratory hygiene practices.

Response Wash with plenty of water.

Store away from incompatible materials. Storage

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

Supplemental label information

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
Sodium chloride	1 - 5	7647-14-5 231-598-3	01-2119485491-33-XXXX	-	
Classification:	-				

Composition comments

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.

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

4.2. Most important symptoms and effects, both acute and

delayed

Ingestion may cause irritation and malaise.

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 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.

Unsuitable extinguishing

media

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 personnel

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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

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

sections

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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 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

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 protection Under normal conditions, respirator is not normally required. Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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

Clear, colorless solution. **Appearance**

Physical state Liquid. **Form** Liquid. Not available. Colour

Odour None.

Odour threshold Not available.

5.3 pН

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

range

Flash point Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits Flammability limit - lower Not available.

(%)

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926757 Version #: 02 Flammability limit - upper

(%)

Not available.

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

(n-octanol/water)

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

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

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

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

10.3. Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

None under normal conditions. 10.4. Conditions to avoid

10.5. Incompatible materials Strong oxidizers, strong acids, and strong bases. 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.

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

Ingestion May cause discomfort if swallowed.

Symptoms Ingestion may cause irritation and malaise.

11.1. Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components **Species** Test results

Sodium chloride (CAS 7647-14-5)

Acute Dermal

LD50 Rabbit > 10000 mg/kg

Oral

LD50 Rat > 3980 mg/kg

Other

LD50 Mouse 2602 mg/kg

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

Serious eye damage/eye

irritation

May cause eye irritation.

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

single exposure

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Revision date: 12-July-2017 926757 Version #: 02 Issue date: 01-December-2017 Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not classified. Not available Mixture versus substance

information

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

Not available.

SECTION 12: Ecological information

12.1. Toxicity

Components **Species Test results**

Sodium chloride (CAS 7647-14-5)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 874 mg/l, 48 hours

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil Not available.

The product is soluble in water. Mobility in general

12.5. Results of PBT

and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. 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.

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.

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

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

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.

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926757 Version #: 02 Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed

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

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

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

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 Not listed.

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

Not listed.

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

as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No

1907/2006 as amended.

National regulations Follow national regulation for work with chemical agents. 15.2. Chemical safety No Chemical Safety Assessment has been carried out.

assessment

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

None.

Training information Follow training instructions when handling this material.

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