

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

of the mixture

human Prothrombin

Registration number

egistration number -

Synonyms Zymogen of Thrombin (Factor IIa)

Product code ADG417 Issue date 05.08.2015

Version number 01
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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

Manufacturer/Distributor Sekisui Diagnostics GmbH

Address Kaplaneigasse 35, D-64319 Pfungstadt, Germany

Telephone number +49 (0) 6157- 990899

Website www.sekisuidiagnostics.com

Contact person Martina Klöppinger

e-mail questions@sekisuidiagnostics.com

1.4. Medical Emergency information in case of poisoning: Poison Information Center Mainz (advisory service in German or English language) Phone: +49 (0) 6131 19240

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 Directive 67/548/EEC or 1999/45/EC as amended

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

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

Physical hazards Not classified for physical hazards.

Health hazards Not classified for health hazards.

Environmental hazards Not classified for hazards to the environment.

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

Main symptoms Direct contact with skin and eyes may cause irritation.

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

PreventionNone.ResponseNone.StorageNone.DisposalNone.

Supplemental label information Not applicable.

2.3. Other hazardsNot a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

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

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all R- and H-phrases 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. 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.

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 If material is ingested, immediately contact a physician or poison

control centre.

4.2. Most important symptoms and effects, both acute and

delayed

Direct contact with skin and eyes may cause 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 The product is not flammable.

5.1. Extinguishing media

Suitable extinguishing Extinguish with water spray, carbon dioxide, dry chemical or material media

appropriate.

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

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 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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged exposure. Avoid contact with skin and eyes. 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 bloodborne pathogens, this reagent should be handled as recommended for any potentially infectious human specimen. Observe good laboratory hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store at -20°C. 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

UK. EH40 Workplace Exposure Limits (WELs)

limits

Components 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

Follow standard monitoring procedures.

procedures Derived no-effect level

Not available.

(DNEL)

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Predicted no effect concentrations (PNECs) Exposure guidelines

Not available.

Follow standard monitoring procedures.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Provide easy access to water supply and

eve wash facilities.

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
Thermal hazards
Under normal conditions, respirator is not normally required.
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

Physical state Frozen.

Form Liquid.

Colour Colourless.

Odour None.

Odour threshold Not available. Not available. Melting point/freezing point Not available. Initial boiling point and range Not available. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flash point Flammability limit – lower Not available. Evaporation rate Not available. Vap Flammasility limit – upper Net available. Vapour density Not available

Relative density

Not available
Not available
Not available

Partition coefficient (n-octanol/water)

Solubility(ies)

Auto-ignition temperature

Not available

Decomposition temperatureNot availableViscosityNot availableExplosive propertiesNot explosiveOxidizing propertiesNot oxidizing

9.2. Other informationNo relevant additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity The product is non-reactive under normal conditions of use, storage

and transport.

10.2. Chemical stability Material is stable under normal conditions.
 10.3. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

10.4. Conditions to avoidContact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous None known.

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 contactMay cause skin irritation.Eye contactMay cause eye irritation.

Ingestion May cause discomfort if swallowed.

Symptoms Direct contact with skin and eyes may cause irritation.

11.1. Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Skin corrosion/irritation May cause skin irritation.
Serious eye damage/eye May cause eye irritation.

irritation

Respiratory sensitisationNot classifiedSkin sensitisationNot classified.Germ cell mutagenicityNot classified.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Not classified.

Specific target organ toxicity

single exposure

Not classified.

Specific target organ toxicity

repeated exposure

Not classified.

Aspiration hazard

Not classified. Mixture versus substance Not available.

information Other information

No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity 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.

12.2. Persistence and

No data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential Partition coefficient

Not available. Not available.

n-octanol/water (log Kow)

Bioconcentration factor

Not available.

(BCF)

Not available. 12.4. Mobility in soil No data available. Mobility in general

12.5. Results of PBT

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

Not available. 12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose in accordance with all applicable regulations. Empty containers Residual waste

> or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Empty containers should be taken to an approved waste handling site Contaminated packaging

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 Dispose waste and residues in accordance with applicable federal,

state, and local regulations. 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. Not regulated as dangerous goods. **RID** ADN Not regulated as dangerous goods. Not regulated as dangerous goods. **IATA**

IMDG

Code

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Not applicable.

SECTION 15: Regulatory information

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

EU regulations

ADG412 SDS EU Version #: 01 Revision date:.... Issue date: 05.08.2015 page 6 /8 Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

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

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

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 authorisation, as amended Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

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.

National regulations The product has not been classified as dangerous according to the legislation in

force.

15.2. Chemical safety assessment

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. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.

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References

Information on evaluation method leading to the classification of mixture

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

HSDB® - Hazardous Substances Data Bank

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

None.

Training information

Follow training instructions when handling this material.

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