1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

ProductName Kallikrein, from human plasma

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

This substance is not classified as dangerous according to Directive 67/548/EEC.

Other hazards which do not result in classification

Handle as if capable of transmitting infectious agents.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Kininogenin Kininogenase

EC-No.

CAS-No. Classification Concentration Water 7732-18-5 231-791-2 99,367 % **Sodium chloride**

7647-14-5 231-598-3 0,585 %

Kallikrein 9001-01-8 232-574-5 0,028 %

Tris (hydroxymethyl) aminomethane 77-86-1 201-064-4 Xi, R36/37/38 0,02 %

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

In case of eye contact Flush eyes with water as a precaution.

Wash off with soap and plenty of water.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Personal precautions Avoid breathing vapors, mist or gas.

Methods for cleaning up Keep in suitable, closed containers for disposal.

6. ACCIDENTAL RELEASE MEASURES

7. HANDLING AND STORAGE

Handling

Normal measures for preventive fire protection.

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or

type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

no data available no data available

no data available

no data available

Hygiene measures General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form Aqueous solution

Safety data рΗ

Melting point

Ignition temperature Lower explosion limit

Boiling point no data available Flash point no data available

no data available Upper explosion limit Water solubility no data available 10. STABILITY AND REACTIVITY Storage stability Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Materials to avoid Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

Hazardous decomposition products

Acute toxicity no data available

no data available Sensitisation no data available Chronic exposure

Irritation and corrosion

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation

Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Ingestion May be harmful if swallowed.

May be harmful if inhaled. May cause respiratory tract irritation.

Elimination information (persistence and degradability)

Ecotoxicity effects no data available

Further information on ecology

13. DISPOSAL CONSIDERATIONS

no data available

no data available

Product

12. ECOLOGICAL INFORMATION

Observe all federal, state, and local environmental regulations. Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION ADR/RID

IMDG Not dangerous goods

IATA Not dangerous goods

Not dangerous goods

15. REGULATORY INFORMATION Labelling according to EC Directives

Further information: The product does not need to be labelled in accordance with EC directives or respective national laws.

16. OTHER INFORMATION Text of R-phrases mentioned in Section 3

R36/37/38 Irritating to eyes, respiratory system and skin.

Further information

www.lookchem.com

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