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

1.1 Product identifier
Commercial Product Name: Human recombinant laminin-III
Mat.-No./ Genisys-No.: LN111-01
              LN111-02
              LN111-03
              LN111-04

1.2 Relevant identified uses of the substance or mixture and uses advised against
Recommended restrictions on use: For research use only.

1.3 Details of the supplier of the material safety data sheet
Company: BioLamina AB
          Löfströms Allé 5A
          17266 Sundbyberg
          Sweden
          E-mail address: info@biolamina.com
          Telephone: +46858885180
          Telefax: +46851989288

1.4 Emergency telephone number
In case of emergencies: 112
          08-33 1231 (Swedish Poisons Information Centre)
Outside of Sweden: +46 8 33 1231

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)
Not a hazardous substance or mixture.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
SECTION 3: Composition/information on ingredients

3.1 Mixtures
   Hazardous components
   Remarks: No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures
   General advice: Do not leave the victim unattended.
   If inhaled: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
   In case of skin contact: If on skin, rinse well with water.
   In case of eye contact: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
   If swallowed: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed
   None known.

4.3 Indication of any immediate medical attention and special treatment needed
   None

SECTION 5: Firefighting measures

5.1 Extinguishing media
   Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture
   Specific hazards during firefighting: No information available
5.3 Advice for firefighters
Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions
Environmental precautions: No special environmental precautions required.

6.3 Methods and material for containment and cleaning up
Methods for cleaning up: Wipe up with inert absorbent material.

6.4 Reference to other sections
See section 8 for more information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling: Always wear recommended Personal Protective Equipment. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

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

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Keep in a dry, cool and well ventilated place. Keep in properly labelled containers.

7.3 Specific end use(s)
Specific use(s): For research use only

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
Personal protective equipment

Eye protection: Safety glasses
Hand protection: Protective gloves

Material Remarks: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the material safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection: Wear suitable protective clothing
Respiratory protection: No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: liquid

Colour: colourless
Odour: none

Odour Threshold: No data available

pH: 6-8

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper explosion limit: No data available

Lower explosion limit: No data available

Vapor pressure: No data available

Relative vapour density: No data available

Relative density: No data available

Density: 1.0325 g/cm³

Solubility(ies): completely miscible

Water solubility: No data available

Partition coefficient: No data available

n-octanol/water

Ignition temperature: No data available

Auto-ignition temperature: No data available

Thermal decomposition: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: The substance or mixture is not classified as oxidizing

9.2 Other information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions: No dangerous reaction known under conditions of normal use.

Stable under recommended storage conditions.
No hazards to be specially mentioned.

10.4 Conditions to avoid
Conditions to avoid: No data available

10.5 Incompatible materials
Materials to avoid: No data available

10.6 Hazardous decomposition products
Hazardous decomposition: No data available

SECTION II: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
Not classified based on available information.

Skin corrosion/irritation
Not classified based on available information.

Serious eye damage/eye irritation
Not classified based on available information.

Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

**Aspiration toxicity**
Not classified based on available information

### SECTION 12: Ecological information

12.1 **Toxicity**
Contains no substance known to be hazardous to the environment or not degradable in waste water treatment plants.

12.2 **Persistence and degradability**
No data available

12.3 **Bioaccumulative potential**
No data available

12.4 **Mobility in soil**
No data available

12.5 **Results of PBT and vPvB assessment**

*Product:*

*Assessment:*
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 **Other adverse effects**
No data available

### SECTION 13: Disposal considerations

13.1 **Waste treatment methods**

*Product:*
Can be disposed as waste water, when in compliance with local regulations.

*Contaminated packaging:*
Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### SECTION 14: Transport information
14.1 UN number
Not regulated as a dangerous good

14.2 UN proper shipping name
Not regulated as a dangerous good

14.3 Transport hazard class(es)
Not regulated as a dangerous good

14.4 Packing group
Not regulated as a dangerous good

14.5 Environmental hazards
Not regulated as a dangerous good

14.6 Special precautions for user
Remarks : Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Remarks : Not applicable

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals
Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).
Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer
Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants
Not applicable

Not applicable
MATERIAL SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Laminin-III
Version 1.0

Not applicable

Water contaminating class
Not classified

TA Luft List:
Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapour or gaseous form: Not applicable
: Organic substance: Not applicable
: Carcinogenic substances: Not applicable
: Mutagenic: Not applicable
: Toxic to reproduction: Not applicable

15.2 Chemical Safety Assessment
A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information
Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.