1. Product and Company Identification
   Product Name: iMatrix-511 silk
   Supplier: Nippi, Incorporated
   Address: 1-1-1 Senju Midori-cho, Adachi-ku, Tokyo, JAPAN 120-8601
   Division: Biological and Chemical Industry
   TEL: +81-3-3888-5184
   FAX: +81-3-3888-5136
   Product No.: 892 021
   MSDS No.: LN511E8silk001

2. Hazards identification
   Not a hazardous substance or mixture according to the GHS classification.
   Other hazards - none

3. Composition/information on ingredients
   Single or mixture compounds: Mixtures
   Chemical name/General name: Laminin511-E8 fragments
   Components: (1) Laminin511-E8 fragments
     175 μg/ 350μL
     150,000 Da
     Reference number in gazette list in Japan: -
     CAS No.: -
   (2) Disodium Hydrogenphosphate
     606 μg/ 350μL
     141.96 g/ mol
     Reference number in gazette list in Japan: 1-497
     CAS No.: 7558-79-4
   (3) Sodium Dihydrogenphosphate
     327 μg/ 350μL
     119.98 g/ mol
     Reference number in gazette list in Japan: 1-497
     CAS No.: 7558-80-7
   (4) Sodium Chloride
     2,720 μg/ 350μL
     58.44 g/ mol
     Reference number in gazette list in Japan: 1-236
     CAS No.: 7647-14-5
4. First aid measures

Inhaled: Immediately move person into fresh air. Blow nose and rinse mouth. Seek medical attention.
Skin contact: Immediately wash off with soap and running water.
Eye contact: Immediately flush the affected eye as a precaution.
Swallowed: Immediately rinse mouth with water.

5. Firefighting measures

Extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards: No specific fire or explosion hazard
Advice for firefighters: Wear respiratory protective equipment if necessary.
Further information: No data available

6. Accidental release measures

Personal Precautions: Avoid breathing vapor, mist or gas.
Environmental Precautions: Avoid to enter product into drain.
Method for cleaning up: Keep in suitable, closed containers for disposal.

7. Handling and storage

Precautions for safe handling: To avoid skin and respiratory contact with the product, wear protective equipment.
Safe Handling Advice: Wear appropriate protective equipment to avoid contact with ear, skin, clothing, and accidental ingestion.
Conditions for safe storage: Keep container tightly closed in a dark place away from direct sunlight. Refrigerate at (4°C).
Packaging materials: Polyethylene, Polypropylene, Glass, PET, etc.

8. Exposure controls and personal protection

Engineering measures: Any spillage should be contained immediately, and good general ventilation should be sufficient to control worker exposure to airborne contaminants. Designated washing station should be established close to the work station. The product does not contain any substance with occupational hazard exposure limit values.

OSHA PEL: No exposure limits
ACGIH TLV(s): No exposure limits
Japan Society for Occupational Health: No exposure limits
Respiratory protection: Wear dust mask if necessary.
Skin protection: Wear impermeable gloves.
Eye/face protection: Wear goggles if necessary.
Body protection: Wear a protective long-sleeved shirt and long pants.

Nippi, incorporated
9. Physical and chemical properties
   Appearance: Liquid (175 μg/ 350 μL/ vial, Laminin511-E8)
   Color: Clear and Colorless
   Odor: No data available
   pH: 7.0
   Melting point/freezing point: No data available
   Initial boiling point: No data available
   Flash point: No data available
   Spontaneous ignition temp.: No data available
   Explosive properties: No data available
   Vapor pressure: No data available
   Density: No data available
   Solubility: No data available
   Other safety information: No data available

10. Stability and reactivity
    Stability: Stable under recommended storage conditions.
    Possibility of hazardous reactions: No data available
    Conditions to avoid: Sunlight, heat, Alkali and Oxidants
    Hazardous decomposition products: No data available

11. Toxicological information
    Acute toxicity: No data available
    Skin corrosion/irritation: No data available
    Serious eye damage/eye irritation: No data available
    Respiratory or skin sensitisation: No data available
    Germ cell mutagenicity: No data available
    Carcinogenicity – ACGIH: No data available

12. Ecological information
    Toxicity: No data available
    Persistence and degradability: No data available
    Bioaccumulative potential: No data available

13. Disposal considerations
    Waste treatment methods: As specific country, federal, state and local environmental regulations are varied and change frequently, we recommend that you contact your local department for Health Services for information on the correct disposal of this product.
    Contaminated packaging: Dispose of as unused product.
14. Transport information

<table>
<thead>
<tr>
<th>UN number</th>
<th>ADR/RID: -</th>
<th>IMDG: -</th>
<th>IATA: -</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>ADR/RID: Not dangerous goods</td>
<td>IMDG: Not dangerous goods</td>
<td>IATA: Not dangerous goods</td>
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<td>Transport hazard class</td>
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<tr>
<td>Environmental hazards</td>
<td>ADR/RID: -</td>
<td>IMDG: -</td>
<td>IATA: -</td>
</tr>
</tbody>
</table>

15. Regulatory information

OSHAs: No known OSHA hazards

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA Hazards

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information

The information herein does not cover all data on the hazards and toxicology of this product, which requires careful handling.

This Material Safety Data Sheet is prepared based on currently available documents, information and data and does not guarantee the information concerning contents, physical and chemical properties, hazards and toxicology, etc. of the product. The precautions described herein are applicable only to the general handling methods of the product in laboratories; therefore, additional precautions may be necessary, depending on the application of the product in your laboratory.

The information herein is subject to change by legal revisions or new findings.