

SAFETY DATA SHEET

Review Date: August 2nd, 2017 (Ver. 01.03)

SECTION 1. Identification

Product name: iMatrix-511 silk
Product code: 892 021
Synonyms: laminin-511 E8, laminin-10 E8 fragment
Manufacturer: Nippi, Incorporated
Department: Biological and Chemical Products Division
Address: 1-1-1 Senju Midori-cho, Adachi, Tokyo 120-8601, Japan
Phone number: +81-(3)-3888-5184
e-mail: pe-info@nippi-inc.co.jp

SECTION 2. Hazard identification

GHS classification: Not available
Other hazards: None identified

SECTION 3. Composition/Information on ingredients

Substances or Mixtures: Mixtures
(1)
General name: laminin-511 E8 fragment
CAS No.: Not available Molecular weight: about 150,000
Concentration and volume: 0.5 mg/mL, 350 µL/tube
(2)
General name: Sodium phosphate dibasic dodecahydrate
Cas No.: 10039-32-4 Molecular weight: 358.14
Concentration: 2.9 mg/mL
(3)
General name: Potassium dihydrogen phosphate
Cas No.: 7778-77-0 Molecular weight: 136.09
Concentration: 0.2 mg/mL
(4)
General name: Potassium chloride
Cas No.: 7447-40-7 Molecular weight: 74.55
Concentration: 0.2 mg/mL
(5)
General name: Sodium chloride
Cas No.: 7647-14-5 Molecular weight: 58.44
Concentration: 8 mg/mL
(6)
General name: water
Cas No.: 7732-18-5 Molecular weight: 18.0
Concentration: N/A

SECTION 4. First aid measures

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|---------------|---|
| Inhalation: | Remove from exposure area to fresh air immediately. Perform artificial respiration, if necessary. |
| Skin contact: | Immediately wash with water and/or warm water. |
| Eye contact: | Immediately rinse with plenty of water. |
| Ingestion: | Vomit immediately. |

SECTION 5. Fire-fighting measures

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| Fire extinguisher: | Can use all kind of fire extinguisher. |
| Unsuitable fire extinguisher: | Not available |
| Specific noxiousness: | Slightly fire hazard when exposed to heat or flame Dust-air mixtures may ignite or explode. Thermal decomposition products may include noxious carbon monoxide. |
| Fire-fighting: | Use a water and/or fire extinguisher. Move container from fire area, if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Keep upwind avoiding inhalation of hazardous vapors. |
| Protection of worker for fire-fighting: | Recommend that worker wear protective equipment. |

SECTION 6. Accidental release measures

Keep unnecessary people away. Recommend that worker wear protective equipment. Beware adhesion to skin and inhalation of dust. Gather spilled materials and dispose of waste according to Federal, State and Local Regulations. Do not flush spilled material into sewer, because BOD and COD values of the waste-water increase. Wash out small amount of spilled material by water and/or warm water.

SECTION 7. Handling and storage

Handling: Do not get wet strictly. Do not handle by bare hands. Use local exhaust ventilation, if necessary. Recommend that worker wear protective equipment and improve the ventilation of a room.

Storage: Avoid high temperature/humidity. Store at 2 to 15°C. Shipping temperature should be 2 to 30 °C. Avoid sunlight and ultraviolet light. Avoid contact with moisture and/or proteolytic substance. Seal up and store at cool and dark place.

SECTION 8. Exposure controls/personal protection

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| Permissible exposure limit: | Not available |
| Equipment: | Recommend that provide local exhaust ventilation. |
| Respiratory protection: | Dust Masks, respirator. |
| Gloves: | Appropriate protective gloves. |
| Eye Protection: | Safety glasses |
| Clothing: | Appropriate protective (impervious) clothing. |

SECTION 9. Physical and chemical properties

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| Appearance: | Colorless liquid |
| Odor: | Odorless |
| pH: | 7.0 - 7.5 |
| Melting point/freezing point: | Not available |
| Flammability: | Not available |
| Upper/lower flammability or explosive limits: | Not available |
| Relative density: | Not available |
| Partition coefficient: n-octanol/water: | Not available |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |

SECTION 10. Stability and reactivity

- Reactivity: No hazardous reaction for most materials.
- Chemical stability: Stable under normal condition. But decomposed by proteolytic enzymes, acid and alkali.
- Conditions to avoid: May burn but does not ignite readily. Avoid contact with strong oxidizers, open flame, high temperatures, moisture, sparks and the direct rays of the sun.
- Incompatible materials: Not available
- Hazardous decomposition products: Thermal decomposition products may include toxic oxides of carbon.

SECTION 11. Toxicological information

- Acute toxicity: Not available
- Skin corrosion/irritation: Not available
- Serious eye damage/eye irritation: Not available
- Respiratory or Skin sensitization: Not available
- Germ cell mutagenicity: Not available
- Carcinogenicity: Not available
- Reproductive toxicity: Not available
- Specific target organ toxicity – single exposure: Not available
- Specific target organ toxicity – repeated exposure: Not available
- Aspiration hazard: Not available
- Other: The toxicological properties have not been fully investigated. No carcinogenicity of this substance is in the list by OSHA. Special cautions are unnecessary to acute and subacute toxicity, mutagenicity and skin sensitization.

SECTION 12. Ecological information

- Ecotoxicity: Not available
- Persistence and degradability: Biodegradability
- Bioaccumulative potential: Not available
- Movability in the soil: Not available
- Other adverse effects: Not available

SECTION 13. Disposal considerations

Use a large quantity of water to avoid increasing of BOD and COD values. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14. Transport information

- UN Number: Not available
- UN proper shipping name: ADR/RID: Not dangerous goods, IMDG: Not dangerous goods,
IATA: Not dangerous goods
- Transport hazard class: Not available
- Environmental hazards: Not available

SECTION 15. Regulatory information

- OSHA hazards: No known OSHA hazards
- SARA 302 components: Not applicable
- SARA 313 components: Not applicable
- SARA 311/312 components: Not applicable
- California Prop. 65 components: Not applicable

SECTION 16. Other information

No other special information.

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Nippi, Inc. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See our website <http://www.nippi-inc.co.jp/> and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.