

**SAFETY DATA SHEET**

Issue date: 12 Mar. 2020 (Ver. 6)

**SECTION 1. Identification**

Product name: Easy iMatrix-511  
Product code: 892 018, 892 019  
Synonyms: Recombinant human laminin-511 E8 fragment protein  
Application: Culture substrate for iPS cells, ES cells, and laminin-511-adhesive cells  
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: protein-info@nippi-inc.co.jp

**SECTION 2. Hazard identification**

GHS classification: Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)  
Other hazards: Not available

**SECTION 3. Composition/Information on ingredients**

0.5 mg/mL Recombinant human laminin-511 E8 fragment protein  
0.05%(w/v) Recombinant human serum albumin  
Solvent: PBS(-)

**SECTION 4. First aid measures**

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**

Fire extinguisher: Can use all kind of fire extinguisher.  
Specific noxiousness: No information available  
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 materials. 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. Avoid sunlight and ultraviolet light. Avoid contact with moisture and/or proteolytic substance. Keep container tightly closed.

**SECTION 8. Exposure controls/personal protection**

Permissible exposure limit: No data available  
Equipment: Recommend that provide local exhaust ventilation  
Respiratory protection: Masks, respirator  
Gloves: Appropriate protective gloves  
Eye Protection: Safety glasses  
Clothing: Appropriate protective (impervious) clothing

**SECTION 9. Physical and chemical properties**

Appearance: Colorless liquid  
Odor: Odorless  
Melting point/Freezing point: No data available  
Boiling point and range: No data available  
Flammability: No data available  
Upper/lower flammability or explosive limits: No data available  
Flash point: No data available  
Auto-ignition temperature: No data available  
Decomposition temperature: No data available  
pH: 7.0 - 7.5  
Viscosity: No data available  
Solubility: No data available  
Partition coefficient: n-octanol/water: No data available  
Vapor pressure: No data available  
Relative density: No data available  
Relative gas density: No data available  
Particle characteristics: No data 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: Avoid contact with strong oxidizers, open flame, high temperatures, sparks and the direct rays of the sun.  
Incompatible materials: No data available  
Possibility of hazardous reactions: No data available  
Hazardous decomposition products: No data available

**SECTION 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 sensitization: No data available  
Germ cell mutagenicity: No data available  
Carcinogenicity: No data available  
Reproductive toxicity: No data available  
Specific target organ toxicity – single exposure: No data available  
Specific target organ toxicity – repeated exposure: No data available

Aspiration hazard: No data available

## **SECTION 12. Ecological information**

Ecotoxicity: No information available  
Persistence and degradability: No information available  
Bioaccumulative potential: No information available  
Movability in soil: No information available  
Other adverse effects: No information available  
Hazardous to the ozone layer: No information 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 applicable  
Environmental hazards: No information available  
Special precautions for user: Avoid contact with strong oxidizers, open flame, high temperatures, sparks and the direct rays of the sun.  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

## **SECTION 15. Regulatory information**

### Japanese regulations

Fire Service Act: Not applicable  
Poisonous and Deleterious: Not applicable  
Substances Control Law: Not applicable  
Industrial Safety and Health Act: Not applicable  
Regulations for the carriage and storage of dangerous goods in ship: Not applicable  
Civil Aeronautics Law: Not applicable  
Pollutant Release and Transfer Register Law: Not applicable  
Export Trade Control Order: 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 <https://www.nippi-inc.co.jp/english/tabid/74/Default.aspx> and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.