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## Material Safety Data Sheet

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### 1. Identification of the substance

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- Catalog Number: 168111 ~ 168524
  - Product Name: MAPTriX™-M (non-major ECM mimetic mussel adhesive protein)
  - Manufacturer/Supplier:  
Kollodis BioSciences, Inc.  
T) 1.617.283.2182  
Web: [www.kollodis.com](http://www.kollodis.com)
  - Emergency Information: 1.617.283.2182 or 82.2.2258.7539
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### 2. Composition/Information on ingredients

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- Chemical characterization
- Description: Mixture of the substances listed below with nonhazardous additions.  
Recombinant mussel adhesive protein produced from *E.coli* in water.
- Components:

CAS No.	Description	Contents
7732-18-5	water	99.99%

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### 3. Hazards identification

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- Emergency Overview:  
The product contains no substances which at their concentration, are considered to be hazardous to health. However, it may cause allergic response.  
Appearance: Solution  
Color : Transparent  
Order: None
  - Potential Acute Health Effects: Non-corrosive for skin. Non-irritant for skin. Non-sensitizer for skin. Non-permeator by skin. Non-irritating to the eyes.
  - Potential Chronic Health Effect  
Non-corrosive for skin. Non-irritant for skin. Non-sensitizer for skin. Non-permeator by skin. Non-irritating to the eyes.
  - Specific effects:  
Carcinogenic Effects: Not available  
Mutagenic Effects: Not available  
Teratogenic Effects: Not available  
Developmental Toxicity: Not available
  - Repeated or prolonged exposure is not known to aggravate medical condition.
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### 4. First aid measures

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- Eyes: Rinse opened eye for 15 minutes under running water. Then consult a doctor.
  - Skin: Immediately wash skin with water and soap and rinse thoroughly.
  - Inhalation: Seek medical treatment in case of complaints.
  - Swallow: If swallowed, rinse mouth with water (only if the person is conscious).
  - Notes to Physician or Doctor: Show this MSDS.
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## 5. Fire fighting measures

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- Flammability of the Product: Non-flammable
  - Auto-ignition Temperature: Not applicable
  - Flash Points: Not applicable
  - Flammable Limits: Not applicable
  - Products of Combustion: Not applicable
  - Fire Hazards in Presence of Various Substances: Not applicable
  - Explosion Hazards in Presence of Various Substances: Not applicable
  - Fire Fighting Media and Instructions: Not applicable
  - Special Remarks on Fire Hazards: Not applicable
  - Special Remarks on Explosion Hazards: Not applicable
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## 6. Accidental release measures

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- Person-related safety precautions: Not required
  - Measures for environmental protection: Wipe up with damp sponge or mop.
  - Measures for cleaning/collecting: No special measures required.
  - Additional information: No dangerous substances are released.
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## 7. Handling and storage

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- Handling  
Information for safe handling: No special measures required.  
Information about protection against explosions and fires: No special measures required.
  - Storage  
Requirements to be met by storerooms and receptacles: 2-8°C  
Information about storage in one common storage facility: Store away from oxidizing agents.  
Further information about storage conditions: Store in cool, dry conditions in well sealed containers.
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## 8. Exposure controls and personal protection

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- General protective and hygienic measures  
The usual precautionary measures for handling chemicals should be followed.
  - Exposure Limits: Ensure adequate ventilation, especially in confined areas.
  - Personal Protective Equipment  
Eyes: Wear appropriate safety glasses.  
Hands: Wear appropriate chemical resistant gloves.  
Clothing: Wear appropriate protective clothing to prevent skin exposure.  
Respirators: No special measured required  
Body protection: Protective work clothing (lab coat)
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## 9. Physical and chemical properties

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- General Information
    - Form: Liquid
    - Color: According to product specification
    - Odor: Odorless
  - Change in condition: Undetermined
  - Melting point/Melting range: 0 °C (32 °F)
  - Boiling point/Boiling range: Not determined
  - Flash point: Not applicable
  - Auto igniting: Not applicable
  - Danger of explosion: Product does not present an explosion hazard.
  - Vapor pressure at 20 °C (68 °F): Not determined
  - Density at 20 °C (68 °F): ~1 g/cm<sup>3</sup>
  - Water solubility/miscibility: Soluble/miscible
  - pH-value: 6.0 – 7.5
  - Solvent content: Water 100 %
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## 10. Stability and reactivity

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- Thermal decomposition/conditions to be avoid: No decomposition if used according to specifications.
  - Materials to be avoided: strong oxidizers
  - Dangerous reactions: No dangerous reactions known.
  - Dangerous products of decomposition: No dangerous decomposition product known.
  - Polymerization: Hazardous polymerization does not occur.
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## 11. Toxicological information

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- Routes of Entry: Absorbed through skin. Eye contact. Inhalation, Ingestion
  - Potential Health effects:
    - Eyes: No irritating effect
    - Skin: No irritating effect
    - Inhalation/ingestion: not available
  - Chronic Effects on Humans: not available
  - Other Toxic Effects on Humans: Non-corrosive for skin. Non-irritant for skin. Non-sensitizer for skin. Non-permeator by skin.
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## 12. Ecological information:

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- Ecotoxicity: Not available
  - Products of Biodegradation:
    - Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
  - Toxicity of the Products of Biodegradation:
    - The product itself and its products of degradation are not toxic.
  - Special Remarks: The ecological effects have not been thoroughly investigated, but currently none have been identified.
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### 13. Disposal considerations

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- Dispose of in accordance with local regulations.
  - Recommendation:  
Smaller quantities can be disposed of with solid waste.  
This product is not considered a RCRA hazardous waste.  
Dispose of material in accordance with federal (40 CFR 261), state and local requirements.
  - Uncleaned packagings:  
Recommendation: Disposal must be made according to state and federal regulations.  
Recommended cleansing agent: Water, if necessary with cleansing agent
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### 14. Transport information

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- Air transport ICAO-TI and IATA-DGR:  
Proper shipping name: Not classified as dangerous in the meaning of transport regulation.  
ICAO/IATA Class: -  
UN "Model Regulation": -
  - DOT regulations:  
Proper shipping name: not regulated
  - Land transport ADR/RID (cross-border)  
ADR/RID class: -
  - Marine pollutant: No
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### 15. Regulatory Information

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- SARA Section 355 (extremely hazardous substances):  
None of the ingredients is listed.
  - SARA Section 313 (specific toxic chemical listings):  
None of the ingredients is listed.
  - TSCA (Toxic Substances Control Act):  
7 732-18-5Water
  - California Proposition 65 – Chemicals known to cause cancer:  
None of the ingredients is listed.
  - Chemicals Known to cause reproductive toxicity for females:  
None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for males:  
None of ingredients is listed.
  - Chemicals known to cause developmental toxicity:  
None of the ingredients is listed.
  - Carcinogenicity categories:  
ARC (International Agency for Research on Cancer)  
None of the ingredients is listed.
  - NTP (National Toxicology Program):  
None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)  
None of the ingredients is listed.
  - Product related hazard information:  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations pertaining to regulations on hazardous materials.
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## 16. Other information:

This material is sold for research and development purpose only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

To the best of our knowledge, the information contained herein is accurate. However, neither KOLLODIS BIOSCIENCES nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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**End of Safety Data Sheet**

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