
Material Safety Data Sheet

1. Identification of the substance

- Catalog Number: 216001~216005
 - Product Name: MAPTriX™ Linker (polyethylene glycol succinimidyl glutarate)
 - Manufacturer/Supplier:
GenKem Technology, Inc./Kollodis BioSciences, Inc.
T) 1.617.283.2182
Web: www.kollodis.com
 - Emergency Information: 1.617.283.2182 or 82.2.2258.7539
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2. Composition/Information on ingredients

- Chemical characterization
 - Description: Polyethylene Glycol-Succinimidyl Glutarate, MW 20,000
 - Components:
CAS. NO.: 25322-68-3
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3. Hazards identification

- Emergency Overview: As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing
 - Health Rating: 1-slight
 - Flammability Rating: 1-slight
 - Reactivity Rating: 1-slight
 - Contact Rating: 0-None
 - Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation
 - Potential Chronic Health Effect
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

- Eyes: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
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- Skin: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
 - Serious Inhalation: Not available
 - Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
 - Serious Ingestion: Not available
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5. Fire fighting measures

- Flammability of the Product: May be combustible at high temperature
 - Auto-ignition Temperature: Not available
 - Flash Points: Not available
 - Flammable Limits: Not available
 - Products of Combustion: These products are carbon oxides (CO, CO₂)
 - Fire Hazards in Presence of Various Substances:
Slightly flammable to flammable in presence of open flames and sparks, of heat.
Non-flammable in presence of shocks.
 - Explosion Hazards in Presence of Various Substances:
Slightly explosive in presence of open flames and sparks, of heat.
Non-explosive in presence of shocks.
 - Fire Fighting Media and Instructions:
Small fire: Use DRY chemical powder
Large fire: Use water spray, fog or foam. Do not use water jet.
 - Special Remarks on Fire Hazards: As with most organic solids, fire is possible at elevated temperatures or contact with an ignition source.
 - Special Remarks on Explosion Hazards:
Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
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6. Accidental release measures

- Small spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
 - Large spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system
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7. Handling and storage

- Precautions
Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.
 - Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Stored at -20°C for long time storage.
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8. Exposure controls and personal protection

- Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
 - Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
 - Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
 - Exposure Limits: Not available.
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9. Physical and chemical properties

- Physical state and appearance: Solid.
 - Odor: Mild
 - Taste: Not available.
 - Molecular Weight: 1000 g/mole
 - Color: White.
 - pH (1% soln/water): Not available.
 - Boiling Point: Decomposition temperature: >200°C (392°F)
 - Melting Point: 37°C (98.6°F) - 40 C
 - Critical Temperature: Not available.
 - Specific Gravity: 1.12 (Water = 1)
 - Vapor Pressure: Not applicable.
 - Vapor Density: Not available.
 - Volatility: Not available.
 - Odor Threshold: Not available.
 - Water/Oil Dist. Coeff.: Not available.
 - Ionicity (in Water): Not available.
 - Dispersion Properties: See solubility in water.
 - Solubility:
Soluble in cold water, hot water.
Soluble in many organic solvents.
Readily soluble in aromatic hydrocarbons.
Slightly soluble in aliphatic hydrocarbons.
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10. Stability and reactivity

- Stability: The product is stable.
 - Instability Temperature: Not available.
 - Conditions of Instability: Excess heat, incompatible materials
 - Incompatibility with various substances: Reactive with oxidizing agents, acids, alkalis.
 - Corrosivity: Non-corrosive in presence of glass.
 - Special Remarks on Reactivity: Not available.
 - Special Remarks on Corrosivity: Not available.
 - Polymerization: Will not occur.
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11. Toxicological information

- Routes of Entry: Absorbed through skin. Eye contact.
 - Toxicity to Animals:
 - Acute oral toxicity (LD50): 22500 mg/kg [Guinea pig].
 - Acute dermal toxicity (LD50): >20000 mg/kg [Rabbit].
 - Chronic Effects on Humans: Not available.
 - Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.
 - Special Remarks on Toxicity to Animals: Not available.
 - Special Remarks on Chronic Effects on Humans: Not available.
 - Special Remarks on other Toxic Effects on Humans:
 - Acute Potential Health Effects:
 - Skin: May cause slight, mild skin irritation. Unlikely to result in absorption of harmful amounts which may cause hypercalcemia, and hypokalemia
 - Eyes: May cause mild, slight, temporary eye irritation. Corneal injury is unlikely.
 - Inhalation: At room temperature, exposure to vapor is minimal due to low volatility. A single exposure is not likely to be hazardous.
 - Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, flatulence, diarrhea, taste perversion. Very large doses may affect respiration (respiratory depression), kidneys (Oliguria, renal failure, renal tubular necrosis), and liver.
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12. Ecological information:

- Ecotoxicity: Not available.
 - BOD5 and COD: 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 on the Products of Biodegradation: Not available.
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13. Disposal considerations

- Waste Disposal:
 - Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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14. Transport information

- DOT Classification: Not a DOT controlled material (United States).
 - Identification: Not applicable.
 - Special Provisions for Transport: Not applicable.
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15. Regulatory Information

- Federal and State Regulations:
 - Minnesota: Polyethylene glycol
 - TSCA 8(b) inventory: Polyethylene glycol
 - Other Regulations: Not available.
 - Other Classifications:
 - WHMIS (Canada): Not controlled under WHMIS (Canada).
 - DSCG (EEC):
 - This product is not classified according to the EU regulations.
 - Not applicable.
 - HMIS (U.S.A.):
 - Health Hazard: 1
 - Fire Hazard: 1
 - Reactivity: 0
 - Personal Protection: E
 - National Fire Protection Association (U.S.A.):
 - Health: 0
 - Flammability: 1
 - Reactivity: 0
 - Specific hazard:
 - Protective Equipment:
 - Gloves.
 - Lab coat.
 - Dust respirator. Be sure to use an approved/certified respirator or equivalent.
 - Safety glasses.
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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
