



MATERIAL SAFETY DATA SHEET

Bio Resin

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DaniMer 15120
PRODUCT CODES: 15120

MANUFACTURER: DaniMer Scientific, LLC
ADDRESS: 1301 Colquitt Hwy., Bainbridge, GA 39817

Office Phone: 229-243-7075
Lab Phone: 229-243-5977
Emergency Contact: 229-254-0190
Effective Date: December 2011

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

Polylactic acid (CAS # 26100-51-6)
Aliphatic Polyester (trade secret)
Inorganic filler (trade secret)
Aliphatic amide (trade secret)
Modified acrylic copolymer (Trade Secret)

SECTION 3: HAZARDS IDENTIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

POTENTIAL HEALTH EFFECTS

No specific information is available on the acute or chronic health effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may cause irritation. Maybe harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this material.

EYES: May cause slight irritation

SKIN: May cause slight irritation

INGESTION: Minimal hazard expected in normal industrial use

INHALATION: May cause respiratory irritation

CARCINOGENY: None of the components of this material are listed as carcinogen by IARC, NTP or OSHA

SECTION 4: FIRST AID MEASURES

EYES: This product is a solid. Remove as one would any foreign object.

SKIN: In case of contact immediately wash with soap and of water. For contact with molten resin run under stream of water; do not attempt to remove resin from skin. Call a physician.

INGESTION: If swallowed wash out mouth with water provided person is conscience. Do not induce vomiting. Call a physician

INHALATION: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Call a physician.

SECTION 5: FIRE-FIGHTING MEASURES

Foam: Yes

Alcohol foam: Yes



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Carbon dioxide: Yes

Dry chemical: Yes

Water fog: Yes

Other: No

Flash Point: N/A

Flash method: N/A

SPECIAL INSTRUCTIONS: Follow SOP for Class-A fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Product as shipped is not a flammable dust. However, it can become a flammable dust when fines < 200 mesh are suspended in air

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Material is biodegradable, but if spilled should be swept up for reuse or proper disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Do not get in eyes. Do not swallow. Avoid contact with skin and clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. This product may react with strong oxidizing agents and should not be store near such materials. Store in a sprinklered warehouse if feasible.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use local exhaust.

RESPIRATORY PROTECTION: Appropriate respirator selected and used in accordance with OSHA Subpart I (29 CFR 1910.34) when exposure to airborne contaminant is likely to exceed limits for nuisance dusts.

EYE PROTECTION: Safety glasses with side shields.

SKIN PROTECTION: Gloves recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Off-white pellets

ODOR: Minimal

PHYSICAL STATE: Solid

pH AS SUPPLIED: N/A

pH (Other):

BOILING POINT: N/A

F:

C:

MELTING POINT: N/A

F:

C:

FREEZING POINT: N/A

F:

C:

VAPOR PRESSURE (mmHg): N/A

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F:

C:



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VAPOR DENSITY (AIR = 1): N/A

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F:

C:

SPECIFIC GRAVITY (H₂O = 1): N/A

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F:

C:

EVAPORATION RATE: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: Water insoluble

PERCENT SOLIDS BY WEIGHT: N/A

PERCENT VOLATILE: N/A

BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC): N/A

WITH WATER:	LBS/GAL
WITHOUT WATER:	LBS/GAL

MOLECULAR WEIGHT: Not available

VISCOSITY: N/A

@

F:

C:

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Prolonged excessive heat may cause degradation; avoid contact with moisture

INCOMPATIBILITY (MATERIAL TO AVOID): Strongly alkaline or acid conditions; strong oxidizing agents

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Negligible hazard at ambient (< 100° F) temperature. Vapors and aerosols may be formed at elevated temperatures. May cause irritation to skin, eyes mucous membranes and upper respiratory tract. May be harmful if swallowed. To the best of our knowledge, the toxicological properties of this material have not been thoroughly investigated

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Product is biodegradable. However, plastic pellets are defined by US EPA under the Clean Water Act (40 CRF 122.26) as a "Significant Material" which may require storm water permit.

SECTION 12 NOTES: None



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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accord with federal, state and local regulations

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT): Not regulated for this mode of transport.

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG): Not regulated for this mode of transport.

INTERNATIONAL AIR TRANSPORT AUTHORITY (IATA): Not regulated for this mode of transport.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components are listed

SARA Listed: None of the components are reportable

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None of the component listed are reportable

STATE REGULATIONS: None

INTERNATIONAL REGULATIONS: None

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

DISCLAIMER: To the best of our knowledge the information contained herein is accurate. However, Danimer Scientific, LLC does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability is the sole responsibility of the user. All material 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 which exist.