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## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product Name:** L1003 3D Printing Filament

**Product Description:** For fused deposition, modeling (FDM) or fused filament fabrication (FFF) based additive manufacturing and 3D printing processes

| Model Number | Part Number | Model Number | Part Number |
|--------------|-------------|--------------|-------------|
| ECO-BLA-01   | 3PINEA02AA  | ECO-WHI-02   | 3PIEEC01JA  |
| ECO-WHI-01   | 3PINEA01AA  | ECO-BLA-02   | 3PIEEC02JA  |

**Date of issue/Revision Date:** November, 19, 2022

**Manufacturer/Distributor:**

3PI Tech Solutions  
5600 River Rd, Suite 800,  
Rosemont, IL 60018

**For More Information, Call:**

(Monday-Friday, 8:00 AM– 5:00 PM CST)  
Dremel Customer Service  
**(844) 437-6533**

**In Case of Emergency, Call:**

(24 Hours/Day, 7 Days/Week)  
**(877) 303-0891**

### SECTION 2: HAZARDS IDENTIFICATION

**Emergency Overview**

Not likely to be an irritant in the solid form. Burning produces obnoxious and toxic fumes. Avoid prolonged contact with skin and contact with eyes. Not likely to form a dust in the solid filament form.

**Potential Acute Health Effects**

Inhalation: Not likely to form an inhalable dust in the solid filament form and for the intended use. Aerosols generated during printing may cause shortness of breath, tightness of the chest, a sore throat and cough.

Eye: Direct contact with eyes may cause irritation.

Skin: May cause slight skin irritation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Potential Chronic Health Effects**

Carcinogenic Effects: No known carcinogenic effects

Mutagenic Effects: No known mutagenic effects

Teratogenic Effects: No known teratogenic effects

Developmental Toxicity: No known developmental toxicity

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name            | CAS #     | Weight % | Exposure Limits |
|--------------------------|-----------|----------|-----------------|
| Poly (lactic acid) resin | 9051-89-2 | 80-100%  | None            |
| Acrylic polymer(s)       | ~         | 0-20%    | None            |

### SECTION 4: FIRST AID MEASURES

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Call a physician immediately if irritation persists. **Skin contact:** Rinse immediately with plenty of water. If skin irritation persists, call a physician. Cool skin rapidly with cold water after contact with hot polymer.

**Eye contact:** Rinse immediately with plenty of water. Call a physician immediately.

**Ingestion:** Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician immediately.

**Notes for the doctor:** Treat symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

**General Information:** As in any fire, wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Suitable Extinguishing Agents:** Foam. Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol resistant foams are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.

**Products of Combustion:** Burning produces obnoxious and toxic fumes, aldehydes, carbon monoxide (CO), and carbon dioxide (CO<sub>2</sub>).

**Special Fire Fighting Procedures:** Firefighters should wear self-contained breathing apparatus and full firefighting turn-out gear (bunker gear). Keep personnel removed and upwind of fire. Water should be used to keep fire-exposed containers cool.

**Special Remarks on Fire and Explosion Hazards:** Toxic gases/vapors/fumes may emit in a fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**General:** Wear gloves when handling hot melt of the material.

**Environmental precautions:** Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

**Methods and material for containment and cleaning up:** Shovel into suitable container for disposal.

### SECTION 7: HANDLING AND STORAGE

**Precautions:** No special precautions required.

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**Handling:** Wear gloves when handling molten material. Low hazard for usual industrial or commercial handling.

**Storage:** Store in cool place. Keep at temperatures below 122F (50 °C). No special restrictions on storage with other products.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation protection:** Provide good ventilation during 3D printing processes.

**Skin protection:** avoid direct contact to the hot melt of material or wear gloves.

**Eye and face protection:** Safety glasses if necessary.

**General:** Wear protective clothing to prevent contact with hot melt materials.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Filament, Solid

**Color:** Various

**Odor:** Odorless

**pH:** Not applicable

**Melting point:** > 140 °C

**Boiling point:** Not applicable

**Density:** 1.22 g/cm<sup>3</sup>

**Vapor pressure:** Not applicable

**Partition coefficient (n -octanol/water):** Not applicable

**Solubility (ies):** Not determined

**Flash point:** Not determined

**Auto-ignition temperature:** > 350 °C

### SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions

**Polymerization:** Not applicable

**Dangerous Decomposition Products:** Burning produces obnoxious and toxic fumes. Aldehydes. Carbon monoxide (CO). carbon dioxide (CO<sub>2</sub>).

**Conditions to avoid:** Temperatures above 446F (230 °C). Materials to avoid: Oxidizing agents. Strong bases.

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### SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of entry:** N.A.

**Acute toxicity:** Not likely to cause targeted organ effects or skin allergic reactions.

### SECTION 12: ECOLOGICAL INFORMATION

**Mobility:** No data available

**Bioaccumulation:** The main resin is biodegradable.

**Ecotoxicity effects:** Data not available.

### SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. Contact manufacturer if needed.

### SECTION 14: TRANSPORT INFORMATION

**Proper Shipping Name:** Not regulated

**Hazard Class:** Not regulated

**UN. NO.:** Not regulated

**Packing Group:** Not regulated

**IMDG EMS:** Not regulated

### SECTION 15: REGULATORY INFORMATION **European/International Regulations**

This product is on the European Inventory of Existing Commercial Chemical Substances.

#### **European Labeling in Accordance with EC Directives**

Hazard Symbols: N/A

Risk phrases: N/A

Safety phrases: N/A

HMIS (U.S.A.): Health Hazard: 0

Fire Hazard: 1

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 1 Reactivity: 0 Specific

Hazard:

Federal and State Regulations: TSCA 8(b) inventory: Listed

Canada- WHMIS: Not controlled

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### SECTION 16: OTHER INFORMATION

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