

## Safety Data Sheet

In accordance with 29 CFR 1910.1200, ANSI Z400.1-2004, and ISO 11014-1: 1994.

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** 3Dom Fuel™ Pro PLA      **Product Code:** Pro PLA  
**Product Use:** A monofilament designed for 3D printing

**Supplier:** 3Dom Fuel Limited, Units 8-10 Glencrow Business Park, Moville, County Donegal, Ireland F93 DF84  
**Customer Information Center:** +353-74-93-85480 / [sales@3domfuel.eu](mailto:sales@3domfuel.eu)

**Emergency Telephone Numbers (24 hours a day):** +353-74-93-85480

### 2. HAZARDS IDENTIFICATION

**Appearance:** Clear, translucent, opaque, monofilament in its natural state.  
**Color:** Clear Translucent Opaque  
**Physical State:** Solid  
**Solid/Printing Odor:** Sweet

**Potential health effects:**

**Sensitization:** Did not cause sensitization on laboratory animals

**Specific Hazards:** No information available

**Flammability:** Fine dust dispersed in air may ignite

**Environmental**

**Precautions:** Not determined See Section 12 for more information.

NFPA Rating: Data not available  
Health: 1      Flamm: 1      Reactivity: 0  
Special: Not determined

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	OSHA Exposure Limits	ACGIH Exposure Limits
Poly lactide Resin	>85	None	None

**All ingredients in quantities >1.0% (0.1% for carcinogens) that are potentially hazardous per OSHA definitions.**

Other Standards: This material can generate Particulates not Otherwise Classifiable (PNOC). The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15mg/m<sup>3</sup> for total dust and 5mg/nf for the reparable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10mg/rrf for inhalable particulates and 3 mg/m<sup>3</sup> for reparable particulates.

### 4. FIRST AID MESAURES

**Emergency Telephone Numbers (24 hours a day):** +353-74-93-85480

The information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult the Company for Further Information

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NOTIC REGARDING MEDICAL APPLICATION RESTRICTIONS: The company does not recommend any of its products, including samples, for use: (A) in any application which is intended for any internal contact with human body fluids or body tissues (B) as a critical component in any medical device that supports or sustains human life; and (C) specifically pregnant women or in any applications designed specifically to promote or interfere with human reproduction.



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**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

**Skin Contact:** Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Cool skin rapidly with cold water after contact with hot polymer.

**Inhalation:** Move to fresh air. 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 to physician:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flammability:** Auto-ignition Temperature: 388C

### **Flammability Limits in Air:**

Flammable limits in air – lower (%): Not applicable

Flammable limits in air – upper (%): Not applicable

**Suitable Extinguishing Media:** 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.

**Extinguishing media which must not be used for safety reasons:** No information available

Hazardous Decomposition Products: Burning produces obnoxious and toxic fumes Aldehydes Carbon Monoxide (CO) carbon dioxide (CO<sub>2</sub>)

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

**Under Fire Conditions:** Cool containers/tanks with spray water. Water mist may be used to cool closed containers.

**Other Information:** Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protective equipment. See Section 8. Remove all sources of ignition. Avoid dust formation. Avoid contact with skin and eyes. Sweep up to prevent slipping hazard.

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

**Methods for Cleaning up:** Shovel into suitable container for disposal.

## 7. HANDLING AND STORAGE

**Safe Handling Advice:** Avoid contact with skin and eyes. Avoid dust formation. Workers should be protected from the possibility of contact with molten material during fabrication. Low hazard for usual industrial or commercial handling. Use personal protective equipment. See Section 8.

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

Precautions: No special precautions required.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures:** Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide appropriate exhaust ventilation at places where dust is formed.

Control Parameters: None

### Personal Protective Equipment:

**Eye Protection:** Safety glasses with side-shields, goggles.

**Skin and Body Protection:** Impervious clothing

**Exposure Limits:** See Section 2

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear, translucent, opaque

**Color:** Clear, Translucent, Opaque

**Physical State:** Solid

**pH:** Not applicable

**Vapor Pressure:** Not determined

**Vapor Density:** Not determined

**Evaporation Rate:** Not determined

**Density:** Not determined

**Boiling Point/Range:** Not applicable

**Decomposition Temperature:** Not determined

**Melting Point/Range:** Not determined

**Water Solubility:** Insoluble

**Solubility in other Solvents:** None known

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions

**Conditions to Avoid:** Temperatures above 446F (230C)

**Material to Avoid:** Oxidizing agents. Strong bases.

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

**Polymerization:** Not applicable

## 11. TOXICOLOGICAL INFORMATION

**Principle Routes of Exposure:** Eye contact. Skin contact. Inhalation. Ingestion.

**Acute Toxicity:** There were no target organ effects noted following ingestion or dermal exposure in animal studies.

**Local Effects:** Product dust may be irritating to eyes, skin, and respiratory system. Caused mild to moderate conjunctival irritation in eye irritation studies using rabbits. Caused very mild redness in dermal irritation studies using rabbits (slightly irritating). Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Long Term Toxicity:** Did not cause skin allergic reactions in skin sensitization studies using guinea pigs.

**Specific Effects:** Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Burning produces irritant fumes.

**Mutagenic Effects:** Not mutagenic in AMES Tests

**Reproductive Toxicity:** No data is available on the product itself

**Carcinogenic Effects:** No data is available on the product itself

**Target Organ Effects:** There were no target organ effects noted following ingestion or dermal exposure in animal studies.

**Skin:** LD50/dermal/rabbit > 2000 mg/kg

**Ingestion:** LD50/oral/rat > 5000 mg/kg

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## 12. ECOLOGICAL INFORMATION

**Mobility:** NO data available

**Bioaccumulation:** Does not bioaccumulate. Inherently biodegradable

**Ecotoxicity Effects:** EC50/72h/algae > 1100 mg/L

## 13. DISPOSAL CONSIDERATIONS

**Waste from Residues/Unused Products:** In accordance with local and national regulations. Do not contaminate ponds, waterways, or ditches with chemical or used containers. Contact manufacturer.

THE COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information on Ingredients).

**Contaminated Packaging:** Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

## 14. TRANSPORT INFORMATION

**U.S. Department of Transportation (DOT):**

**Proper shipping name:** Not regulated as a hazardous material

**IMDG:**

**Proper Shipping Name:** None Hazard Class: Not regulated

**UN/Id No.:** None packing group: None

**ICAO/IATA:**

**Proper Shipping Name:** None Hazard Class: Not regulated.

**Packing Group:** None

## 15. REGULATORY INFORMATION

(Not meant to be all inclusive—selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the print date shown above. However, now warranty, express, or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

Sara 313 title III: Not Listed

TSCA Inventory List - Listed State

Regulations

California Proposition 65 Not listed

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International Inventories Canada DSL

**Inventory List:** Listed

**Reach/EU EINECS List:** Components are in compliance with and/or listed

**Japan (ECL):** Listed

**Australia (AICS):** Listed

**Korean Chemical Inventory:** Listed

**Philippines (PICCS) Inventory:** Not Listed

**China Inventory of Existing Chemical Substances List:** Listed

## 16. OTHER INFORMATION

**Label Information:** 3Dom Fuel™ Pro PLA

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**Reason for Revisions:** Not applicable

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**Recommended Restrictions:** None

**Prepared by:** 3Dom Fuel Limited

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