



Section 1

Identification of The Substance/Preparation and The Company

Product Name: SKILCRAFT® 3D PLA PRO

Product Code: 1110A01000

Product Use: A monofilament for 3D printing

Product Description: Biodegradable Polymer Filament

Supplier: North Central Site Services, 2121 Reach Road Williamsport, PA 17701 United States

Customer Information Center: www.fed3dsupply.com

Section 2

Hazards Identification

This product is not classed as dangerous according to EEC directives 67/548/EEC and 99/45/EC, including amendments 2001/60/EC and 2006/8/EC. Safety measures used when typically processing thermoplastic melt materials should be adopted. Fumes from melt may cause eye, skin, and respiratory tract irritation. Use local exhaust ventilation. Wear protective clothing. Avoid touching molten material. Eye wash fountains and safety showers must be easily accessible.

Section 3

Composition/information on Ingredients

Chemical Characterization:

Compound of biodegradable polymers

CAS Number:

Poly lactide Resin 9051-89-2

Weight %:

>98

OSHA Exposure Limits:

None

ACGIH Exposure Limits:

None

Dangerous Components:

None

Form:

Filament

Odor:

Slight/none at room temperature

Section 4

First-aid Measures

Transportation Information Chemtrec:

1-800-424-9300.

General Information:

The most likely hazard arises from burns by molten material. Apply copious amounts of cold water and seek medical attention.

Inhalation:

If melt fumes are inhaled move to fresh air and seek medical attention.

Eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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.



Section 5

Fire-fighting Measures

Auto-ignition Temperature:	> 388°C
Explosion Hazards:	None anticipated. Avoid powder generation from filament
Suitable Extinguishing Media:	Foam, Water, Carbon dioxide (CO ₂), Dry Chemical, Alcohol resistant foams are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.
Non-suitable Extinguishing Media:	None known.
Under fire conditions:	Cool containers / tanks with water spray. Water mist may be used to cool closed containers. 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.

Section 6

Accidental Release Measures

Personal Precautions:	User personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Remove all sources of ignition. 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:	Clean up promptly by scoop or vacuum. Sweep up and shovel into suitable containers for disposal.

Section 7

Handling and Storage

Handling:	Use personal protective equipment. Avoid contact with skin and eyes. Low hazard for usual industrial or commercial handling. Workers should be protected from the possibility of contact with molten material during printing. Avoid dust formation. If small particles are generated during further processing, handling, or by other means, combustible dust concentrations in air may form.
Storage:	Store product dry and sealed indoors at room temperature. Avoid temperatures exceeding 50°C. Keep cool. No special restrictions on storage with other products.
Precautions:	No special precautions required



Section 8

Exposure Controls/Personal Protection

Exposure Limit Values:	None
Exposure Controls:	Personal protective equipment
Occupational Exposure Controls:	Not necessary during appropriate use
Environmental Exposure Controls:	Not necessary during appropriate use
Advice for Engineering Controls:	Avoid electrostatic charge. Where available use exhaust ventilation to prevent the build-up of fumes and/or dust

Section 9

Physical and Chemical Properties

General Information:	Pigmented or unpigmented solid material (usually granules/filament)
Odor:	Sweet
Vapor Pressure at 20°C:	Not applicable
Explosiveness:	Not applicable (but avoid dust generation)
Explosive Limit:	Not applicable
Melting Range:	150-180°C/302-356°F
Auto Ignition Point:	>388°C
Density at 20°C:	1.25 g/cm ³
Solubility in Water:	Non-soluble
pH:	Not applicable

Section 10

Stability and Reactivity

Reactivity:	None expected under conditions of normal use.
Chemical stability:	Stale under recommended storage conditions
Conditions to Avoid:	Temperatures above 230°C/446°F. Avoid keeping resin molten for excessive periods of time at elevated temperatures. Prolonged exposure will cause polymer degradation.
Material to Avoid:	Strong acids, bases and oxidizing agents may react with acids with formation of CO ₂



Section 11

Toxicological Information

Principle Routes of Exposure:

Acute Toxicity:

Local Effects:

Specific Effects:

Long Term Toxicity:

Carcinogenic Effects:

Eye contact, skin contact, inhalation, ingestion.

No target organ effects noted following ingestion or dermal exposure in animal studies.

Product dust may be irritating to eyes, skin and respiratory system. Resin particles, like other inert materials, are mechanically irritating to eyes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

May cause skin irritation and/or dermatitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Burning produces irritant flames.

None found

None of the components of this product are listed as carcinogens by IARC, NTP, or OSHA.

Section 12

Ecological Information

Ecotoxicity:

Mobility:

Persistence, Degradability:

Bioaccumulation:

EC50/72h/algae > 1100 mg/L

No data available

No data available

Does not bioaccumulate.

Section 13

Disposal Considerations

Dispose of in accordance with national, state, and local regulations.

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

**Section 14****Transportation 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

Section 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, no 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.

This product is not hazardous according to 67/548/EEC and 99/45/EC, and subsequent amendments.

The substances used in this product comply with the inventory listing of the US Toxic Substances Control Act (TSCA) and are registered according to the European REACH regulations. No substances of very high concern are included.

Section 16**Other Information**