



Section 1

Identification of The Substance/Preparation and The Company

Product Name: SKILCRAFT 3D PAPC **Synonyms:** PAPC II

Product Use: Biomaterial for 3D printing **Product Description:** Cellulosic Fiber composite

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

Customer Information Center: www.fed3dsupply.com

Section 2

Hazards Identification

Route of Entry:	Skin contact, eye contact, and inhalation.
Effects of Acute Exposure:	This material has the potential to cause irritation to the mucus membranes of the eyes, nose, mouth, and lungs during certain uses or processes. Molten polymer may cause severe burns.
Effects of Overexposure:	Prolonged or repeated exposure to vapors or smoke resulting from thermal processing may result in irritation of the upper respiratory tract. Respiratory reactions were observed in laboratory rats exposed to general purpose polypropylene resin at 700° F.
Effect on Eyes:	<input type="checkbox"/> No effect <input type="checkbox"/> Transient <input type="checkbox"/> Possible Irritation <input type="checkbox"/> Severe Irritation <input type="checkbox"/> Corrosive
Effect on Skin:	<input type="checkbox"/> No effect <input type="checkbox"/> Defatting <input type="checkbox"/> Possible Irritation <input type="checkbox"/> Absorption through skin <input type="checkbox"/> Severe Irritation <input type="checkbox"/> Corrosive <input type="checkbox"/> Potential sensitizer <input type="checkbox"/> Known sensitizer
In vitro tests (Ames Test, etc...)	Test: N/A Result: N/A Chronic Effects: N/A
Respiratory Protection:	Respiratory protection approved by NIOSH/MSHA for protection against organic fumes and excessive airborne contaminants. Appropriate respirator depends on type and magnitude of exposure.
Ventilation:	
(X) Local Exhaust:	Required above hot plastic processing areas
(X) Mechanical (general):	Preferred to control general fumes
Protective Gloves:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Specify: Gloves resistant to thermal burns.
Other Protective Equipment:	Safety glasses recommended, emergency eye wash stations should be available in the work areas. Garments for protection against thermal burns to prevent contact with molten polymer must be worn.

Other Precautions:

Wash contaminated clothing before reuse. Wash hands with soap and water prior to food consumption. Respiratory protection for precaution against dust generated during regrinding must be worn

Section 3**Composition/information on Ingredients**

The breakdown of components listed below is for informational purposes only. The finished pelletized product is composed of a dispersion of the non-polymer components encapsulated in polypropylene.

Chemical Name/Description	CAS #	Concentration (%)	OSHA
1. Polypropylene		18-25	Not regulated
2. Cellulosic Fiber		9-15	Total dust: 15 mg/m ³ (particulate NOC)
3. Modified Polyamide	Proprietary	50-75	Not Determined

Section 4**Physical and Chemical Properties****Physical State:** Solid**Specific Gravity, (H₂O = 1):** Not Determined**Vapor Pressure at 23°C:** Negligible**Evaporation Rate at 23°C:** Not Applicable**pH:** Not Applicable**Appearance and Odor:** Natural color**Melting Point:** 161°C (322°F)**Boiling Point:** Not Applicable**Percent Volatile by Volume:** Negligible**Odor Threshold:** Not Available**Vapor Density, (air = 1):** Not Applicable**Solubility in Water at 23°C:** Insoluble**Coefficient of Oil / Water Distribution:** Not Available**Section 5****First-aid Measures****Emergency and First Aid Procedures:****Eye irritation:**

Some individuals with specific sensitivities may exhibit eye, nose, throat, or dermal irritation if overexposed to processing fumes. Flush eyes thoroughly with clean, low-pressure water. If a loose pellet should get into eyes, treat as one would a foreign contaminant and seek medical attention. In case of ingestion, give lots of water and seek medical attention, product in marketed form has minimal toxicity.

Skin irritation:

wash affected areas with soap and water.

Respiratory Irritation:

Leave the exposure area and obtain fresh air. Provide appropriate protection before allowing re-entry. A physician should be contacted if irritation persists.

Other:

Molten resin can cause severe thermal burns, cool quickly with water and seek immediate expert medical attention. Do not peel off solidified material.

Section 6**Fire-fighting Measures****Fire and Explosion Hazard Data**

Flash Point (method used): N/A
()TCC ()TOC ()COC ()PMCC
)Seta

Flammable Limits:
LEL: N/A UEL: N/A

Ignition Temperature: N/A

**Extinguishing Media:
Special Firefighting
Procedures:**

CO₂, Dry Chemical Fog, Water Spray
Polypropylene is a slow burning plastic that generates a thick black smoke. Firefighters must wear self-contained breathing apparatus. Garments for protection against thermal burns are recommended. Eye protection is strongly recommended.

Section 7**Handling and Storage**

Use appropriate personal protection equipment. Store in cool dry place, avoid excessive exposure to fumes released during processing. Avoid processing temperatures exceeding 230°C. Material can accumulate static charges that can cause incendiary electrical discharge. Keep away from sources of ignition and heat. The interior of molten polymer masses may remain hot for some time because of low thermal conductivity, use caution in handling.

Section 10**Stability and Reactivity****Stability:
Conditions to Avoid:**

(X) Stable
None Determined

() Unstable



Incompatibility (Materials to Avoid):
Hazardous Decomposition Products:
Polymerization:
Conditions to Avoid:

Potassium Permanganate, Liquid Chlorine and other strong oxidizers.
CO,CO₂,and Organic Oxidation Products
Hazardous
(X) No
N/A

() Yes

Section 13

Disposal Considerations

Steps to Be Taken in Case Material Is Released or Spilled:

Use appropriate personal protection equipment. If released or spilled, sweep and place in labeled container. Loose pellets may present a slipping hazard, clean immediately. If spilled in water, advise proper authorities and prevent entry into sewer if possible. If public is likely to be affected, notify proper authorities.

Waste Disposal Method:

Reprocessing, recycling, incineration, or landfill in accordance with Local, State, and Federal regulations.

EPA Hazard Substance Category :
(40 CFR 116-117)

() () A () B () C () D (X) N/A
X
() () 2 () 3 () 4 () 5 (X) 6
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Section 14

Preparation Information

The data in this Material Safety Data Sheet applies only to the specific material designated herein and does not relate to use in combination with any other material or process.

Information on this form is furnished solely for the purpose of compliance with OSHA’s Hazardous Communication Standard, 29 CFR 1910.1200, and the Canadian Environmental Protection Act, 1999, and shall not be used for any other purpose. Material Safety Data Sheet (Similar to OSHA form 174)

Prepared by: Robert Joyce

Title: President

Date: July 18, 2018

Section 15

Regulatory Information



The components of this product are either on the TSCA Inventory or exempt. All components in this product are listed on the Canadian Domestic Source List, DSL.

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.