



Torwell Technologies Co., Ltd.

3F, D Bld, Tianshui Tech Park, Weitai Rd, Shiyan, Shenzhen, China

TEL (086)-0755-89487875

FAX (086)-0755-89487876

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## Material Safety Data Sheet Copper PLA filament

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### I. Identification

Chemical name: Copper PLA

Chemical family: Polyester

Common names: Copper, (C<sub>3</sub>H<sub>4</sub>O<sub>2</sub>)<sub>n</sub>

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### II. Components

Chemical Name	Weight	OSHA Exposure Limits:	ACGIH Exposure Limits:
Copper flour	>30%	None	None
Polylactic Acid	<50%	None	None
Typical Antioxidant	<10%	None	None
Typical Pigment	<10%	None	None

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### III. Hazardous Reactivity

Appearance: Solid filament

Density: 1.5g/cm<sup>3</sup>

Melt temperature: 190~240°C

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## **IV. Hazardous Reactivity**

Instability: None.

Incompatibility: Stable.

Decomposition: Slow reaction in the presence of water.

Polymerization: Will not occur, already a polymer.

Combustion: Carbon monoxide and / or carbon dioxide may form during the combustion of this product.

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## **V. Explosion Hazard and Fire Data**

Unusual Explosion Hazard and Fire : The material will burn if exposed to sufficient heat and an ignition source. Avoid dispersion of dust in the air to reduce dust explosion hazard potential.

Extinguished Media: Water, Carbon dioxide, Dry chemical powder, Foam.

Special Extinguishing Procedures: Firefighters must wear self-contained breathing apparatus and fully protective equipment

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## **VI. Health Hazard Data**

Health Hazards: May cause mild skin and eye irritation if reacted with water.

Medical Conditions Aggravated by exposure: None expected based on available information..

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## **VII. Precautions for Safe Handling and Use**

Avoid contact with eyes, skin, and clothing. Avoid breathing dust .Wash thoroughly after handling. Hot and/or melted polymer can severely burn the skin. Handle with care.

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## **VIII. Emergency and First Aid**

Skin Contact: Solid or dust may cause irritation or corneal injury due to mechanical action

Eyes Contact: Essentially nonirritating to skin, Mechanical injury only

Inhalation: No harmful effects expected. Consult a physician.

Swallowing: No harmful effects expected. Consult a physician.

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## **IX. Special Protection Information**

General Control Measures and procedures: None for normal use.

Personal Protective Equipment: Rubber gloves, safety glasses, Respirator.

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## **X. Disposal Information**

Spillage or Release : Collect for disposal. Use appropriate personal protective equipment during clean-up.

Waste disposal: Bury in a landfill in compliance with all federal, state and local regulations. Material is non-hazardous and biodegradable.

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## **XI. Recommended Storage Conditions**

Precautions should be taken in handling and storage: Avoid contacting with atmospheric moisture. Store materials at <60 with a desiccant in original containers to maintain product quality. Keep the container closed until it is ready for use. Purge container with high-purity dry nitrogen after opening, before resealing or repackaging.

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## **XII. Shipping Information**

Shipping Containers: Samples bottles; Moisture proof laminated pouches.

Proper Shipping name: Not regulated as a hazardous by DOT OR IMO.

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**\*\*The Material Safety Data Sheet relates to specific material designated and does not relate to uses in combination with other materials in any other process. The information contained herein is current as of the data of the latest revision.**