



REPRAPPER TECH CO., LIMITED

Unit 04, 7/F, Bright Way Tower, No.33 Mong Kok Road, Kowloon, HK

Phone: (00852) 53372008

Website: <http://www.reprappertech.com/>

Preparation date: January 2015

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: REPRAPPER® Copper PLA 3D FILAMENT

Supplier: REPRAPPER TECH CO., LIMITED, Unit 04, 7/F, Bright Way Tower, No.33 Mong Kok Road, Kowloon, HK

Website: <http://www.reprappertech.com/>

Emergency telephone numbers: (00852) 53372008

2. COMPOSITION, INFORMATION ON INGREDIENTS

Common names: Copper PLA

Chemical formula: Copper, (C₃H₄O₂)_n

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

3. HAZARDS IDENTIFICATION

Eye contact: Contact with eyes may cause irritation.

Skin contact: Substance may cause slight skin irritation.

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

Inhalation: Inhalation of dust may cause horthness of breath, tightness of the chest, a sore throat and cough.

Low hazard for usual industrial or commercial handling.

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

Sensitization: Did not cause sensitisation on laboratory animals.

4. FIRST AID MEASURES

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

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Consult the Company for Further Information.

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NOTICE 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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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

Suitable extinguishing media: Foam. Water. Carbon dioxide (CO₂). 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 (CO₂)

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. 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

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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.

Storage:

Store in cool place. Keep at temperatures below 163 °C

No special restrictions on storage with other products

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, translucent, opaque, pellets.

Color: Clear, Translucent, Opaque

Physical state: Solid

Odor: Sweet

pH: Not applicable

Vapor pressure: Not determined

Vapor density: Not determined

Evaporation rate: Not determined

Density: 1.5 g/cm³

Boiling point/range: Not applicable

Decomposition temperature: 190~240°C

Melting point/range: Not determined

Water solubility: Insoluble

Solubility in other solvents: None known

10. STABILITY AND REACTIVITY

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Stability: Stable under recommended storage conditions

Conditions to avoid: Temperatures above 446F (230 °C).

Materials to avoid: Oxidizing agents. Strong bases.

Hazardous decomposition products: Burning produces obnoxious and toxic fumes.

Aldehydes.

Carbon monoxide (CO). carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Reproductive toxicity: No data is available on the product itself.

Carcinogenic effects: No data is available on the product itself. Mutagenic effects: Not mutagenic in AMES Test.

12. ECOLOGICAL 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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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

In accordance with local and national regulations.

14. TRANSPORT INFORMATION

Not regulated.

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