

Material Safety Data Sheet

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

1.COMPANY IDENTIFICATION

Supplier: Shenzhen ECO Industrial Co.,Ltd

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2.COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Preparation	Substance
Product name	Poly lactide(PLA) Filament
Specifications	Diameter:1.75mm/2.85mm/3.00mm
Impurities Contributing to Hazard	None

3.HAZARD IDENTIFICATION

Most Important Hazards	None
Adverse Human Health Effects	None
Environmental Effects	None
Physical and Chemical Hazards	None

4.FIRST AID MEASURES

Inhalation Contact

In case of gases evolving from melted resin,move subject to fresh air. Treat symptomatically.

Skin Contact

In case of pellets or powder,wash with water. In case of melt,wash effected skin area and clothing with plenty of soap and water.Seek medical advice.

Eye Contact

In case of pellets or powder,flush with plenty of water for at least 15 minutes. Seek medical advice if any dust particles still remain. In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary.

Ingestion

Induce vomiting.Rinse mouth with water. Seek medical advice if necessary.

5.FIRE-FIGHTING MEASURES

Extinguishing Media	Water,Foam,Dry chemical powder
Special Fire-Fighting Procedure	Self contained breathing apparatus
Fire and Explosion Hazards	None

6.ACCIDENTAL RELEASE MEASURES

Methods for Cleaning up	Recovery if not contaminated or Disposal
Personal Precautions	Filament remained on ground may cause slipping
Environmental Precautions	Gather filament thoroughly to avoid birds or fishes taking from draining water

7.HANDLING AND STORAGE

Handling

Prevent from fire around handing area. Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of power, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes,bag filters and hoppers.Use electrically conductive filters for bag filters.

Storage

Keep the materials at a cool dry place. Protect from direct sunlight,rain and violent temperature fluctuation.Fire is inhibited around storage area.

8.EXPOSURE CONTROLS/PERSONAL PRETECTION

Threshold Limit Value	Not determined
Ventilation	Necessary or exclude dust,fumes and gases
Personal Protection	

Eye

Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines.

Respiratory

Wear masks for cleaning molding machines.

Gloves

Necessary for handling melted resin.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	1.75mm/2.85mm/3.00mm plastic solid rod
Color	Transparent, White, Black, Red, Orange and Others
Physical State	Solid
Solubility	Insoluble in water
Specific Gravity	1.25g/cm ³
Melting Point	150-180°C
Auto ignition	388°C
Glass Transition temperature	55-60°C

10. STABILITY AND REACTIVITY

Flammability	Yes
Stability	Stable under recommended storage conditions
Conditions to avoid	Temperature above 240°C
Materials to avoid	Oxidizing agents. Strong bases.
Thermal Decomposition	Gases CO CO ₂

11. TOXICOLOGICAL INFORMATION

Irritation	Fumes or vapors generated from decomposing filament may be irritant to eyes.
Acute oral toxicity(LD50)	Not determined.
Mutagenicity	Not determined.

12. ECOLOGICAL INFORMATION

To avoid being taken by ocean species or birds,disposal of the waste to the ocean and water sources is inhibited.

13.DISPOSAL CONSIDERATIONS

Controlled incineration or landfill according to local,state or national laws and regulations concerning health and pollution.

Inadequate incineration may generate toxic gases such as CO and CO₂.

14.TRANSPORT INFORMATION

Not classified.

15.REGULATORY INFORMATION

Not available.

16.OTHER INFORMATION

None.
