Material Safety Data Sheet

1.COMPANY IDENTIFICATION

Supplier: Shenzhen ECO Industrial Co.,Ltd

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2.COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Preparation	Substance
Product name	Flame Retardant ABS Filament
Specifications	Diameter:1.75mm/2.85mm/3.00mm
Color	Off White/Black
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 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 PREOTECTION

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	Off white/Black
Physical State	Solid
Melting Temperature	Softening above 100℃
Solubility	Insoluble in water
Specific Gravity	1.1650 ~ 1.1950g/cm^3

10.STABILITY AND REACTIVITY

Flame Rating UL94 IEC 60695-11-1-,-20

1.50mm All V-0 2.50mm All V-0 5VA 3.00mm All V-0 5VA

Stability Stable under recommended storage conditions

Materials to avoid Oxidizing agents.Strong bases.

Dust Explosion Possible if powder exists.

Explosion data for powder (< 145 mesh)

Lower explosion limit 45 g/m3

Minimum ignition energy 3.6 mJ

Maximum explosion pressure 7 x 105 Pa

Maximum pressure increase rate 3.2 x 107 Pa/S

Thermal Decomposition Gases CO, HCN, AN, SM and NO

Combustion Energy 3.53 x 107 J/kg (8424 Kcal/kg)

11.TOXICOLOGICAL INFORMATION

Irritation Tetrabromobisphenol A : Slightly irritant to eyes and skin.

Acrylonitrile-butadiene-styrene copolymer:Fumes or vapors generated from decomposing resins may be irritant to eyes.

Acute oral toxicity (LD50)

Tetrabromobisphenol A : Weak

Acrylonitrile-butadiene-styrene copolymer : Not determined

Mutagenicity Tetrabromobisphenol A : Not determined

Acrylonitrile-butadiene-styrene copolymer : 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 HCN AN SM and CO_2.

14.TRANSPORT INFORMATION

Not classified.

15.REGULATORY INFORMATION

Not available.

16.OTHER INFORMATION

None.