

Shenzhen Esun Industrial Co., Ltd. Nov. 2014

Wuhan University Building A403-I, No.6 Yuexing 2 Road,

Nanshan District, Shenzhen, China

TEL (086)-0755-26031978 FAX (086)-0755-26031982

CAS-9003-55-8

Material Safety Data Sheet -PETG filament

1. CHEMICAL PRODUCT/ COMPANY NAME

Substance or Preparation Substance

Chemical Name: PET(Polyethylene Terephthalate)

Product Description: Engineered Plastics.

Product Use: May be used to produce moded or extruded articles or as a component

of other industrial products.

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2. Composition/Ingredient Information

%	Materials	CAS Number
>80%	PET(Polyethylene Terephthalate)	25038-59-9
<12%	Toughener/Impact modifiers(Rubber)	25053-09-2
<5%	Compatibilizer, lubricators, colorants, and stabilizers	Non-regulated
<4%	Titanium Doxide(TiO2)	13463-67-7
<2%	Carbon Black	1333-86-4

3. HAZARDS IDENTIFICATION

Emergency Overview:

PETG filament whith slight or no odor. Spilled filaments create slipping hazard. Can burn in a fire creating dense toxic smoke. Molten plastic can cause severe thermal burns. Fume produced during melt processing may cause eye, skin and respiratory tract irritation. Secondary operations, such as grinding, sanding or sawing, can produce dust which may present a respiratory hazard. Product in filament form is unlikely to cause irritation.

Melt Processing Health Effects:

Molten plastic can cause severe burns.

Processing fumes may cause irritation to the eyes, skin and respiratory tract, and in cases of severe overexposure, nausea and headache.



Medical Restrictions: There are no known human health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing fumes.

4. FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call

a physician.

Skin: The compound is not likely to be hazardous by skin contact, but

cleaning the skin after use is advisable. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin.

Obtain medical treatment for thermal burn.

Ingestion: No specific intervention is indicated as compound is not likely to be

hazardous by ingestion. Consult a physician if necessary.

Inhalation: No specific intervention is indicated as the compound is not likely to be

hazardous by inhalation. Consult a physician if necessary. If exposed to fumes from overheating or combustion, moved to fresh air. Consult a

physician if symptoms persist.

For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop at a later time. For skin contact with fume condensate, immediately wash thoroughly with soap and water.

If irritation develops, seek medical attention.

5. ACCIDENTAL RELEASE MEASURES

General: Review FIRE FIGHTING MEASURES AND HANDLING Sections.

6. HANDLING AND STORAGE

Handling: See FIRST AID and PERSONAL PROTECTION EQUIPMENT

SECTIONS.

Storage: Store in a cool, dry place. Keep containers tightly closed to prevent

moisture absorption and contamination...

7. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Use local ventilation to control fumes from hot processing.

Personal precautions:

Eye/Face: Wear safety glasses. Wear coverall chemical splash

goggles and face shield when possibility exists for eye and face contact due to splashing or spraying of molten material. A full face mask respirator provides protection from eye

irritation.



Skin: If there is potential contact with hot/molten material, wear

heat resistant clothing and footwear.

Respiratory: A NIOSH/MSHA approved air purifying respirator with an

organic vapor cartridge with a dust/mist filter may be permissible under certain circumstances where airbome concentrations are expected to exceed exposure limits. Protection provided by air purifying respirator if there is any potential for an uncontrolled release, exposure levels are not

known, or any other circumstances where air purifying respirators may not provide adequate protection.

8. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Odor: Possibly a slight organic odor.

Melting Point: 230°C -255°C

Specific Gravity(Water=1): >1.1
Water Solubility: Insoluble

% Volatiles: Not Determined

9. STABILITY AND REACTIVITY

Stability: Stable

Polymerization: Poymerization will not occur

Conditions To Avoid: Exposure to open flame or temperatures >570°F for

pro-longed time.

Incompatabilities: Other Materials.

Hazardous Decomposition: Hazardous gasses or vapors can be released, including

cyclopentanone, carbon monoxide, aldehydes, ammonia.

10. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: No Information is available. Toxicity is expected to be low based on insolubility in water.

11. DISPOSAL INFORMATION

Waste Disposal: Preferred options for disposal are (1) Recycling, (2) Incineration

with energy recovery, and (3) Landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal,

state/provincial, and local regulations.



12. TRANSPORTATION INFORMATION

DOT Hazard Class:Not Regulated.Proper shipping name:Not RegulatedIdentification Number:Not Listed

Proper shipping name: None

Hazard Class: Not regulated.

UN-No.: None Packing group: None

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13. REGULATORY INFORMATION

TSCA Status: In compliance with TSCA Inventory requirements for

commercial purposes.

WHMIS Classification: Not a controlled product.

This product does not contain reportable quantities of substances subject to supplier

notification.

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14. OTHER INFORMATION

Medical Use: CAUTION: Do not use in medical applications involving

permanent implantation in the human body.

User Responsibility: Each user should read and understand this information and

incorporate it into individual site safety programs in

accordance with applicable hazard communication standards

and regulations.