SAFETY DATA SHEET

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ESD PETG 3D Printer Filament

PETG compounded with carbon nanotubes (CNT) · Product code CX14

1. Identification

Product identifier	ESD PETG 3D Printer Filament
Product code	CX14
Recommended use	3D printing (FFF/FDM) filament, thermoplastic
Restrictions on use	Not specified
Supplier	COEX LLC, 1228 Elizabeth St, Green Bay, WI 54302, USA
Telephone	(920) 757-1055
Emergency telephone	(920) 757-1055 (business hours)
Website	www.coex3d.com

2. Hazard identification

Classification	The product is not considered hazardous by 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200
Label elements	No data available
Hazards not otherwise classified	No specific dangers known.
Other information	Under hot melt processing conditions wear personal protective equipment to prevent thermal burns. The product is a thermoplastic resin pellet with limited release under normal conditions of use, transportation, and storage. Increased release may occur when the resin pellet (or material/product manufactured from it) is subject to grinding, polishing, excessive heat, or other processes which enhance the potential for the generation of particulates, fumes, and/or vapors. A qualified health specialist should evaluate the specific potential for release under user's conditions of handling of this material.

3. Composition / information on ingredients

Chemical name	CAS No.	Weight %
PETG Copolyester	25640-14-6	80-99
Carbon nanotube	Not assigned	1-20

Proprietary column is blank in both the COEX SDS and the Insight SDS.

4. First-aid measures

Inhalation	If difficulties occur after dust has been inhaled, remove to fresh air and consult a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water when in contact with molten residues. Burns caused by molten material require hospital treatment.
Ingestion	Drink plenty of water. Do not induce vomiting without medical advice. Call a physician immediately.
Most important symptoms	Symptoms: No data available.
Note to physicians	Note to physicians: Treat according to symptoms.

5. Fire-fighting measures

Suitable extinguishing media	Water spray, foam, dry powder
Special hazards	Hazards during fire-fighting: No hazardous combustion products are known. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
Protective equipment	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.
Further information	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions	Spilled filament or pieces may cause a slipping hazard. Ensure adequate ventilation.
Environmental precautions	Do not flush into surface water or sanitary sewer system. Keep out of waterways.
Cleaning up	Pick up or sweep up and place in a suitable container for disposal.

7. Handling and storage

Safe handling	Avoid inhalation of dusts/mists/vapors. Take precautionary measures against static discharges.
Fire and explosion	Dust from grinding or sanding can form an explosive mixture with air. Take precautionary measures against static discharges.
Storage	The product in undamaged packing need not be stored separately. Suitable materials for containers: Low density polyethylene (LDPE), High density polyethylene (HDPE), Aluminum, Carbon steel (Iron) Keep container tightly closed and dry: store in a cool place. Avoid dust formation. Product dust can form an explosive mixture with air. Protect against moisture.
Incompatibilities	No substances known that should be avoided.

8. Exposure controls / personal protection

Exposure limits	Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
Engineering controls	Provide exhaust ventilation if dust or fumes are generated during processing.
Personal protection	Engineering controls: If dust is generated during further processing provide exhaust ventilation. Eye/face protection: Goggles. Safety glasses with side-shields. Skin and body protection: Impervious clothing. Respiratory protection: Minimize dust generation and accumulation. Wear respiratory protection. General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.
Hygiene	Do not eat or drink while working. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	Filament on spool (made from the pellet compound); color: black
Odor	odorless
Odor threshold	Not applicable
pH	Not applicable
Melting temperature	Approximately 260 °C
Freezing point	No data available
Boiling point	Decomposes; not determined
Flash point	not applicable
Evaporation rate	Not applicable (solid)
Flammability	not self-igniting
Explosive limits	No data available
Vapor pressure / vapor density	No data available
Density	No data available
Solubility in water	No data available
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	Thermal decomposition: > 320 °C
Viscosity	Not applicable (solid)
Oxidizing properties	not fire-propagating

10. Stability and reactivity

Reactivity	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability	The product is stable if stored and handled as prescribed/indicated.
Hazardous reactions	The product is chemically stable. No hazardous reactions known.
Conditions to avoid	Temperature: > 320 degrees Celsius
Incompatible materials	No substances known that should be avoided.
Hazardous decomposition products	Carbon monoxide, carbon dioxide

11. Toxicological information

Routes of exposure	Inhalation, ingestion, eye or skin contact.
Acute toxicity	Primary routes of exposure: Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases. Assessment of acute toxicity: Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard. Oral: Practically nontoxic. The product has not been tested. Inhalation: Not inhalable due to the properties of the product. Dermal: Practically nontoxic. The product has not been tested.
Inhalation	Not inhalable in the form supplied.
Irritation	Assessment of irritating effects: Irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes. Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract. Eye: May cause mechanical irritation.
Sensitization, repeated dose, mutagenicity, carcinogenicity, reproductive toxicity	Assessment of sensitization: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. Assessment of mutagenicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. Assessment of carcinogenicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. Assessment of reproduction toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
Aspiration hazard	None expected.

12. Ecological information

Aquatic toxicity	Assessment of aquatic toxicity: The product has not been tested. There is a high probability that the product is not acutely harmful to aquatic organisms.
Persistence and degradability	Assessment biodegradation and elimination (H2O): Experience shows this product to be inert and non-degradable. The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.
Bioaccumulation	The product will not be readily bioavailable due to its consistency and insolubility in water.

13. Disposal considerations

Product	Dispose of in accordance with local, state and federal regulations. Check for recycling options. Do not release into the environment.
Packaging	Empty spools and packaging can be recycled if not contaminated.

14. Transport information

US DOT, IMDG, IATA/ICAO	USDOT: Not classified as a dangerous good under transport regulations. IMDG: Not classified as a dangerous good under transport regulations. IATA/ICAO: Not classified as a dangerous good under transport regulations.

15. Regulatory information

U.S. TSCA	Complies
SARA 313	This product does not contain any chemicals which are subject to the reporting requirements of the ACT and Title 40 of the Code of Federal Regulations, Part 372.

16. Other information

NFPA hazard codes	Health: 1, Flammability: 1, Reactivity: 0
HMIS III rating	HMIS III Rating: Health: 1, Flammability: 1, Reactivity: 0
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Prepared by	COEX LLC

This data is based on the current state of our information and experience.

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Disclaimer: The safety data contained on this data sheet is furnished without charge or obligation and accepted at the recipient's sole risk. This data describes our product in terms of safety requirements. The data provided is not applicable as a warranty of product properties. It is the responsibility of the recipient to observe the existing legal regulations for the use of this product.