SAFETY DATA SHEET

Rev 3.0 · Issue date 10-26-2026 · Supersedes Rev 2.0 (05-12-2025)

COEXNylex™ PA6-CF 3D Printer Filament

Carbon fiber nylon · Product code CX23

1. Identification

Product identifier	COEXNylex™ PA6-CF 3D printer filament (carbon fiber nylon)
Product code	CX23
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	Not classified as hazardous under the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Label elements	None required. No signal word, pictogram or hazard statement.
Hazards not otherwise classified	No specific dangers known.
Other information	Molten material can cause thermal burns. Wear protective equipment when handling hot material.

3. Composition / information on ingredients

Chemical name	CAS No.	Weight %
Nylon (nylon 6 copolymer)	Proprietary	70–95
Carbon fiber	7440-44-0	5–30

Exact nylon identity is withheld as proprietary. The product contains no substances which at their given concentration are considered to be hazardous to health.

4. First-aid measures

Inhalation	If difficulties occur after dust or fumes from processing have been inhaled, move 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	Molten material: cool the skin immediately with cold water. Medical aid may be required to remove adhering material and to treat burns. Solid material: wash with soap and water.
Ingestion	Drink plenty of water. Do not induce vomiting without medical advice. Call a physician immediately.
Most important symptoms	No data available.
Note to physicians	Treat according to symptoms.

5. Fire-fighting measures

Suitable extinguishing media	Water spray, foam, dry powder.
Special hazards	Ammonium hydroxide, carbon monoxide, carbon dioxide, hydrocarbons, nitriles and hydrogen cyanide can be emitted above 320 °C.
Protective equipment	Self-contained breathing apparatus and turnout gear. Do not breathe fumes.
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 contact with molten polymer. Avoid inhalation of dusts, mists and vapors. Print in a well-ventilated area.
Fire and explosion	Dust from grinding or sanding can form an explosive mixture with air. Take precautionary measures against static discharges.
Storage	Keep sealed and dry in a cool place. Protect against moisture. Avoid sources of ignition.
Incompatibilities	No substances known that should be avoided.

8. Exposure controls / personal protection

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.
Eye protection	Safety glasses with side shields.
Skin protection	Heat-protective gloves when handling hot material.
Respiratory protection	Not normally required. If the product is ground or sanded to respirable dust, use respiratory protection under a program that meets OSHA 29 CFR 1910.134.
Hygiene	Do not eat or drink while working. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	Solid filament on spool; black
Odor	Odorless
Odor threshold	Not applicable
pH	Not applicable
Melting temperature	Approximately 195 °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	1.18 g/cm³
Solubility in water	Insoluble
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	Above 320 °C
Viscosity	Not applicable (solid)
Oxidizing properties	Not fire-propagating

10. Stability and reactivity

Reactivity	No hazardous reactions if stored and handled as indicated.
Chemical stability	Stable at recommended storage conditions.
Hazardous reactions	None known.
Conditions to avoid	Temperatures above 320 °C.
Incompatible materials	No substances known that should be avoided.
Hazardous decomposition products	Ammonium hydroxide, carbon monoxide, carbon dioxide, hydrogen cyanide, nitriles.

11. Toxicological information

Routes of exposure	Inhalation, ingestion, eye or skin contact.
Acute toxicity	Contact with molten product may cause thermal burns. The solid product poses a low hazard. Oral and dermal: practically nontoxic; not tested.
Inhalation	Not inhalable in the form supplied.
Irritation	Irritation is possible when the product contacts the skin, respiratory tract or eyes. Thermal decomposition products can irritate the eyes, skin and respiratory tract. Dust may cause mechanical eye irritation.
Sensitization, repeated dose, mutagenicity, carcinogenicity, reproductive toxicity	Based on 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	Not tested. There is a high probability that the product is not acutely harmful to aquatic organisms.
Persistence and degradability	Inert and non-degradable. Virtually insoluble in water; can be separated from water mechanically in suitable effluent treatment plants.
Bioaccumulation	Not 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	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 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	Health 1 · Flammability 1 · Physical hazard 0
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Prepared by	COEX LLC

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

www.coex3d.com
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