SAFETY DATA SHEET

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COEXFlex™ TPE 60D 3D Printer Filament

Thermoplastic copolyester elastomer (TPC-ET) · Product code CX19

1. Identification

Product identifier	COEXFlex™ TPE 60D 3D Printer Filament
Product code	CX19
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	Product hazard category: Combustible dust
Label elements	Label content. Pictogram: not required. Signal word: Warning. Hazardous warnings: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air. Hazardous prevention measures: not required
Hazards not otherwise classified	Other hazards: No applicable data available.
Other information	No applicable data available.

3. Composition / information on ingredients

Chemical name	CAS No.	Weight %

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

4. First-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Skin contact	The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Obtain medical treatment for thermal burn.
Ingestion	No specific intervention is indicated. Consult a physician if necessary.
Most important symptoms	No applicable data available.
Note to physicians	No applicable data available.

5. Fire-fighting measures

Suitable extinguishing media	Suitable extinguishing media: Water, Foam, Dry chemical, Carbon dioxide (CO2). Unsuitable extinguishing media: No applicable data available.
Special hazards	Combustible. Large molten masses may ignite spontaneously in air. Water quenching is good practice. Minimize the generation and accumulation of dust. Failure or malfunction of temperature control systems on processing equipment, such as extruders, may create explosion hazards. Hazardous combustion products may include: (see also section 10) Carbon monoxide, Carbon dioxide.
Protective equipment	Wear self-contained breathing apparatus and protective suit. Further information: Evacuate personnel and keep upwind of fire.
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	Open container only in well-ventilated area. Wash hands thoroughly after handling. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. Do not breathe dust. Pneumatic conveying and other mechanical handling operations can generate combustible dust. Minimize the generation and accumulation of dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Handling (Physical Aspects): No applicable data available. Dust explosion class: No applicable data available.
Fire and explosion	Dust from grinding or sanding can form an explosive mixture with air. Take precautionary measures against static discharges.
Storage	Store in a cool, dry place. Keep container closed to prevent contamination. Keep in an area equipped with sprinklers. Storage period: No applicable data available. Storage temperature: No applicable data available.
Incompatibilities	Strong acids, Strong bases, Strong oxidizing agents

8. Exposure controls / personal protection

Exposure limits	This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012. Non-Constituent(s), Dust (inhalable and respirable fraction): PEL (OSHA) 50 Million particles per cubic foot TWA total dust; PEL (OSHA) 15 mg/m3 TWA total dust; PEL (OSHA) 5 mg/m3 TWA respirable fraction; PEL (OSHA) 15 Million particles per cubic foot TWA respirable fraction; TLV (ACGIH) 3 mg/m3 TWA Respirable particulate matter; TLV (ACGIH) 10 mg/m3 TWA Inhalable particulate matter
Engineering controls	Provide exhaust ventilation if dust or fumes are generated during processing.
Personal protection	Respiratory protection: Additives in this product do not present a respiration hazard unless the product is ground to a powder of respirable size and the dust is inhaled. All dusts are potentially injurious to the respiratory tract if respirable particles are generated and inhaled. A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer. Use a positive pressure air supplied respirator if exposure levels are not known or there are any other circumstances where air purifying respirators may not provide adequate protection. Consult the OSHA respiratory protection information located at 29CFR 1910.134. Hand protection: Wear leather or cotton gloves when grinding, sawing, routing, drilling or sanding. When handling hot material, use heat resistant gloves. Eye protection: Wear safety glasses with side shields. Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material. A full-face mask respirator provides protection from eye irritation. Skin and body protection: If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.
Hygiene	Do not eat or drink while working. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	Physical state: solid. Form: pellets. Color: natural
Odor	none
Odor threshold	Not applicable
pH	Not applicable
Melting temperature	Melting point/freezing point: Melting point/range > 130 °C (> 266 °F)
Freezing point	No data available
Boiling point	Decomposes; not determined
Flash point	Not applicable
Evaporation rate	Not applicable (solid)
Flammability	Flammability (solid, gas): May form combustible dust concentrations in air during processing, handling or other means.
Explosive limits	No data available
Vapor pressure / vapor density	No data available
Density	Specific gravity (Relative density): >1
Solubility in water	Water solubility: insoluble. Solubility(ies): No applicable data available. Partition coefficient: n-octanol/water: No applicable data available. pH: Not applicable
Partition coefficient	No data available
Auto-ignition temperature	Self-ignition: Not applicable
Decomposition temperature	>275 °C. Thermal decomposition of the resin accelerates above temperature listed. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.
Viscosity	Not applicable (solid)
Oxidizing properties	No data available

10. Stability and reactivity

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	Stable at normal ambient temperature and pressure.
Hazardous reactions	Polymerization will not occur.
Conditions to avoid	Temperature > 275 °C (> 527 °F). Heating in air. Abnormally long processing time or high temperatures can produce irritating and toxic fumes. Decomposes on heating. At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin accelerates. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.
Incompatible materials	Strong acids, Strong bases, Strong oxidizing agents
Hazardous decomposition products	Hazardous thermal decomposition products may include: Tetrahydrofuran, Carbon dioxide, Carbon monoxide, 2-Methylpropene, Acetaldehyde, Acrolein, Propionaldehyde, Acetic acid, Formic acid...%

11. Toxicological information

Routes of exposure	Inhalation, ingestion, eye or skin contact.
Acute toxicity	Further information: No data is available on the product itself. For additional toxicity data, write to the company address or call the non-emergency number shown in Section 1. (Section 11 of this SDS version contains no acute toxicity, irritation or sensitisation entries.)
Inhalation	Not inhalable in the form supplied.
Irritation	No data available
Sensitization, repeated dose, mutagenicity, carcinogenicity, reproductive toxicity	Carcinogenicity: The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition). None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.
Aspiration hazard	None expected.

12. Ecological information

Aquatic toxicity	Additional ecological information: No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.
Persistence and degradability	No data available
Bioaccumulation	No data available

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 dangerous in the meaning of transport regulations.

15. Regulatory information

U.S. TSCA	In compliance with TSCA-active Inventory requirements for commercial purposes.
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

16. Other information

NFPA hazard codes	No data available
HMIS III rating	No data available
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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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