



Material Safety Data Sheet: CX06 HIPS SERIES 3D PRINTING FILAMENT

BASE RESIN: STYRON™ 484 Natural Polystyrene

1. Identification of the substance/preparation and of the company

- 1.1 Trade name: Coex HIPS 3D printer filament
- 1.2 Use of the product: 3D printer filament, thermoplastic.
- 1.3 Supplier: Coex  
660 Corporate WAY  
Pulaski, WI 54162  
Phone: (920) 757-1055

2. Hazards identification

- 2.1 Classification: GHS
- 2.2 Special advice on hazards: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200..

3. Composition / information on ingredients

CAS #	Hazardous Components	Concentration
9003-55-8	Styrene, 1,3-butadiene copolymer	>=94 %
8042-47-5	White mineral oil (petroleum)	<=5.0 %

4. First-aid measures

- 4.1 On skin contact: In case of contact with molten polymer immediately cool the skin with cold water. Medical aid may be required to remove adhering material and for treatment of burns.
- 4.2 After inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- 4.3 On ingestion: If swallowed, wash out mouth with water provided person is conscious. Do NOT induce vomiting.
- 4.4 On eyes contact: In case of contact, immediately flush eyes with copious amounts of water for at least {15} minutes.

5. Fire-fighting measures

- 5.1 Suitable fire extinguishing media: Water spray, chemical powder or carbon dioxide.
- 5.2 Special exposure hazards: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon dioxide. Carbon monoxide.

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- 5.3 Special protective equipment: Self-contained breathing apparatus
- 5.4 Remark: Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. Dense smoke is produced when product burns.

**6. Accidental release measures**

- 6.1 Personal precautions: Spilled material may cause a slipping Hazard.
- 6.2 Methods for cleaning up: Vacuum or sweep up material and place into a suitable disposal container.

**7. Handling and storage**

- 7.1 Handling: Avoid contact with molten polymer. Avoid generation of dust and electrostatic charge.
- 7.2 Storage: Protect against moisture. Store cool and keep packaging closed when not in use. Avoid sources of ignition.

**8. Exposure controls/ personal protection**

- 8.1 Technical safety measures: Use with adequate ventilation. Minimize dust generation and accumulation as combustible dust mixtures may be formed.
- 8.2 Personal safety equipment: Use adequate safety equipment, e.g. protective clothing, eye protection glasses, heat protection gloves. In case of dust formation wear mask with particle filter.
- 8.3 Work hygiene: No eating or drinking during working. Avoid contact of hot material with the skin. Avoid breathing dust and vapors.

**9. Physical and chemical properties**

- 9.1 Form: Spool
- 9.2 Color: Various
- 9.3 Odor: Almost Odorless
- 9.4 Melting Temperature: No test data
- 9.5 Oxidizing properties: Not self-igniting / flammable
- 9.6 Explosions limits: No test data
- 9.7 Density: 1.04 – 10.06 g/cm<sup>3</sup>
- 9.8 Solubility in water: Negligible

**10. Stability and reactivity**

- 10.1 Stability: The product is stable at recommended storage conditions.
- 10.2 Conditions to be avoided: Stable under recommended conditions of storage and handling.
- 10.3 Substances to be avoided: No special recommendations.

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10.4 Hazardous decomposition products:

Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. At temperatures exceeding melt temperatures, polymer fragments can be released. Fumes can be irritating. Decomposition products can include and are not limited to: Combustible gases.

11. Toxicological information

- 11.1 Local irritation: Skin.
- 11.2 Other remarks: Typical for this family of materials. Estimated LD50, Rabbit > 2,000 mg/kg.

Ecological information

11.3 Ecological info:

Data for Component: Styrene, 1,3-butadiene copolymer (9003-55-8) Not expected to be acutely toxic to aquatic organisms. Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

Data for Component: White mineral oil (petroleum) (8042-47-5) Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

11.4 Biological degradation:

Data for Component: Styrene, 1,3-butadiene copolymer(9003-55-8) Based on information for a similar material:

Data for Component: White mineral oil (petroleum)(8042-47-5) Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

11.5 Bioaccumulation:

Data for Component: White mineral oil (petroleum)(8042-47-5) Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).  
Bioconcentration Factor (BCF): 1,900; Fish; Estimated.

12. Disposal considerations

- 12.1 Product: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in {261} CFR Parts {261.3}. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.

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12.2 Uncleaned packaging: Packaging material has to be emptied completely and disposed in accordance with the regulations. Packaging can be recycled if not contaminated.

### 13. Transport information

13.1 Transport regulations: Not classified as hazardous under transport regulations DOT, ICAO/IATA, IMDG/GGVSee, ICAO/IATA

### 14. Regulatory information

14.1 EPA regulations: This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

Acute (immediate) Health Hazard:	No
Chronic (delayed) Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactive Hazard:	No

### 15. Other information

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

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