



MSDS Rev 1.0

Material Safety Data Sheet: CX01 ABS SERIES 3D PRINTING FILAMENT

BASE RESIN: LG CHEM ABS AF 312A

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

- 1.1 Trade name: Coex ABS 3D printer filament
1.2 Use of the product: 3D printer filament, thermoplastic polymer
1.3 Supplier: Coex
1228 Elizabeth ST
Green Bay, WI 54302
Phone: (920) 757-1055

2. Hazards identification

2.1 Threshold Limit

2.2 Effect of overexposure:

- Eye Contact Solid or dust may cause irritation or corneal injury due to mechanical action
- Skin Contact Essentially nonirritating to skin, Mechanical injury only
- Skin Absorption Unlikely due to physical properties
- Ingestion Unlikely due to physical state
- Inhalation Dust may cause irritation to respiratory. In case of breathing, fumes released from heated material may cause respiratory irritation
- Chronic Effects Not Available
- Mutagenicity Not Available

3. Composition / information on ingredients

3.1 Chemical characteristics:

CAS #	Hazardous Components	Concentration
9003-56-9	ABS	70 ~ 90%
79-94-7	Flame Retardants	5 ~ 20%
1309-64-4	Flame Synergists	2 ~ 6 %

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: In case of breathing, fumes released from heated material may cause respiratory irritation. In case of inhaling dense smoke, immediately remove a person to fresh air. If necessary, apply artificial respiration and seek medical attention immediately

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- 4.3 On ingestion: If swallowed, wash out mouth with water provided person is conscious.
Call a physician.
- 1.1 On eyes contact: Immediately rinse eyes with copious amount of running water and seek medical advice

2. Fire-fighting measures

- 2.1 Suitable fire extinguishing media: Usually use water and use extinguishing media appropriate to surrounding conditions
- 2.2 Special exposure hazards: Cool Containers with water spray. In closed stores, provide fire fighter with self-contained breathing apparatus in positive pressure mode
- 2.3 Special protective equipment: Self-contained breathing apparatus

3. Accidental release measures

- 3.1 Personal precautions: Use suitable protective clothing. Avoid eye contact and inhalation of dusts.
- 3.2 Methods for cleaning up: Vacuum or sweep up material and place into a suitable disposal container.

4. Handling and storage

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

5. Exposure controls/ personal protection

- 5.1 Technical safety measures: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations
- 5.2 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.
- 5.3 Work hygiene: No eating or drinking during working. Avoid contact of hot material with the skin. Avoid breathing dust and vapors.

6. Physical and chemical properties

- 6.1 Form: Spool
- 6.2 Color: Black
- 6.3 Odor: Almost Odorless
- 6.4 Melting Temperature: 250 °C
- 6.5 Oxidizing properties: Not self-igniting / flammable

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| 6.6 Explosions limits: | Class = ST2 |
| 6.7 Density: | 1.19 g/cm ³ |
| 6.8 Solubility in water: | Insoluble |

7. Stability and reactivity

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| 7.1 Stability: | The product is stable at recommended storage conditions. |
| 7.2 Conditions to be avoided: | Stable under recommended conditions of storage and handling. |
| 7.3 Substances to be avoided: | No special recommendations. |
| 7.4 Hazardous decomposition products: | |
- Processing fumes evolved at recommended processing conditions may include trace levels of low molecular weight hydrocarbon fragments, carbon dioxide, carbon monoxide and Irritating fumes and gases

8. Toxicological information

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| 8.1 Local irritation: | No data available. |
| 8.2 Other remarks: | No data available. |

9. Ecological information

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| 9.1 Ecological info: | No bioconcentration is expected because of the high molecular weight (MW>1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment |
| 9.2 Biological degradation: | This water insoluble polymeric solid is expected to be inert in the environment. Surface degradation is expected with exposure to sunlight. No appreciable biodegradation is expected. |
| 9.3 Ecotoxicity: | Not Expected to be acutely toxic, but pellets, if ingested by waterfowl or aquatic life, may mechanically cause adverse effects Not Expected to be acutely toxic, but pellets, if ingested by waterfowl or aquatic life, may mechanically cause adverse effects |

10. Disposal considerations

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| 10.1 Product: | Do not Dump into any sewers, on the ground, or into any body of water. |
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- All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with appliance laws are the responsibility solely of the waste generator.
- For unused & uncontaminated product, the preferred options include sending to a licensed, permitted : recycler, reclaim, incinerator or other thermal destruction device.

11. Transport information



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11.1 Transport regulations:

Not classified as hazardous under transport regulations

12. Regulatory information

12.1 Listed below are chemical substances subject to supplier notification requirements.

U.S. REGULATIONS : TSCA INVENTORY STATUS : This product complies with the Chemical Substance Inventory requirements of the US EPA TSCA.

CERCLA SECTION 103 (40CFR302.4) : Not Listed SARA SECTION 313 (40CFR372.65) : Not Listed

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21)

ACUTE : Not Listed CHRONIC : Not Listed FIRE : Not Listed REACTIVE : Not Listed

SUDDEN RELEASE : Not Listed STATE REGULATIONS :

California Proposition 65 : Not Listed EUROPEAN REGULATIONS :

EC NUMBER : Not assigned

This product complies with the requirements of resolution of European Parliament (WE) no. 1907/2006 Dated December 18 2006 concerning REACH (European Union Official Register L396 with its changes In EU Official Register no. L136)

13. Other information

Product should be handled, stored, and used in accordance with the generally accepted industrial hygiene practices and in conformity with all the applicable legal regulations.

The information provided herein is based on the knowledge possessed at this present time from the view point of safety requirements.

It should, therefore, not be construed as guaranteeing specific properties