



MSDS Rev 1.0

Material Safety Data Sheet: CX20 TPE 30D SERIES 3D PRINTING FILAMENT

BASE RESIN: Dupont™ Hytrel 3078

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

- 1.1 Trade name: Coexflex TPE 30D 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: Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
- 2.2 Special advice on hazards: No specific dangers known

3. Composition / information on ingredients

- 3.1 Chemical characteristics:
Copolymer of butylene phthalate and polyalkylene-ether glycol

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. The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable.
- 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.
- 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: No particular hazards known.
- 5.3 Special protective equipment: Self-contained breathing apparatus
- 5.4 Remark: In case of fire and/or explosion do not breathe fumes.

6. Accidental release measures

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| 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

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| 7.1 Handling: | Avoid contact with molten polymer. |
| 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

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| 8.1 Technical safety measures: | General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits. Use local exhaust to completely remove vapors and fumes liberated during hot processing from the work area. |
| 8.2 Personal safety equipment: | Use adequate safety equipment, e.g. protective clothing, eye protection glasses, heat protection gloves. 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. Consult the OSHA respiratory protection information located at 29CFR 1910.134. 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. |
| 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

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| 9.1 Form: | Spool |
| 9.2 Color: | Various |
| 9.3 Odor: | None |
| 9.4 Melting Temperature: | 150-225C |
| 9.5 Oxidizing properties: | 338 |
| 9.6 Explosions limits: | No test data |
| 9.7 Density: | 1.25 g/cm ³ |
| 9.8 Solubility in water: | Not soluble |

10. Stability and reactivity

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| 10.1 Stability: | The product is stable at recommended storage conditions. |
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- 10.2 Conditions to be avoided: Temperature > 275 °C (> 527 °F) 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.
- 10.3 Substances to be avoided: No special recommendations.
- 10.4 Hazardous decomposition products: Hazardous thermal decomposition products may include: Tetrahydrofuran, Carbon dioxide, Carbon monoxide, Acetic acid, 2- Methylpropene, Acetaldehyde, Formic acid, Acrolein, Propionaldehyde.

11. Toxicological information

- 11.1 Local irritation: None
- 11.2 Other remarks: None

Ecological information

- 11.3 Ecological info:
- 11.4 Biological degradation: This product is not biodegradable.
- 11.5 Bioaccumulation: This product is not biodegradable.

12. Disposal considerations

- 12.1 Product: In accordance with local and national regulations. Should not be released into the environment. Do not contaminate ponds, waterways or ditches with chemical or used container.
- 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: none

15. Other information

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

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