

# SAFETY DATA SHEET

# 3DXFLEX™ TPU+GF30 (30% Glass Fiber Reinforced TPU) 3D Printing Filament

EFFECTIVE DATE: 04/01/2023

**REVISION NUMBER: VI.O** 

## PRODUCT AND SUPPLIER INFORMATION

**Product Identification:** 

Product Name: 3DXFLEX™ TPU+GF30 (30% Glass Fiber Reinforced TPU) Chemical Name: Thermoplastic Polyurethane (TPU)

Recommended Use: Additive manufacturing.

Supplier Information:

3DXTECH 9D4 36<sup>th</sup> Street, Suite B Grand Rapids, MI 49508 (USA) Phone (616) 214-7965 Email: INFD@3DXTECH

## 2 HAZARDS INDENTIFICATION

Regulation (EC) NO 1272/2008: Not classified as a dangerous product.

#### Physical Hazards: None

OSHA Regulatory Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Concentration Range (%)
Thermoplastic Polyurethane Resin	75701-44-9	>65%
Fiberglass Reinforcement	65997-17-3	<35%

## 4 EMERGENCY FIRST AID

Eyes: Flush with water. Consult physician if symptoms persist.

Skin Contact: Wash with soap and water. For thermal burns from molten polymer, immediately flush with cold water. Do not attempt to remove cooled polymer from skin. Obtain medical attention.

Inhalation: Leave exposed area and seek fresh air. If irritation persists seek medical attention.

Ingestion: Not likely due to nature of product. If ingested, drink plenty of water. Do not induce vomiting. Consult a physician if symptoms persist.

## 5 FIRE AND EXPLOSION HAZARD

Extinguishing Media: Water spray, dry powder, and foam. Carbon dioxide (CO2)

Safety Precautions for Persons exposed to products of combustion should wear NIOSH approved self contained breathing apparatus and full PPE.

## 6 ACCIDENTAL RELEASE MEASURES

Spill or release: Clean up by vacuuming or sweeping to prevent falls. If molten, allow material to cool and place into an appropriate container for disposal.

### 7 HANDLING AND STORAGE CONDITIONS

Precautions to be taken in handling and storage: Store in a dry, sprinkler equipped warehouse. Product as shipped is not a combustible dust. Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate.

Waste Disposal: Dispose in accordance with applicable federal, state and local regulations.

## 8 EXPOSURE AND PROTECTION INFORMATION

Exposure Limits: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Respiratory Protection: A NIOSH approved respirator is recommended for protection against processing polymeric fumes, or from dust generated from grinding, sanding, or sawing operations.

Ventilation: Local exhaust is preferred.

Protection Gloves: : Canvas or cotton gloves are recommended.

Eye Protection: Safety glasses with side shields are recommended.

Other: No protective equipment is needed under normal use conditions.

## 9 PHYSICAL/CHEMICAL DATA

Form: Solid Appearance: Black Filament Udor: None Freezing Point: N/A Solubility in Water: Insoluble Specific Gravity: >1 % Volatile: N/A Boiling Range: N/A Vapor Pressure (MM HG): Negligible Melting Point: This product does not possess a specific melting point. It softens gradually over a wide temperature range.

Note: Those physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

## 10 STABILITY AND REACTIVITY

Polymerization conditions to avoid: None

Chemical Stability: Stable under normal conditions

Conditions to avoid: Incompatible materials, including strong oxidizing agents

Hazardous decomposition byproducts: Thermal decomposition can yield intense heat, dense smoke, phenols, hydrogen cyanide, carbon dioxide, and carbon monoxide.

### 11 TOXICOLOGICAL INFORMATION

No specific toxicological information is available.

## 12 ECOLOGICAL INFORMATION

No specific ecological information is available.

### 13 DISPOSAL

Waste Disposal: Waste or unused product may be discarded in accordance with state, federal, and local regulations.

#### 14 TRANSPORT INFORMATION

Land Transport (DOT): Non-Regulated Sea Transport (IMDG): Non-Regulated Air Transport (ICAD/IATA): Non-Regulated

#### 15 REGULATORY INFROMATION

TSCA: Complies Reach: Complies EINECS/ELINCS: N/A DSL/NDSL: Complies PICCS: N/A ENCS: Complies IECSC: Complies AICS: Complies KECL: Complies

## 16 MISCELLANEOUS INFORMATION

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#### END OF SDS