



3DXTECH[®]
Additive Manufacturing

SAFETY DATA SHEET

3DXSTAT[®] ESD-TPU (60D)

EFFECTIVE DATE: 05/26/2026

REVISION NUMBER: V1.0

1 PRODUCT AND SUPPLIER INFORMATION

Product Identification:

Product Name: 3DXSTAT[®] ESD-TPU (60D)

Chemical Name: Thermoplastic polyurethane

Recommended Use: Additive manufacturing

Supplier Information:

3DXTECH

904 36th Street SE, Suite B

Grand Rapids, MI 49508 (USA)

Phone (616) 214-7965

Email: INFO@3DXTECH.COM

2 HAZARDS IDENTIFICATION

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

Physical Hazards:

H317: May cause an allergic skin reaction

Irritation/Corrosion: Not likely to result in irritation in solid form. Thermal decomposition may result in release of toxic airborne contaminants which can be irritating to eyes, skin, and respiratory tract.

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 (%)	GHS Classification
Thermoplastic Polyurethane Resin	Proprietary	>80	Not Classified
Carbon Black	1333-86-4	<18	Not Classified
Benzamine, 4-(1-methyl- 1-phenylethyl) - N[4-(1-methyl- 1-phenylethyl)phenyl]-	10081-67-1	<2	H317, H413

NOTE: The above chemicals are bound within the applicable polymer structures and therefore the material as a whole is not GHS classified for health/environmental hazards. Exposure to these above chemicals directly is not expected.

4 EMERGENCY FIRST AID

Eyes: Flush with water. Consult a 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: Thermal decomposition may result in release of toxic airborne contaminants. Leave exposed area and seek fresh air. Obtain medical attention.

Ingestion: Not likely due to nature of product. If ingested, drink plenty of water. Do not induce vomiting; do not induce vomiting or give anything by mouth to an unconscious individual. Consult a physician if symptoms persist.

5 FIRE AND EXPLOSION HAZARD

Autoignition Temperature: >400°C

Extinguishing Media: Water spray, foam, dry extinguishing media, carbon dioxide (CO₂)

Firefighting Equipment: Persons exposed to products of combustion should wear NIOSH approved self-contained breathing apparatus and full protective equipment.

Firefighting Hazards: Carbon monoxide, carbon dioxide, and other products of incomplete combustion. Hazardous organic compounds.

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. Industrial waste incineration is the recommended method of disposal, in accordance with federal, state, and local regulations.

Environmental Precautions: Avoid release into the environment. Do not contaminate sewer or water sources.

7 HANDLING AND STORAGE CONDITIONS

Handling and Storage Precautions: Store in a dry, sprinkler-equipped warehouse. Store at below 60°C (140°F). Product as shipped is not a combustible dust. Mechanical handling can cause the formation of dust. To reduce the risk for dust explosion, do not permit dust to accumulate.

Handling Hazards: Fumes from decomposition byproducts may be toxic. Conduct operations which emit fumes or vapor in well-ventilated conditions. Do not inhale process vapors. Do not store or consume food in processing areas. Do not steam sterilize articles made with thermoplastic polyurethanes; Methylene dianiline can be generated as a result.

Storage Stability: Stable under recommended storage conditions.

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

8 EXPOSURE AND PROTECTION INFORMATION

Exposure Limits:

Chemical Name:	OSHA PEL	ACGIH TLV
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Carbon Black	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA – inhalable fraction
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NOTE: The hazardous chemicals are bound in a polymer structure. Therefore, the material is not GHS classified for health and environmental hazards as exposure is not expected. Only components with exposure limits are printed in this section.

Respiratory Protection: Under normal conditions, a respirator is not usually required. A NIOSH-approved respirator is recommended for protection against processing polymeric fumes, or from dust generated from mechanical processing.

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

Odor: None

pH: Not applicable

Freezing Point: N/A

Solubility in Water (20°C): Insoluble

Soluble in: Phenols Metacresol Benzyl alcohol (hot) Formic acid (concentrated), Sulpheric acid (concentrated), Methylene chloride (dichloromethane) [partly soluble]

Specific Gravity: >1 g/cc

% Volatile: N/A

Boiling Range: N/A

Vapor Pressure (MM HG): Negligible

Melting Point: No data available

Boiling Point: Not applicable

Flash Point: Not applicable

Flammability: No data available

Auto-Ignition Temperature: 370-450°C

Decomposition Temperature: 300-350°C

Viscosity: Not applicable

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

Chemical Stability: Stable under normal conditions

Conditions to Avoid: Avoid storing in moist/warm conditions due to hygroscopic nature of the material

Conditions to avoid: Stable under normal conditions

Hazardous Decomposition Byproducts: Thermal decomposition can yield intense heat, carbon oxides, Ammonia, Amino derivatives, Hydrogen cyanide, and hazardous organic compounds.

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

15 REGULATORY INFORMATION

TSCA: Components are listed or are exempted
EINECS/ELINCS: Components are listed or are exempted
ISHL: Components are listed or are exempted
DSL/NDL: Components are listed or are exempted
PICCS: Components are listed or are exempted
ENCS: Components are listed or are exempted
IECSC: Components are listed or are exempted
KECI: Components are listed or are exempted
AU AIICL: Components are listed or are exempted

California PROP 65:

WARNING! This product contains a chemical known to the state of California to cause cancer.

Chemical Name: Carbon black

CAS No: 1333-86-4

16 MISCELLANEOUS INFORMATION

Prepared by: Business Management

Issued: 05/26/2026

Supersedes: N/A

This information set forth herein has been gathered from standard reference materials and/or supplier test data and is, to the best knowledge and belief of 3DXTECH, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. 3DXTECH makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein combination with any other material or process, and assumes no responsibility therefore.

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