SAFETY DATA SHEET

3DXSTAT™ ESD-PLA

EFFECTIVE DATE: 07/20/2026 REVISION NUMBER: v2.1

1 PRODUCT AND SUPPLIER INFORMATION

Product Identification:

Product Name: 3DXSTAT™ ESD-PLA

Chemical Name: Polylactic Acid (PLA) modified with carbon nanotubes [CNTs]

Recommended Use: Additive Manufacturing

Supplier Information:

3DXTECH
904 36th Street, Suite B
Grand Rapids, MI 49508 (USA)
Phone (616) 214-7965
Email: INFO@3DXTECH.COM
Emergency Phone Number: (616) 214-7965

2 HAZARDS IDENTIFICATION

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 (%)
Polylactic Acid	9051-89-02	>90
Carbon Nanotubes	308068-56-6	<10

4 EMERGENCY FIRST AID

Eyes: Flush with water for at least 15 minutes. Remove contacts if present and easy to do so. 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: 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, foam, and Carbon dioxide (CO_2).

Specific Hazards: May form combustible dust concentrations in air. Finely divided dusts can form explosive mixtures in air. Large dust clouds from product have the potential to ignite explosively.

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

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear personal protective equipment as outlined in section 8. Ensure adequate ventilation. Avoid formation of suspended dust or powder; keep away from sources of ignition.

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.

Environmental Precautions: Prevent release into the environment, particularly into bodies of water or sewage systems.

7 HANDLING AND STORAGE CONDITIONS

Storage and Handling Precautions: Store in a dry, sprinkler-equipped warehouse. The product as shipped is not a combustible dust. Mechanical handling can cause the formation of dust. To reduce the risk of dust explosion, do not permit dust to accumulate. Remove all sources of ignition and keep away from static discharges.

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: Local ventilation and exhaust are recommended for general use. A NIOSH approved respirator is recommended for protection against processing polymeric fumes, or from dust generated from grinding, sanding, or sawing operations.

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Ventilation: Local exhaust is preferred.

Hand and Body Protection: Canvas or cotton gloves are recommended.

Eye Protection: Safety glasses with side shields are recommended.

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

9 PHYSICAL/CHEMICAL DATA

Form: Solid
Appearance: Black Filament
Odor: None
pH: N/A
Melting Point: (Glass Transition Temperature) 55°C
Freezing Point: N/A
Boiling Range: N/A
Flash Point: N/A
Evaporation Rate: N/A
Flammability (Solid): Combustible as dust; moderate flammability as a solid when exposed to flame (does not self-extinguish), but will not readily ignite
Flammability Limits: >300°C
Vapor Pressure: Negligible
Vapor Density: N/A
Relative Density: >1.0 g/cc
Solubility in Water: Insoluble
Partition Coefficient: N/A
Auto-Ignition Temperature: >375°C
Decomposition Temperature: >250°C
Viscosity: Proprietary

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 and Substances to Avoid: None

Chemical Stability: Stable under normal conditions

Conditions to Avoid: Incompatible materials, including strong oxidizing agents. Keep away from ignition sources

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 (ICAO/IATA): Non-Regulated

15 REGULATORY INFORMATION

TSCA: Complies
EINECS/ELINCS: N/A
DSL/NDSL: Complies
PICCS: N/A
ENCS: Complies
IECSC: Complies
AICS: Complies
KECL: Complies
REACH Annex XVII: Complies

16 MISCELLANEOUS INFORMATION

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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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