NexaForge

Safety Data Sheet (SDS / MSDS)

General 16-section safety data sheet for NexaForge 3D printer filament product families.

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Brand	NexaForge	Status	Customer Issue
Product Scope	3D Printer Filament Product Families	Contact	wangdancqu@gmail.com

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Document Use: This document is issued for customer communication, distributor review and product evaluation. For buyer-specific regulatory filing, customs submission or certification audit, product-specific test reports and country-specific documentation may be requested.

This SDS/MSDS follows the internationally recognized 16-section safety data sheet structure for customer safety communication. It is intended for solid polymer filament products under normal storage, handling and FDM/FFF printing use.

1. Identification

Subsection	Information
Product identifier	NexaForge 3D Printer Filament
Product families covered	PLA, PLA+, PETG, Silk PLA, Matte PLA, Matte PETG, TPU, PEBA, ABS, ASA, HIPS, Nylon/PA, PA-CF, PC, PC+ABS, POM, PVA, PVB and specialty polymer filaments
Recommended use	FDM / FFF 3D printing filament for professional, educational, industrial, maker and distributor use
Uses advised against	Do not use for food-contact, medical implant, child-care, life-support, high-temperature safety-critical or flame-exposure applications unless specifically validated for that use
Supplier / brand	NexaForge
Contact	Email: wangdancqu@gmail.com | WhatsApp: +86 181 2463 4945

2. Hazard Identification

Subsection	Information
GHS classification	Not classified as hazardous under normal handling as a solid polymer filament based on available product information
Signal word	Not applicable
Hazard pictograms	Not applicable for solid filament under normal use
Main hazards	Molten material can cause thermal burns. Thermal decomposition or overheating may generate irritating fumes. Dust or fibers from cutting, sanding or grinding may cause mechanical irritation.
Precautionary statements	Use in a well-ventilated area during printing. Avoid inhalation of fumes, dust or decomposition products. Avoid contact with molten material. Keep away from open flame and strong oxidizers.

3. Composition / Information on Ingredients

Subsection	Information
Chemical nature	Solid thermoplastic polymer filament with pigments, stabilizers and/or functional additives depending on product series
Polymer resin	Typically 70-100% depending on product family
Pigments / additives	Typically <10% depending on color, effect and formulation
Fillers / reinforcement	Carbon fiber, glass fiber, wood powder, metal effect, glow or other functional additives may be present in specialty products; level depends on product series
CAS information	Mixture / article; exact composition may be proprietary and varies by product family. Product-specific declaration can be provided upon request where applicable.

4. First-Aid Measures

Subsection	Information
Inhalation	If fumes or dust are inhaled, move person to fresh air. Seek medical attention if irritation or symptoms persist.
Skin contact	For normal solid filament, wash with soap and water if irritation occurs. For molten material, cool affected area with water; do not forcibly remove solidified polymer from skin. Seek medical attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Seek medical attention if irritation persists.
Ingestion	Not expected under normal industrial use. Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice if discomfort occurs.
Most important symptoms	Thermal burns from molten polymer; temporary irritation from fumes, dust or particles.

5. Fire-Fighting Measures

Subsection	Information
Suitable extinguishing media	Water spray, foam, carbon dioxide (CO2), dry chemical powder
Unsuitable media	High-pressure water jet may scatter burning material
Specific hazards	Combustion or thermal decomposition may release smoke, carbon monoxide, carbon dioxide and irritating organic vapors. Nitrogen-containing polymers may release nitrogen oxides; halogenated or specialty additives may generate additional decomposition products.
Protective equipment	Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Subsection	Information
Personal precautions	Avoid slips from spilled pellets, strands or filament pieces. Avoid dust formation during cleanup.
Environmental precautions	Prevent large quantities from entering drains, waterways or soil.
Cleanup methods	Collect mechanically by sweeping or vacuuming. Place in suitable container for reuse, recycling or disposal according to local regulations.

7. Handling and Storage

Subsection	Information
Handling	Handle as solid polymer material. Avoid contact with hot nozzle, hot bed or molten polymer. Use ventilation during printing.
Storage	Store in original sealed packaging in a cool, dry, well-ventilated area away from sunlight, moisture, heat, open flame and strong oxidizers.
Moisture-sensitive materials	Nylon/PA, PA-CF, PVA and some engineering filaments should be kept dry and dried before use according to material requirements.

8. Exposure Controls / Personal Protection

Subsection	Information
Engineering controls	Use local exhaust ventilation or general ventilation during printing, especially for ABS, ASA, PC, Nylon/PA, filled materials or prolonged printing.
Respiratory protection	Not normally required for solid filament handling. Use suitable respirator if fumes, dust or airborne particles are generated and ventilation is insufficient.
Eye protection	Safety glasses recommended when cutting, sanding, grinding or handling brittle/filled material.
Skin protection	Gloves recommended when handling hot parts, rough parts, filled materials or molten polymer.
Hygiene measures	Wash hands after handling. Do not eat, drink or smoke during printing or processing.

9. Physical and Chemical Properties

Subsection	Information
Appearance	Solid filament wound on spool; color varies by product
Odor	None to slight polymer odor
Physical state	Solid thermoplastic filament
Diameter	Typically 1.75 mm
Softening / melting range	Varies by material family; see TDS for recommended printing temperature
Flash point	Not applicable to solid filament in normal use
Solubility	Generally insoluble in water except PVA and selected specialty materials
Density	Varies by material family and additives; typically approx. 1.0-1.4 g/cm3 for common polymer filaments, higher for filled/metal-effect products
VOC / fumes	Low under recommended printing conditions; overheating can increase fumes and decomposition products

10. Stability and Reactivity

Subsection	Information
Reactivity	Stable under normal storage and handling conditions
Chemical stability	Stable at ambient temperature when stored dry and away from heat sources
Possibility of hazardous reactions	No hazardous polymerization expected
Conditions to avoid	Excessive heat, open flame, moisture for hygroscopic materials, overheating in nozzle or hot chamber
Incompatible materials	Strong oxidizing agents and aggressive chemicals depending on polymer type
Hazardous decomposition products	Carbon monoxide, carbon dioxide, smoke, organic vapors and irritating fumes; composition depends on material family and additives

11. Toxicological Information

Subsection	Information
Acute toxicity	Not expected to be acutely toxic as a solid polymer filament under normal handling
Skin / eye irritation	Dust, particles, fibers or molten material may cause irritation or burns
Respiratory irritation	Printing fumes, decomposition vapors or dust may irritate the respiratory tract, especially if ventilation is inadequate
Sensitization	No data indicating sensitization for standard solid filament; filled or specialty products should be evaluated by product-specific composition
Chronic effects	No known chronic effects under recommended use; avoid repeated inhalation of fumes or dust

12. Ecological Information

Subsection	Information
Ecotoxicity	Not expected to present acute aquatic toxicity as solid polymer material; product-specific additives may vary
Persistence and degradability	Most thermoplastic filaments are not readily biodegradable; PLA may be industrially compostable only under specific controlled conditions and not in normal home or natural environments
Bioaccumulation	No significant bioaccumulation expected for solid polymer article
Mobility in soil	Low mobility as solid filament or printed part
Other adverse effects	Prevent release of filament pieces, scraps and microplastic particles into the environment

13. Disposal Considerations

Subsection	Information
Waste treatment methods	Reuse, recycle or dispose of according to local, regional and national regulations. Do not discharge into drains or waterways.
Packaging disposal	Recycle packaging materials where possible. Dispose of contaminated packaging according to local regulations.
Special considerations	Filled, colored or specialty materials may require separate waste handling according to customer process and local law.

14. Transport Information

Subsection	Information
UN number	Not regulated as dangerous goods based on available information
UN proper shipping name	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable
Environmental hazards	Not classified as marine pollutant based on available information

Subsection	Information
Special precautions	Protect from heat, moisture, mechanical damage and direct sunlight during transport
Transport regulations	Not regulated under common ADR/RID, IMDG or IATA dangerous goods rules for standard solid polymer filament; confirm shipment-specific requirements with carrier and destination regulations

15. Regulatory Information

Subsection	Information
Safety / health regulations	This SDS is prepared for safety communication of solid polymer filament product families. Product-specific regulatory status depends on formulation, additive package and destination market.
GHS / hazard communication	Not classified as hazardous under normal solid handling based on available product information
RoHS / REACH	Documentation may be provided upon request for applicable product series and confirmed batches
Other regulations	Customer must verify end-use and destination-market requirements before resale, certification filing or customs submission

16. Other Information

Subsection	Information
Issue date	2026-06-15
Revision	1.0
Prepared by	NexaForge Product Compliance
Format reference	16-section SDS/MSDS format for safety communication
Disclaimer	The information is based on available product information and typical use of 3D printing filament. It is provided in good faith for customer safety evaluation. Users must determine suitability, printing conditions, ventilation, regulatory compliance and end-use safety for their specific application.