



Safety Data Sheet (SDS / MSDS)

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

Document No.	NXF-SDS-GEN-001	Revision	2.0
Issue Date	2026-07-26	Prepared by	NexaForge Product Compliance
Brand	NexaForge	Status	Customer Issue
Product Scope	Current NexaForge 1.75 mm FDM/FFF filament product families	Primary Contact	sales@nexaforge3d.com

Company Contact

Email: sales@nexaforge3d.com

WhatsApp Business: +86 181 2463 4945

Website: www.nexaforge3d.com

Made-in-China Store: <https://nexaforge.en.made-in-china.com/>

Supplier location: Shenzhen, Guangdong, China

Emergency advice: Contact local emergency services or a poison information center. The WhatsApp Business number is not a 24-hour medical emergency line.

Document Use: This customer-issue general SDS supports customer communication, distributor review and product evaluation. It is not a substitute for a product-specific regulatory SDS, COA, composition declaration or destination-country filing. Exact grade, supplying legal entity, full address, formulation and batch documentation must be confirmed before regulatory submission.

This document follows the internationally recognized 16-section SDS structure. It addresses solid polymer filament under normal storage, handling and FDM/FFF printing use. Where exact formulation data are not available, the document states the limitation rather than implying a certified product-specific result.

1. Identification

Subsection	Information
Product identifier	NexaForge 3D Printer Filament
Product families covered	PLA, PLA+, PLA HS, Matte PLA, Silk PLA (single / dual / tri-color / rainbow), PLA Luminous, PLA Wood, PLA Marble, PLA Burning Titanium, PLA Transparent, PLA Metal, PLA-GF, PETG, PETG HS, Matte PETG, PETG Transparent, PETG-GF, TPU 95A, PEBA, ABS, ASA, PC, PA Nylon, PA6-CF and confirmed specialty-effect grades.
Recommended use	FDM / FFF 3D printing filament for professional, educational, industrial, maker, print-farm, retailer and distributor use.
Uses advised against	Do not use for food-contact, medical implant, child-care, life-support, pressure-retaining, flame-exposure or other safety-critical applications unless the exact grade has been separately validated and approved.
Supplier / brand	NexaForge Shenzhen, Guangdong, China
Contact	Email: sales@nexaforge3d.com WhatsApp Business: +86 181 2463 4945 Website: www.nexaforge3d.com
Emergency contact	Use local emergency services or poison information center. NexaForge business contact is not a 24-hour emergency response service.

2. Hazard Identification

Subsection	Information
GHS classification	Based on available information, standard grades covered by this general document are not classified as hazardous during normal handling as solid polymer filament. Specialty formulations and destination-market rules require product-specific review.
Signal word	Not applicable for standard solid filament under normal use.
Hazard pictograms	Not applicable for standard solid filament under normal use.
Main hazards	Molten polymer can cause severe thermal burns. Overheating, fire or thermal decomposition can generate smoke and irritating vapors. Cutting, sanding, grinding or machining may generate dust, fibers or particles that can irritate eyes, skin and the respiratory tract. Carbon-fiber, glass-fiber, wood-filled, luminous and other specialty grades require additional dust and abrasion control.
Precautionary statements	Print in a well-ventilated area. Avoid inhalation of fumes, dust and decomposition products. Avoid skin contact with molten material. Keep away from open flame, excessive heat and strong oxidizers. Use eye protection and suitable gloves for cutting, sanding, grinding or hot-part handling.

3. Composition / Information on Ingredients

Subsection	Information
Chemical nature	Solid thermoplastic polymer filament containing pigments, stabilizers and/or functional additives depending on the confirmed product series.
Polymer matrix	Major component. Type and concentration vary by product family and exact grade.
Pigments / additives	Colorants, processing aids, stabilizers and effect additives may be present. Exact levels vary by color and formulation.
Fillers / reinforcement	Carbon fiber, glass fiber, wood powder, mineral, metallic-effect, luminous or other functional fillers may be present in specialty grades. Content varies by confirmed grade.
Hazardous ingredient disclosure	A single universal ingredient list cannot represent all covered families. Product-specific composition and disclosure thresholds must be assessed for the exact grade and destination jurisdiction.
CAS information	Mixture / manufactured article. Exact composition may be proprietary. Product-specific declaration can be provided when applicable and available.

4. First-Aid Measures

Subsection	Information
Inhalation	If fumes or dust are inhaled, move the person to fresh air and keep at rest. Seek medical attention if irritation, coughing, dizziness or other symptoms persist.
Skin contact	For solid filament, wash with soap and water if irritation occurs. For molten polymer, immediately cool with clean water. Do not forcibly remove solidified polymer from skin. Obtain medical attention.
Eye contact	Rinse cautiously with clean water for several minutes. Remove contact lenses if easy to do. Continue rinsing and 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, fibers or particles.
Advice to physician	Treat symptomatically. Solidified polymer adhered to skin should be managed as a thermal-burn injury.

5. Fire-Fighting Measures

Subsection	Information
Suitable extinguishing media	Water spray, foam, carbon dioxide (CO2) or dry chemical powder, selected according to the surrounding fire.
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. Specialty additives may generate additional decomposition products.
Protective equipment	Firefighters should wear self-contained breathing apparatus and full protective equipment.
Additional guidance	Cool exposed packages with water spray where safe. Avoid breathing combustion products.

6. Accidental Release Measures

Subsection	Information
Personal precautions	Avoid slips from loose filament, strands, pieces or pellets. Avoid generating dust during cleanup. Use suitable PPE for filled or machined materials.
Environmental precautions	Prevent large quantities, scraps and microplastic particles from entering drains, waterways or soil.
Cleanup methods	Collect mechanically by sweeping or industrial vacuuming. Place in a suitable container for reuse, recycling or disposal in accordance with local requirements.

7. Handling and Storage

Subsection	Information
Handling	Handle as solid polymer material. Avoid contact with hot nozzle, hot bed, heated chamber and molten polymer. Use adequate ventilation during printing and downstream machining.
Storage	Store in original sealed packaging with desiccant in a cool, dry, well-ventilated area away from sunlight, moisture, heat, open flame and strong oxidizers.
Moisture-sensitive materials	PETG, TPU, PEBA, PC, PA Nylon, PA6-CF, PETG-GF and other hygroscopic grades should be kept dry and re-dried according to the corresponding TDS before use.
Specialty materials	Filled materials may be abrasive and may create fine dust during machining. Prevent dust accumulation and use suitable extraction.

8. Exposure Controls / Personal Protection

Subsection	Information
Occupational exposure limits	No universal exposure limit applies to all covered product families. Observe applicable limits for dust, fibers, decomposition products and formulation-specific ingredients.
Engineering controls	Use local exhaust or effective general ventilation during printing, particularly for ABS, ASA, PC, PA Nylon, PA6-CF, PETG-GF, filled materials, high-temperature printing or prolonged operation.
Respiratory protection	Not normally required for handling intact solid filament. Where fumes, dust, fibers or airborne particles are generated and ventilation is insufficient, use a suitable respirator selected according to local regulations and risk assessment.
Eye protection	Safety glasses are recommended when cutting, sanding, grinding, drilling or handling brittle and filled materials.
Skin protection	Heat-resistant gloves are recommended for hot parts and molten material. Work gloves may be used for rough or fiber-filled parts.
Hygiene measures	Wash hands after handling. Do not eat, drink or smoke in the processing area. Clean dust using methods that minimize airborne dispersion.

9. Physical and Chemical Properties

Subsection	Information
Appearance	Solid filament wound on a spool; color and surface finish vary by product.
Odor	None to slight polymer odor in solid form; printing odor varies by material and processing temperature.
Physical state	Solid thermoplastic filament.
Diameter	Typically 1.75 mm. See the product-specific TDS or order confirmation.
Softening / melting range	Varies by material family and exact grade. See the applicable TDS for processing temperatures.
Flash point	Not applicable to solid filament under normal use; combustible when exposed to sufficient heat or flame.
Solubility	Generally insoluble in water for the currently listed product families.
Density	Varies by polymer, pigment and filler; commonly approximately 1.0-1.4 g/cm3, with higher values possible for filled or metallic-effect grades.
VOC / fumes	Low during recommended processing relative to overheated material. Fume generation increases with excessive temperature, residence time or decomposition.

10. Stability and Reactivity

Subsection	Information
Reactivity	Stable under recommended storage and normal handling conditions.
Chemical stability	Stable at ambient temperature when kept dry and away from heat sources.
Possibility of hazardous reactions	No hazardous polymerization expected under normal conditions.
Conditions to avoid	Excessive heat, open flame, prolonged overheating in nozzle or chamber, moisture for hygroscopic materials and uncontrolled dust accumulation.
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. Exact decomposition products depend on the polymer and additive package.

11. Toxicological Information

Subsection	Information
Acute toxicity	Not expected to be acutely toxic as intact solid filament under normal handling, based on available general product information. Exact specialty formulation requires grade-specific review.
Skin / eye irritation	Dust, fibers, particles or molten polymer may cause irritation or thermal burns.
Respiratory irritation	Printing fumes, decomposition vapors, dust or fibers may irritate the respiratory tract, especially if ventilation is inadequate.
Sensitization	No universal conclusion can be made for all specialty formulations. Evaluate the confirmed grade and additives where sensitization is relevant.
Carcinogenicity / mutagenicity / reproductive toxicity	No universal classification is assigned by this general document. Product-specific composition must be assessed where regulatory disclosure is required.
Chronic effects	Avoid repeated inhalation of fumes, dust and fibers. Long-term effects depend on exposure level and exact formulation.

12. Ecological Information

Subsection	Information
Ecotoxicity	Intact solid filament is not expected to present acute aquatic toxicity based on available general information; additives and specialty grades may vary.
Persistence and degradability	Most thermoplastic filaments are not readily biodegradable. PLA may be industrially compostable only under specific controlled conditions and is not expected to rapidly biodegrade in normal home or natural environments.
Bioaccumulation	No significant bioaccumulation is expected for intact solid polymer articles; product-specific additive data may be required.
Mobility in soil	Low mobility as intact solid filament or printed part.
Other adverse effects	Prevent release of filament pieces, scraps, dust and microplastic particles into the environment.

13. Disposal Considerations

Subsection	Information
Waste treatment methods	Reuse or recycle where technically and legally feasible. Otherwise dispose of in accordance with local, regional and national requirements. Do not discharge to drains or waterways.
Packaging disposal	Recycle clean packaging where possible. Dispose of contaminated packaging according to local requirements.
Special considerations	Filled, fiber-reinforced, colored and specialty materials may require separate collection or disposal based on the customer process and local law.

14. Transport Information

Subsection	Information
UN number	Generally not regulated as dangerous goods in intact solid filament form, based on available information. Confirm the exact product and shipment.
UN proper shipping name	Not applicable when not regulated as dangerous goods.
Transport hazard class	Not applicable when not regulated as dangerous goods.
Packing group	Not applicable when not regulated as dangerous goods.
Environmental hazards	Not classified as a marine pollutant based on available general information.
Special precautions	Protect from heat, moisture, direct sunlight, mechanical damage and package rupture during transport.
Transport regulations	Standard solid polymer filament is generally not regulated under common ADR/RID, IMDG or IATA dangerous-goods provisions. Carrier, route and destination requirements must be confirmed for the exact shipment.

15. Regulatory Information

Subsection	Information
Safety / health regulations	This general SDS is prepared for safety communication of solid polymer filament product families. Product-specific regulatory status depends on the exact formulation, supplying legal entity, additive package and destination market.
GHS / hazard communication	No universal hazardous classification is assigned to the standard solid filament families under normal handling based on available information. Specialty grades require product-specific assessment.
RoHS / REACH	Supporting documents may be provided upon request for applicable product series and confirmed batches. Availability does not imply universal compliance for every grade, color or market.
Food / medical / regulated end use	No food-contact, medical, implant, life-support or other regulated end-use approval is granted by this general SDS.
Other regulations	The customer must verify destination-market, workplace, resale, customs, labeling and certification requirements before placing the product on the market.

16. Other Information

Subsection	Information
Issue date	2026-07-26
Revision	2.0
Prepared by	NexaForge Product Compliance
Format reference	16-section SDS/MSDS safety communication format.
Revision summary	Updated contact details to sales@nexaforge3d.com and WhatsApp Business; added official website and Made-in-China store; aligned product scope with the current NexaForge catalog; strengthened product-specific limitations, ventilation, dust/fiber, transport and regulatory wording.
Disclaimer	The information is based on available general product information and typical use of 3D printing filament. It is provided in good faith for customer safety evaluation. Users must determine suitability, processing conditions, ventilation, PPE, regulatory compliance and end-use safety for the exact grade and application. This general SDS does not replace a product-specific regulatory SDS or certified test report.

Revision History

Subsection	Information
Rev. 1.0 - 2026-06-15	Initial customer-issue general SDS/MSDS.
Rev. 2.0 - 2026-07-26	Updated customer contact and sales channels; aligned current product families; improved hazard communication and qualification language; retained customer-issue status.

Customer contact: sales@nexaforge3d.com | WhatsApp Business +86 181 2463 4945 | www.nexaforge3d.com | <https://nexaforge.en.made-in-china.com/>