

Material Safety Data Sheet (MSDS)

SECTION 1: Identification

- **Product Name:** Fabbxible Nylon-Like UV Photosensitive Resin
 - **Recommended Use:** 3D printing material for LCD/DLP/SLA machines
 - **Restrictions on Use:** Not for food-contact or medical implantation
 - **Manufacturer Contact:**
Fabbxible Technology
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SECTION 2: Hazard Identification

GHS Classification:

- Skin Irritation – Category 2
- Eye Irritation – Category 2A
- Skin Sensitization – Category 1
- Specific Target Organ Toxicity (STOT-SE) – Category 3
- Aquatic Chronic Toxicity – Category 3

Signal Word: *Warning*

Hazard Statements:

- H315: Causes skin irritation
- H317: May cause allergic skin reaction
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation
- H412: Harmful to aquatic life with long-lasting effects

Precautionary Statements:

- P261: Avoid breathing vapors
- P280: Wear protective gloves, clothing, eye, and face protection
- P302+P352: IF ON SKIN: Wash with plenty of soap and water
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes
- P501: Dispose of contents/container in accordance with local regulations

SECTION 3: Composition/Information on Ingredients

Component	CAS Number	Weight %
Urethane Acrylate Oligomer	Proprietary	30–50%
Acrylate Monomers (Reactive Diluents)	Proprietary	30–50%
Nylon-like Polymer Additives	Proprietary	5–10%
Photoinitiators	Proprietary	1–5%
Stabilizers/Inhibitors	Proprietary	<1%

Exact concentrations are proprietary.

SECTION 4: First Aid Measures

- **Inhalation:** Move to fresh air. Get medical attention if symptoms occur.
 - **Skin Contact:** Wash with plenty of water and soap. Remove contaminated clothing. Seek medical attention if irritation persists.
 - **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses. Get medical advice.
 - **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical advice.
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SECTION 5: Fire-Fighting Measures

- **Extinguishing Media:** Foam, dry chemical, CO₂
 - **Unsuitable Media:** Water jet
 - **Hazardous Combustion Products:** CO, CO₂, acrid fumes, aldehydes
 - **Protective Equipment:** Firefighters should wear full protective gear and self-contained breathing apparatus (SCBA)
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SECTION 6: Accidental Release Measures

- **Personal Precautions:** Avoid skin/eye contact and vapor inhalation. Wear appropriate PPE.
- **Environmental Precautions:** Prevent entry into drains and water sources.

- **Methods for Cleanup:** Absorb with inert material (e.g., sand). Collect in a sealable container. Clean spill area with detergent and water.
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SECTION 7: Handling and Storage

- **Handling:** Avoid direct contact. Do not breathe vapors. Use only with adequate ventilation.
 - **Storage:** Store in a tightly closed container in a cool, dry, dark place (15–30°C). Avoid UV exposure.
 - **Incompatible Materials:** Strong oxidizing agents, acids, and bases
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SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Use local exhaust or mechanical ventilation
 - **Personal Protection:**
 - **Eyes:** Safety goggles
 - **Skin:** Chemical-resistant gloves (e.g., nitrile), long-sleeved clothing
 - **Respiratory:** Use NIOSH-approved respirator if ventilation is inadequate
 - **Hygiene:** Wash hands before eating or drinking. Do not smoke during handling.
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SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Translucent or opaque liquid (varies by color)
Odor	Mild acrylate odor
pH	Not applicable
Melting Point	Not applicable
Boiling Point	>100°C
Flash Point	>100°C (estimated)
Viscosity	300–500 cps @ 25°C
Density	1.1–1.3 g/cm ³
Solubility	Insoluble in water
VOC Content	<5%
Shelf Life	12 months (unopened, cool storage)

SECTION 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions
 - **Hazardous Reactions:** May polymerize upon UV exposure or heat
 - **Conditions to Avoid:** Heat, light, moisture, UV radiation
 - **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, acrylic compounds
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SECTION 11: Toxicological Information

- **Likely Exposure Routes:** Skin contact, eye contact, inhalation
 - **Acute Effects:**
 - Skin: May cause irritation or sensitization
 - Eyes: Causes irritation
 - Inhalation: May irritate respiratory tract
 - **Chronic Effects:** Repeated or prolonged contact may cause dermatitis or allergic reactions
 - **Carcinogenicity:** Not listed by IARC, NTP, OSHA
 - **Mutagenicity / Reproductive Toxicity:** Not known
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SECTION 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic organisms; may cause long-term adverse effects
 - **Persistence/Degradability:** Not readily biodegradable
 - **Bioaccumulative Potential:** No data available
 - **Mobility in Soil:** Expected low mobility
 - **Other Information:** Avoid environmental release
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SECTION 13: Disposal Considerations

- **Product Disposal:** Do not pour into drains. Dispose of via licensed hazardous waste contractor.
 - **Container Disposal:** Empty containers may contain residues. Dispose of according to local regulations.
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SECTION 14: Transport Information

Mode	UN Number	Proper Shipping Name	Hazard Class	Packing Group	Remarks
ADR/RID	Not Regulated	Not Dangerous Goods	—	—	Non-hazardous
IMDG	Not Regulated	Not Dangerous Goods	—	—	Marine pollutant: No
IATA	Not Regulated	Not Dangerous Goods	—	—	—

SECTION 15: Regulatory Information

- **GHS Classification:** Complies
 - **TSCA Inventory:** Components listed or exempt
 - **REACH Status:** Not fully evaluated
 - **RoHS Compliance:** Expected compliant
 - **Other:** Complies with local chemical inventory requirements where sold
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SECTION 16: Other Information

- **Prepared By:** Fabbxible Technology
- **Date Prepared:** 12th Jun 2025
- **Version:** 1.0
- **Disclaimer:** This MSDS is based on the most current information available at the time of preparation. No warranty is expressed or implied. User is responsible for determining suitability of this product for specific applications and compliance with applicable laws.