

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0 Date 7.10.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation Standard Photopolymer Resin Series

1.2 Relevant identified uses of the substance or mixture and uses advised against relevant identified uses

Sector of uses

Light curing resin for Flashforge LCD 3D Printer

1.3 Details of the supplier of the safety data sheet

Importer/Only Representative

Zhejiang Flashforge 3D Technology Co., Ltd

No.518, Xianyuan Road, Jinhua

Zhejiang, China

E-mail: aftersales@flashforge.com

1.4 Emergency telephone number

+86 0579-82238626 (only available during 8:00 A.M.-17:00 P.M. Beijing Time)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Skin sensitisation (Category 1), H317

Aquatic chronic (Category 3), H412

2.2 Label elements

Hazard pictograms



GHS 07 GHS 09

Signal word

Warning

Harzard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Disposal

P501 Dispose of contents/container to industrial incineration plant.

SECTION 3: Composition/Information on ingredients

Hazardous Ingradients	CAS No.	% w/w	Classification
Acrylated oligomer	—	5 - 15 %	Skin Irrit. 2, H315 / Eye Irrit. 2, H319
Acrylated oligomer	—	10 - 30 %	Skin Irrit. 2, H315 / Eye Irrit. 2, H319
Acrylated oligomer		10 - 30 %	Skin Irrit. 2, H315 / Eye Irrit. 2, H319
Acrylated monomer	—	5 - 20 %	Skin Irrit. 2, H315 / Eye Irrit. 2, H319
Acrylated monomer		10 - 20 %	Skin Irrit. 2, H315 / Eye Irrit. 2, H319
Acrylated monomer	—	10 - 30 %	Skin Irrit. 2, H315 / Eye Irrit. 2, H319

Additives	—	1 - 5 %	Skin Irrit. 2, H315 / Eye Irrit. 2, H319
Photoinitiator	947-19-3	1 - 2 %	Skin Sens. 1, H317 / Aquatic Chronic 4, H413

SECTION 4: First aid measures

- Inhalation: Remove patient from exposure and to fresh air. If breathing is irregular or stopped, administer artificial respiration.
- Skin Contact: Wash immediately with: water and soap.
- Eye Contact: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes, and consult an ophthalmologist.
- Ingestion: If swallowed, immediately drink plenty of water. Induce vomiting when the affected person is not unconscious.

Further Medical Treatment

Symptomatic treatment and supportive therapy as indicated.

SECTION 5: Firefighting measures

The product itself is not combustible. In case of fire and/or explosion do not breathe fumes.

Suitable extinguishing media: Foam, dry extinguishing powder and CO₂.

Special hazards arising from the substance or mixture

No data available.

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

Eliminate sources of ignition. Ensure suitable personal protective equipment (including respiratory protection) during removal or spillage.

Do not empty into drains/surface waters/groundwater.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothes. Avoid inhalation of vapour or mist. Keep away from sources of ignition, food and drinks.

7.2 Conditions for safe storage, including any incompatibilities

Materials to avoid

Oxidising agent

Strong alkali

Reducing agent

Alcohols

Further information on storage conditions

Store in a cool, well-ventilated place.

Recommended storage temperature 5 - 35 °C.

Protect against: Light and heat.

7.3 Specific end uses

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Respirators: Wear suitable respiratory equipment if exposed to level above the occupational exposure limit is likely. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use

proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9: Physical and chemical properties

Appearance	liquid
Color	this series includes grey, white, transparent, red, green, black
Odour	Acrylate
pH	Not determined.
Melting point	Not determined.
Initial boiling point	>143 °C
Flash point	Not determined.
Water solubility	Not soluble.
Density	1.03~1.10 g/mL (25 °C)
Viscosity	250~350 cps (25°C, 101.32 kPa)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

The product is stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

UV-light, sunlight, elevated temperature.

10.5 Incompatible materials

Strong oxidizing agents, reducing agents, peroxides and radical initiator.

10.6 Hazardous decomposition products

Oxides of carbon when burned.

SECTION 11: : Toxicological information**Acute toxicity**

LD50 acute oral rat: >950 mg/kg

LD50 acute dermal rat: >950 mg/kg

Eye irritation

Slightly irritant (rabbit).

Skin sensitization

May cause sensitization by inhalation and skin contact.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity**

LC50 acute zebra-fish toxicity: >23 mg/L (96 h)

EC50 acute big water flea toxicity: >320 mg/L (48 h)

EC50 acute little duckweed toxicity: >=200 mg/L (72 h)

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Not readily biodegradable (according to OECD criteria)

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

NO hazardous material as defined by the prescriptions. NO specific regulation for transport necessary.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA Inventory list: All individual components of the product are listed on TSCA

OSHA Hazards: Skin sensitizer/irritant

SARA 302: No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazard Categories: Acute Health Hazard and Reactive Hazard

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 Components: This product does not contain chemicals at levels greater or equal to 0.1 wt% which are known to the state of California to cause cancer.

Pennsylvania Right to Know Components: No components are subject to Pennsylvania Right to Know Act.

New Jersey Right to Know Components: No components are subject to the New Jersey Right to Know Act.

15.2 Chemical safety assessment

Irritant

SECTION 16: Other information

16.1 Full text of H-Statement referred to under Section 2.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

16.2 Further information

The above information describes exclusively the safety requirements of the product and shall be used only as a guide. The information in this document is based on our present-day knowledge and is applicable to the product with regard to appropriate safety precautions. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.