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NO.262540100580

SAFETY DATASHEET

Product Name: 3D Print photosensitive resin

Effective Date: 2026-01-14

Compiler: Guo Lu

Checker: Lou Wangqing

Approver: Dongxuesheng

Shanghai Institute of Chemical Industry Testing Co., Ltd.



Sunlu (Guangdong) Technology Co., Ltd.

SAFETY DATA SHEET

3D Print photosensitive resin

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: 3D Print photosensitive resin
Company: Sunlu (Guangdong) Technology Co., Ltd.
Address: No. 162 Tanlong North Road, Tanzhou Town, Zhongshan City, China.
E-mail: pc61@sunlu.com
Fax: /
Emergency Phone: 86-13716053087
Recommend use of the chemical and restrictions on use: 3D printing use. Inedible.
SDS Number: 262540100580
Effective Date: 2026-01-14

SECTION2 HAZARDS IDENTIFICATION

GHS Classification:

Physical Hazards:

Not Classified

Health Hazards:

Acute toxicity - Oral Category 5

Serious eye damage/eye irritation Category 1

Skin sensitization Category 1

Carcinogenicity Category 2

Specific target organ toxicity - Repeated exposure Category 2

Environmental Hazards:

Hazardous to the aquatic environment-Acute hazard Category 3

This product contains 50% of ingredients which lack data or information for classification, and may have unknown potential hazards to human health and the environment.

The hazards not mentioned are not applicable or no data available.

Label Elements:

Pictogram:



Signal Word:

Danger

Hazard Statements:

- H303 May be harmful if swallowed.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure .
- H402 Harmful to aquatic life.

Prevention Precautionary Statements:

- P264+P265 Wash hands thoroughly after handling. Do not touch eyes.
- P280 Wear protective gloves/ protective clothing /eye protection /face protection/hearing protection.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P203 Obtain, read and follow all safety instructions before use.
- P273 Avoid release to the environment.

Response Precautionary Statements:

- P301+P317 IF SWALLOWED: Get medical help.
- P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P302+P352 If ON SKIN: Wash with plenty of water.
- P333+P317 If skin irritation or rash occurs: Get medical help.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P318 IF exposed or concerned, get medical advice.
- P319 Get medical help if you feel unwell.

Storage Precautionary Statements:

- P405 Store locked up.

Disposal Precautionary Statements:

- P501 Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

Other Hazards:

- No data available.

SECTION3 INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Product name: 3D Print photosensitive resin

Ingredient	Concentration(%)	CAS NO.	EC NO.
Urethane acrylate	50	68987-79-1	848-035-8
4-acryloylmorpholine	25	5117-12-4	418-140-1
Ethoxylated Trimethylolpropane Triacrylate	24.4	28961-43-5	500-066-5
Color paste (white)	0.5	13463-67-7	236-675-5
Color paste (black)	0.1	1333-86-4	215-609-9

SECTION4 FIRST-AID MEASURES

Skin Exposure:

In case of skin contact, flush with copious amounts of water. If skin irritation or rash occurs, Call a physician.

Eye Exposure:

In case of contacting with eyes, lift the eyelids and flush with copious amounts of water for at least 15 minutes immediately. Call a physician immediately.

Inhalation Exposure:

If inhaled, remove to fresh air immediately. If the person feels unwell, Call a physician.

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Most Important Symptoms/Effects, Acute and Delayed:

No data available.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available.

SECTION5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Dry chemical, Carbon dioxide or Suitable foam.

Specific Hazards Arising from the Chemical:

Take care as it may decompose upon combustion or in high temperatures to generate Carbon oxides, nitrogen oxides, titanium oxides.

Special Protective Action for Fire-fighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

SECTION6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Remove all sources of ignition. Avoid inhalation. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Avoid entering drains. Avoid release to the environment.

Methods and Materials for Containment and Cleaning up:

Mix with inert material (e.g. dry sand, vermiculite) and transfer to a dry, clean, lidded container for disposal. Avoid inhalation. Ventilate area and wash spill site after material pickup is complete.

SECTION7 HANDLING AND STORAGE

Precautions for Safe Handling:

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and gloves(see Section 8). Avoid inhalation. Avoid contacting with eyes and skin. Handling is performed in a well ventilated place. Keep away from ignition sources, heat and flame. Wash hands and face thoroughly after operation. Avoid contact with incompatible materials(see Section 10). Handling and unloading should be light, to prevent packaging broken, damp and cause losses. Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Should be stored separately from incompatible materials(see Section 10). Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION8 EXPOSURE CONTROL/PPE

Control Parameters:

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1:

Color paste (black):Carbon black dust PC-TWA(Total dust) 4mg/m³ Remarks :G2B

Color paste (white):Titanium dioxide dust PC-TWA(Total dust) 8mg/m³ Remarks :G2B

ACGIH:

Color paste (black):Carbon black TLV-TWA 3 mg/m³, I

Color paste (white):Titanium dioxide TLV-TWA 0.2 mg/m³, R, nanoscale particles; 2.5 mg/m³, R, finescale particles

Appropriate Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Individual Protection Measures:

Eye/Face Protection:

Wear chemical safety glasses.

Skin Protection:

Hand Protection:Wear compatible protective gloves.

Body Protection:Wear appropriate protective clothing.

Respiratory Protection:

Wear government approved respirator.

Thermal Hazards:

No data available.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Gray Liquid
Odor:	Weak odor
pH Value:	No data available
Solubility:	immiscible in water
Melting Point/Freezing Point:	No data available
Boiling Point, Initial Boiling Point and Boiling Range :	No data available
Flash Point (Closed Cup):	>96.0°C
Density/Relative Density :	No data available
Kinematic Viscosity:	No data available
Upper/Lower Flammability or Explosive Limits:	No data available
Vapour Pressure:	No data available
Relative Vapor Density:	No data available
Partition Coefficient N-Octanol/Water (Log Value):	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
Particle Characteristics:	Not applicable
Flammability (Solid, Gas):	Not applicable

SECTION10 STABILITY AND REACTIVITY**Reactivity:**

No data available.

Chemical Stability:

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions:

No data available.

Conditions to Avoid:

No data available.

Incompatible Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Carbon oxides, nitrogen oxides, titanium oxides.

SECTION 11 TOXICOLOGICAL INFORMATION**Acute Toxicity:**

4-acryloylmorpholine:

LD₅₀ oral - rat - 588 mg/kg (OECD Test Guideline 401)

May be harmful if swallowed.

Skin Corrosion/Irritation:

No data available.

Serious Eye Damage/Irritation:

Ethoxylated Trimethylolpropane Triacrylate:

Eyes - Rabbit Result: Eye irritation - 24 h (OECD Test Guideline 405)

Causes serious eye damage.

Respiratory Sensitization:

No data available.

Skin Sensitization:

May cause an allergic skin reaction.

Germ Cell Mutagenicity:

No data available.

Carcinogenicity:

Color paste (black):

IARC: Carbon black Group 2B

Color paste (white):

IARC: Group 2B (Possibly carcinogenic to humans)

Suspected of causing cancer.

Reproductive Toxicity:

No data available.

Specific Target Organ Toxicity -Single Exposure:

No data available.

Specific Target Organ Toxicity -Repeated Exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard:

No data available.

SECTION12 ECOLOGICAL INFORMATION

Toxicity:

Ethoxylated Trimethylolpropane Triacrylate:

Toxicity to fish static test LC_{50} - Danio rerio (zebra fish) - 1.95 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EC_{50} - Daphnia magna (Water flea) - 70.7 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae static test ErC_{50} - Desmodesmus subspicatus (green algae) - 2.2 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria static test EC_{20} - activated sludge - 292 mg/l - 3 h (OECD Test Guideline 209)

Harmful to aquatic life.

Persistence and Degradability:

Ethoxylated Trimethylolpropane Triacrylate:

aerobic - Exposure time 28 d Result: 60 % - Readily biodegradable. (OECD Test Guideline 301B)

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION13 DISPOSAL CONSIDERATION

Disposal Methods:

Recycle as far as possible. If unable to recycle, it is recommended to use incineration method for disposal under supervision. This product should not be disposed of by discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. It is recommended to be disposed of by a qualified chemical waste treatment department.

SECTION14 TRANSPORT INFORMATION

RID/ADR(2025 Edition):

The product is not subject to RID/ADR.

IATA DGR(67th Edition):

The product is not subject to IATA DGR.

IMO IMDG CODE(2024 Edition):

The product is not subject to IMO IMDG CODE.

Environmental Hazards:

No

Special Precautions for User:

No data available.

Transport in bulk according to IMO instruments:

Not applicable

SECTION15 REGULATORY INFORMATION

Montreal Protocol:

Not listed.

Stockholm Convention:

Not listed.

Rotterdam Convention:

Not listed.

EINECS/ELINCS:

Color paste (black)、Ethoxylated Trimethylolpropane Triacrylate、Color paste (white) in the product are listed.

TSCA:

All ingredients in the product are listed.

IECSC:

Color paste (black)、4-acryloylmorpholine、Ethoxylated Trimethylolpropane Triacrylate、Color paste (white) in the product are listed.

SECTION16 OTHER INFORMATION**Preparation Date:**

2026-01-14

Preparation Department:

Shanghai Institute of Chemical Industry Testing Co., Ltd.

Tel (Fax): +86-21-52815377/31765555

Revision:

0

Reference Standard:

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), Eleventh revised edition

Abbreviations and Acronyms:

CAS: Chemical Abstracts Service EC: European Commission ACGIH: American Conference of Governmental Industrial Hygienists RID: Regulations concerning the International Carriage of Dangerous Goods by Rail ADR: Agreement concerning the International Carriage of Dangerous Goods by Road IATA DGR: International Air Transport Association Dangerous Goods Regulations IMO IMDG CODE: International Maritime Organization International Maritime Dangerous Goods Code MARPOL: International Convention for the Prevention of Pollution from Ships IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances TSCA: Toxic Substances Control Act IECSC: Inventory of Existing Chemical Substances in China PC-TWA: Permissible concentration-time weighted average TLV-TWA: Threshold limit value-time weighted average IARC: International Agency for Research on Cancer G2B: Possibly carcinogenic to humans LD₅₀: Lethal dose, 50% LC₅₀: Median lethal dose EC₅₀: Effective concentration of substance that causes 50% of the maximum response ErC₅₀: EC50 in terms of reduction of growth rate OECD: Organization for Economic Cooperation and Development I: Measured as Inhalable fraction of the aerosol R: Measured

as respirable fraction of the aerosol

Other Information:

This SDS is compiled based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.

END OF REPORT

