

# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Report No. NB2022010259EN

Date: January 13, 2022

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**Applicant Name** : SHENZHEN YONGCHANGHE TECHNOLOGY CO., LTD.

**Applicant Address** : ROOM 316, BUILDING A2 AND ROOM 103, BUILDING A3, FUHAI B2  
DISTRICT, FUYONG COMMUNITY, FUYONG STREET, BAO 'AN  
DISTRICT, SHENZHEN, CHINA

**Product Name** : DLP/SLA/LCD 3D Printer Photopolymer Resin

**Received Date** : January 10, 2022

**Compilation Period** : January 10, 2022 to January 13, 2022

**Regulatory Requirements** : As requested by the applicant, the Safety Data Sheet is prepared according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev\_8 (2019) .



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## SECTION 1. Identification of the substance/preparation and company

<b>1.1 Product Identification</b>	:	DLP/SLA/LCD 3D Printer Photopolymer Resin
<b>1.2 Model No.</b>	:	/
<b>1.3 Recommended Use</b>	:	3D printing consumables
<b>1.4 Manufacturer Name</b>	:	SHENZHEN YONGCHANGHE TECHNOLOGY CO., LTD.
<b>1.5 Manufacturer Address</b>	:	ROOM 316, BUILDING A2 AND ROOM 103, BUILDING A3, FUHAI B2 DISTRICT, FUYONG COMMUNITY, FUYONG STREET, BAO 'AN DISTRICT, SHENZHEN,CHINA
<b>1.6 Manufacturer Tel</b>	:	0755-27889946
<b>1.7 Manufacturer Fax</b>	:	/
<b>1.8 Manufacturer Email</b>	:	INFO@JAMGHE.COM
<b>1.9 Emergency Phone</b>	:	18566622993

## SECTION 2. Hazards identifications

### 2.1 Hazard Class:

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (part 2~4), classification of risk categories.

Skin corrosion/irritation, categories 2

Sensitisation, skin, categories 1

Serious eye damage/eye irritation, categories 2A

Aquatic Chronic 2

### 2.2 Pictograms:



### 2.3 Signal word:

Warning

### 2.4 Hazard description:



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- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.

### 2.5 Precautionary description:

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hand and face thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

### 2.6 Other hazard

PBT and vPVB: None

## SECTION 3. Composition / information on ingredients

Ingredient(s) of the product: Mixture

Substance name	Conc. (%)	CAS. No
Epoxy resin	55	55818-57-0
monomer	38	86178-38-3
Color pigment	2	13463-67-7,1333-86-4
Light initiator	5	84434-11-7

## SECTION 4. First aid measures

General advice: Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

### 4.1 Following inhalation:

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately

### 4.2 Following skin contact:

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15



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minutes and consult a physician if feeling uncomfortable.

#### 4.3 Following eye contact:

In case of contact may cause irritation, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician immediately if eyes are hurt.

#### 4.4 Following ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

## SECTION 5. Firefighting measures

#### 5.1 Hazardous Characteristics:

No hazardous characteristics.

#### 5.2 Extinguishing Media:

Dry powder, Chemical foam, Carbon dioxide, water mist.

#### 5.3 Firefighting procedures:

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

Take all precautions to avoid mixing with combustibles.

#### 5.4 Hazardous combustion products:

Carbon monoxide, organic volatiles

## SECTION 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective measures (SEE SECTION 8).

#### 6.2 Environmental precautions:

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

#### 6.3 Cleaning method:

Remove by liquid absorbing material (e.g. kieselguhr) . Adhered or collected material should be promptly disposed of. Disposal of discarded waste/pollutants refers to SECTION 13.



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## SECTION 7. Safe handling and storage

### 7.1 Handling Notes:

Keep indoor ventilation or local exhaust device.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Use only outdoors or in a well-ventilated area.

### 7.2 Storage Notes:

Stored in cool and dry condition.

Do not store with incompatible material (see section 10.2)

## SECTION 8. Exposure controls / personal protection

### 8.1 Occupational Exposure Limit:


No relevant data

### 8.2 Engineering Control:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Ensure that eyewash stations and safety showers are proximal to the work-station location.

### 8.3 Personal Protection:

General requirement:	
Respiratory:	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Eyes:	Wear protective goggle (Conform to EC EN 166 or US-NIOSH).
Hands:	Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.

### 8.4 Sanitary Measure:



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Forbid smoking, eating and drinking in working places. Washing hands after handling products.

## SECTION 9. Physical and chemical properties

<b>Appearance and Color</b>	Flowing liquid
<b>Odour</b>	Slight odor
<b>PH value</b>	6.8-7.2
<b>Flammability</b>	Noncombustible
<b>Density(g/cm<sup>3</sup>)</b>	<b>0.95-1.25</b>
<b>Relative steam density (air = 1)</b>	> 1
<b>Vapor pressure(MPa)</b>	< 0.01mmHg
<b>Octanol/water partition coefficient</b>	No Data
<b>Viscosity</b>	150-500mpa.s (25°C)
<b>Flash point(°C,Closed cup)</b>	> 250
<b>Boiling point(°C)</b>	140
<b>Melting point (°C)</b>	-60
<b>Evaporation rate (kg/s)</b>	No Data
<b>UEL %(V/V)</b>	Not Applicable
<b>LEL %(V/V)</b>	Not Applicable
<b>Auto-ignition temperature(°C)</b>	> 450
<b>Decomposition temperature(°C)</b>	> 250
<b>Solubility</b>	Insoluble in water, soluble in benzene, alcohol, ether and other organic solvents

## SECTION 10. Stability and reactivity

### 10.1 Stability:

Stable under recommended storage and handling conditions (See section 7).

### 10.2 Material for avoiding:

Strong oxide, acid and alkali, Strong reducing agent.

### 10.3 Contact conditions for avoiding:



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Sunlight, high temperature.

#### 10.4 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11. Toxicological information

#### 11.1 Acute toxicity:

Although no data of known appropriate health effects on humans or animals exist, this substance is expected to be mildly injurious in ingestion.

#### 11.2 Skin corrosion/irritation:

Causes skin irritation.

#### 11.3 Serious eye damage/irritation:

Exposure to products can cause severe eye irritation, with symptoms including severe pain, burning, tearing or swelling.

#### 11.4 Respiratory or skin sensitisation:

May cause an allergic skin reaction.

#### 11.5 Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

#### 11.6 Carcinogenicity:

Based on available data, the classification criteria are not met.

#### 11.7 Reproductive toxicity:

Based on available data, the classification criteria are not met.

#### 11.8 STOT-single exposure:

Based on available data, the classification criteria are not met.

#### 11.9 STOT-repeated exposure:

Based on available data, the classification criteria are not met.

#### 11.10 Aspiration hazard.:

Low volatility of the product under normal conditions of use. There are no symptoms that are harmful to health. Gas or vapor may be produced when the temperature is raised during the process. Causes



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irritation to the respiratory tract. Symptoms of respiratory irritation may include coughing, mucus secretion, and shortness of breath.

## SECTION 12. Ecological information

**12.1 Toxicity:**

No data available.

**12.2 Persistence and degradability:**

No data available.

**12.3 Bioaccumulative potential:**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Other Dangers:**

PBT and vPVB evaluation results: Not applicable

## SECTION 13. Disposal considerations

**13.1 Handling method for waste:**

Handling waste according to the local regulations. Contact specific waste disposal company or companies recommended by local laws.

**13.2 Handling method for uncleaned packaging**

Processing as general waste processing after the empty container.

## SECTION 14. Transport information

**This is not classified as a hazardous/dangerous material under IATA, IDMG, DOT regulations.**

<b>Packaging Label</b>	None
<b>UN NO</b>	None
<b>Technical name</b>	None



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<b>Transport hazard class</b>	None
<b>Subsidiary hazard class</b>	None
<b>Packing group</b>	None
<b>Special Provisions</b>	None

## SECTION 15. Regulatory information

### 15.1 Safety, health and environmental regulations / laws for pure substances or mixtures

**Catalogue of hazardous chemicals (2015 Edition)**

Not included in the list.

**MAK (German Maximum Workplace Concentration)**

Not included in the list.

**EU law 2012/18/EU**

Hazardous substances Appendix I: Not included in the list.

Seveso category: Not applicable

Qualifying quantity( tonnes) for the application of lower-tier requirements: Not applicable

Qualifying quantity( tonnes) for the application of upper-tier requirements: Not applicable

**Other regulations:**

Not included in the list.

**EU regulations Reach annex XVII restricted substances (2062019)**

Not included in the list.

**Substances authorized in Annex IV of EU regulation reach (13 / 6 / 2017)**

Not included in the list.

### 15.2 Safety assessment of chemical substances

Not evaluated

## SECTION 16. Other information

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications



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