# MATERIAL SAFETY DATA SHEET
# (MSDS)



| | | |
|---|---|---|
| **Applicant Name** | : | Guangzhou iFun Technology Co.,Ltd |
| **Applicant Address** | : | 5 Floor, 9 South Road Licun, Panyu District Guanghzou |
| **Product Name** | : | Photosensitive resin |
| **Report No.** | : | RT20220922000002 |
| **Received Date** | : | 2022-9-22 |
| **Redact Period** | : | 2022-9-22 |
| **Regulatory Requirements** | : | As requested by the applicant, the Material Safety Data Sheet is prepared according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS)Rev_9. |

DONGGUAN RUITONG TESTING TECHNOLOGY SERVICE CO., LTD.

APPROVED

Date: 2022-9-22

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# Material Safety Data Sheet



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

| | | |
|---|---|---|
| **1.1 Product Name** | : | Photosensitive resin |
| **1.2 Model No.** | : | / |
| **1.3 Recommended Use** | : | 3D Printing |
| **1.4 Applicant Name** | : | Guangzhou iFun Technology Co.,Ltd |
| **1.5 Applicant Address** | : | 5 Floor, 9 South Road Licun, Panyu District Guanghzou |
| **1.6 Manufacturer Name** | : | Guangzhou iFun Technology Co.,Ltd |
| **1.7 Manufacturer Address** | : | 5 Floor, 9 South Road Licun, Panyu District Guanghzou |
| **1.8 Tel / Fax** | : | 86-15625106951 |
| **1.9 Email** | : | ivy@ifun3d.com |
| **1.10 Emergency Phone** | : | / |

## SECTION 2. Hazards identifications

**2.1 Hazard Classification of substance or mixture(GHS):**

Skin corrosion/irritation category 2

Sensitisation, skin category 1B

Serious eye damage/eye irritation category 2A

Specific target organ toxicity, single exposure; Respiratory tract irritation category 3

Reproductive toxicity category 2

Hazardous to the aquatic environment,long-term hazard category 3

**2.2 Pictograms:**

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**2.3 Signal word:**

Warning

**2.4 Hazard description:**

H315:Causes skin irritation

H317:May cause an allergic skin reaction

H319:Causes serious eye irritation

H335:May cause respiratory irritation

H361:Suspected of damaging fertility or the unborn child

H412:Harmful to aquatic life with long lasting effects

**2.5 Precautionary description:**

P203:Obtain, read and follow all safety instructions before use.

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

P264+P265:Wash hands and face thoroughly after handling.Do not touch eyes.

P271:Use only outdoors or in a well-ventilated area.

P272:Contaminated work clothing should not be allowed out of the workplace.

P273:Avoid release to the environment.

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

## SECTION 3. Composition / information on ingredients

The difference between the single product and mixture: Mixture

| Substance name | Conc. (%) | CAS. |
|---|---|---|
| Polyester acrylate (I) | 40-80 | 25035-69-2 |
| E03TMPTA | 20-40 | 28961-43-5 |
| TPO | 1-5 | 75980-60-8 |
| Pigment | 1-3 | / |

## SECTION 4.First aid measures

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

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**4.1 Following eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately consult a physician if feeling uncomfortable.

**4.2 Following skin contact:**

Wash skin with water and soap. Immediately consult a physician if feeling uncomfortable.

**4.3 Following inhalation:**

Move victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give cardiopulmonary resuscitation and consult a physician immediately.

**4.4 Following ingestion:**

If it is ingested, rinse the mouth with water.Seek medical attention immediately.

## SECTION 5. Firefighting measures

**5.1 Special hazards arising from the substance or mixture:**

Not considered to be a fire hazard.Not easily ignited by fire.

**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.

Extinguish fire in a safe distance with enough protection

Prevent fire extinguishing water from contaminating surface water or the ground water system.

**5.4 Hazardous combustion products:**

No data available

## SECTION 6.Accidental release measures

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

Avoid contacting with eye and skin.

Ensure adequate ventilation.Clear all fire points.

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Evacuate personnel to safe areas. Keep people away from upwind of spill/leak.

Wear appropriate protective measures (SEE SECTION 8).

**6.2 Environmental precautions:**

Do not empty into drains. If the product contaminated 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.

## SECTION 7. Safe handling and storage

**7.1 Handling Notes:**

Closed operation.

Keep away from fire and heat.

Avoid sun exposure.

Keep indoor ventilation or local exhaust device.

Handle with care when handling to prevent damage to packaging and containers.

Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emergency treatment equipment.

**7.2 Storage Notes:**

Keep away from fire and heat.

Store in a cool, ventilated place.

The storage area should be equipped with suitable materials to contain spills.

Stored in compatible containers.

Keep storage containers sealed.

Do not store with food containers or incompatible materials (see section 10.2)

## SECTION 8. Exposure controls / personal protection

**8.1 Occupational Exposure Limit:**

No information found

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**8.2 Engineering Control:**

Keep substances sealed during production and keep indoor ventilation.Where reasonably practicable, this should be achieved by the use of localexhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations ofparticulates 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 Respiratory Protection:**

Wear filter mask.

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.

**8.4 Eyes Protection:**

Wear protective goggle in working time.( Comply with the European Union EN 166 or The U.S. NIOSH standard.)If contacting with eyes, flush with plenty of water, If you have discomfort, seek medical advice

**8.5 Hands Protection:**

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.Wash with plenty of water if gloves puncture or skin exposure.

**8.6 Sanitary Measure:**

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

## SECTION 9. Physical and chemical properties

| | |
|---|---|
| **Appearance and Color** | White / grey / black / purple / blue / translucent liquid |
| **Odour** | Weak odor |
| **PH value** | No Data |
| **Flammability** | Non flammable |
| **Flash point(℃,Closed cup)** | No Data |
| **Boiling point(℃)** | No Data |
| **Freezing point (℃)** | No Data |

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| | |
|---|---|
| **Density(g/cm³)** | 1.1 |
| **Relative steam density (air = 1)** | No Data |
| **Vapor pressure(MPa)** | No Data |
| **Octanol/water partition coefficient** | No Data |
| **Viscosity （mPa/s）** | 300 |
| **Evaporation rate (kg/s)** | No Data |
| **UEL %(V/V)** | No Data |
| **LEL %(V/V)** | No Data |
| **Auto-ignition temperature(℃)** | No Data |
| **Decomposition temperature(℃)** | No Data |
| **Solubility** | Insoluble in water |

## 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.

**10.3 Contact conditions for avoiding:**

Fire,High temperature.

**10.4 Hazardous decomposition products:**

No data available

## SECTION 11. Toxicological information

**11.1 Acute toxicity:**

No information found.

**11.2 Skin corrosion/irritation:**

Causes skin irritation

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**11.3 Serious eye damage/irritation:**

Causes serious eye irritation

**11.4 Respiratory or skin sensitisation:**

May cause an allergic skin reaction

May cause respiratory irritation

**11.5 Germ cell mutagenicity:**

No information found.

**11.6 Carcinogenicity:**

No information found.

**11.7 Reproductive toxicity:**

Suspected of damaging fertility or the unborn child

**11.8 STOT-single exposure:**

No information found.

**11.9 STOT-repeated exposure:**

No information found.

**11.10 Aspiration hazard.:**

No information found.

## SECTION 12. Ecological information

**12.1 Ecotoxicity:**

According to the environmental protection laws, this product can't be poured into sewers or drainage ditches, can't be discarded in those places which would affect soil and underground water.

**12.2 Persistence and degradability:**

No data available.

**12.3 Bioaccumulative potential:**

No data available.

**12.4 Mobility in soil:**

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No data available.

**12.5 Other adverse effects:**

No data available

## SECTION 13. Disposal considerations

**13.1 Handlingmethod 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:**

According to official regulations.

## SECTION 14. Transport information

**IMDG,ICAO/IATA,ADR/RID 14.1 UN NO.:** Not classified

**IMDG,ICAO/IATA,ADR/RID 14.2 Class:** Not classified

**IMDG,ICAO/IATA,ADR/RID 14.3 Packaging group:** Not classified

**IMDG,ICAO/IATA,ADR/RID 14.4 Technical name:** Not classified

**IMDG,ICAO/IATA,ADR/RID 14.5 Label:** Not classified

**14.6 Attention Notes:** Gentle with, prevent collision drag and dump.Prohibition with antioxidant and chemical mixed stowage,transit should prevent sun、fire、rain and high temperature

## SECTION 15. Regulatory information

Hazardous chemicals catalog

International maritime dangerous goods code

Dangerous Goods Number Of United Nations

Technical Instructions for the Safe Transport of Dangerous Goods by Air

Classification and code of dangerous goods

Occupational Safety and Health Act (OSHA)

The principle of classification of transport packaging groups of dangerous goods

Globally Harmonized System of Classification and Labelling of Chemicals

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In accordance with all local laws.

## SECTION 16. Other information

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