

Material Safety Data Sheet (MSDS)

Report No.:	H2409100480014
Date:	Sep.10.2024
Product Name:	Photopolymer Resin for 3D Printing
Applicant:	Yangzhou Magiflex Technology Co., Ltd
Supplier:	Yangzhou Magiflex Technology Co., Ltd
Trademark/Brand:	Magiflex
Model:	MFR100,MFR150,MFR300,MFR400,MFR500,MFR550,MFR600,MFR700, MSER800,MSER820,MSER850
Remark:	The MSDS is prepared based on the information provided by client.

Hengwei Testing Technology (Huizhou) Co., Ltd.



1 Identification of the substan/mixture and of the company/undertaking

Product Name: Photopolymer Resin for 3D Printing

Model: MFR100,MFR150,MFR300,MFR400,MFR500,MFR550,MFR600,MFR700,

MSER800,MSER820,MSER850

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2 Hazards identification

GHS Classification

Skin Corrosion/irritation, Category 2

Severe eye injury/irritation, Category 2

Skin Sensitizer, Category 1

Reproductive toxicity, Category 1B

GHS labeling elements, including precautionary statements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H360Fd May damage fertility. May damage the unborn child.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.(omit for consumer products where P202 is used.)

P202 Do not handle until all safety precautions have

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

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

P264 Wash ... thoroughly after handling.

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

Response:

P321 Specific treatment (see ... on this label).

P363 Wash contaminated clothing before reuse.

P302+P352 IF ON SKIN: Wash with plenty of water/...

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P308+P313 IF exposed or concerned: Get medical advice/attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to ...

3 Composition/information on ingredients

Component	CAS	Weight % content
Polyurethane acrylate	-	35-55
2-Hydroxyethyl methacrylate	868-77-9	10-50
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	3-5

4 First-aid measures

Inhalation: Get out of the scene quickly to fresh air. Keep airway open. If breathing is difficult, give oxygen. If breathing stops, administer artificial respiration immediately. Seek medical attention.

Skin contact: Immediately remove contaminated clothing and rinse thoroughly with soapy water and water.

Seek medical attention. Eye contact: Immediately separate eyelids and rinse thoroughly with running water or saline. Seek medical attention.

Ingestion: Rinse mouth and do not induce vomiting. Seek immediate medical attention.

5 Fire-fighting measures

Extinguishing agent medium

Fire extinguishing methods and extinguishing agents. Use suitable fire extinguishing measures according to the prevailing situation and surrounding environment.

Special hazards: Non-combustible

Fire fighting precautions and protection measures. In case of fire, wear self-contained breathing apparatus, spray water to suppress gas/vapor, etc.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

1 Use personal protective equipment, do not breathe gas/mist/vapour/spray.

2 Ensure adequate ventilation. Remove all sources of ignition.

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

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. 2 Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Cut off the source of the leak as much as possible.

Keep leaks in a ventilated place.

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

7 Handling and storage

Operating Precautions.

Prevent static charge build-up (e.g. by grounding).

Operators should be specially trained and strictly follow the operating procedures.

Operation and disposal should be carried out in places with local ventilation or full ventilation facilities.

Avoid eye and skin contact and inhalation of vapors.

See Part 8 for individual protective measures.

Keep away from fire and heat sources, no smoking in the workplace.

Use explosion-proof ventilation systems and equipment.

If tanking is required, the flow rate should be controlled and grounded to prevent static build-up.

Avoid contact with forbidden substances such as oxidizers (see Part 10 for forbidden substances).

Handle gently to prevent damage to packaging and containers.

Emptying the container may leave harmful substances.

Wash your hands after use and prohibit eating and drinking in the workplace.

Equip with appropriate variety and quantity of fire-fighting equipment and spill emergency treatment equipment.

Storage precautions: Store separately from strong oxidizers, strong bases, metals and food and feed. See chemical hazards. Keep cool. Strictly sealed. Ventilate along the ground.

8 Exposure controls/personal protection

Occupational exposure limits: No information available

Biological limits: no relevant information available

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practices. Wash hands after work and before breaks.

Personal protective measures such as personal protective equipment:

Eye/face protection: wear safety glasses or eyewear protection combined with respiratory protection.

Skin protection: wear work clothing that is resistant to toxic penetration.

Respiratory protection: Take ventilation, local exhaust or respiratory protection.

Hand protection: protective gloves, protective clothing.

9 Physical and chemical properties

Physical state: Liquid

Colour: Multicolored

Odour: Slightly smelly

Melting point/freezing point: No information available

Boiling point or initial boiling point and boiling range: No information available

Flammability: Not flammable

Upper/ Lower explosion limits[% (v/v)]: Upper limit: No information available; Lower limit: No information available

Flash point: Not applicable

Auto-ignition temperature: No information available

Decomposition temperature: No information available

pH: Not applicable

Kinematic viscosity: No information available

Solubility: Insoluble in water

Partition coefficient: n-octanol/water (log value) : No information available

Vapour pressure: No information available

Density and/or relative density: No information available

Relative vapour density: No information available

Particle characteristics: No information available

10 Stability and reactivity

Stability: Stable

Hazardous Reactions: No information available

Conditions to avoid contact: Electrostatic discharge, heat, humidity, etc.

Prohibited Compound: No information available

Hazardous Decomposition Products: No information available

11 Toxicological information

Acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration hazard: No data available

12 Ecological information

Ecotoxicity: No data

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

13 Disposal considerations

Waste chemicals: Dispose of in accordance with relevant national and local regulations, or contact the factory or manufacturer to determine the disposal method.

Contaminated packaging: Return container to manufacturer or dispose of in accordance with national or local regulations

Disposal Notes: Please refer to relevant national and local regulations before disposal

14 Transport information

Label

Transport Label: Not applicable

UN-Number

ADR/RID/ADN, IMDG, IATA : Not applicable

UN proper shipping name

ADR/RID/ADN, IMDG, IATA : Not applicable

Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA : Not applicable

Packing group

ADR/RID/ADN, IMDG, IATA : Not applicable

Environmental hazards: No

15 Regulatory information

Regulatory information: ISO 11014-2009 Safety data sheets for chemical products - Contents and sequence of parts.

Regulation (EC) No. 1272/2008 Classification, labelling and packaging of substances and mixtures.

16 Other information

16.1 Release record

Date of issue / Date of revision : 2024.9.10

16.2 DISCLAIMER OF LIABILITY

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===== END OF REPORT =====