



MATERIAL SAFETY DATA SHEET

YOUSU 3D printing UV photosensitive resin
Guangzhou Yousu 3D Technology Co., Ltd.

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Revision Date: 03/21/2024
MSDS Number: YS-iForm2024013
Version: 1.0

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Section 1. Product and Company Identification

Product identifier

Product Name:

Low Shrinkage Resin

Recommended use:

3D Printing UV Sensitive Resin

Manufacture/Supplier:

Guangzhou Yousu 3D Technology Co., Ltd.

Address:

Building 1, No.4 Linxin Road, Xiancun Town, Zengcheng District, Guangzhou, Guangdong, China

E-mail:

sales@ysfilament.com

Website:

<http://www.ysfilament.com>

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Section 2. Composition/Information on Ingredients

Chemical name or trivial, common or generic name	CAS No.	Content(%)
Acrylated aliphatic urethane	68987-79-1	32~51
Monomer	28961-43-5	8~13
Monomer	66492-51-1	16~33
Photoinitiator	162881-26-7	1.5~2.5
Pigment	1333-86-4	0.1~0.5

Section 3. Hazards Identification

GHS classification

PHYSICAL HAZARDS

no data available

HEALTH HAZARDS

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

ENVIRONMENTAL HAZARDS

no data available

GHS label elements, including precautionary statements

Pictograms or hazard symbols



Signal word

Warning

Hazard statements

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary statements Prevention

P264 Wash ... thoroughly after handling.

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

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

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

Response



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

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

P332+P317 If skin irritation occurs: Get medical help.

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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P319

Get medical help if you feel unwell.

Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 4. First-aid Measures

Inhalation:

Remove to fresh air. If breathing is difficult, get medical attention.

Skin contact:

Wash with plenty of soap and water. Consult a physician.

Eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 15 minutes. If irritation persists, get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Get medical attention.

Section 5. Fire-fighting Measures

Extinguishing media:

This product is not hypergolic, use carbon dioxide or dry chemical for small fires; aqueous foam or water spray for large fires.

Specific hazards arising from the chemical:

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special precautions for firefighters:



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Wear self-contained breathing apparatus for firefighting if necessary.

Remarks:

This material will support combustion if ignited.

Sections 6. Accidental release measures

Personal precautions:

For large spills wear gloves, safety glasses. Keep unnecessary personnel away.

Environmental precautions:

Prevent discharge to open waters.

Method of cleaning up:

Take up with liquid-absorbent material. Forward for disposal and clean up affected area.

Sections 7. Handling and storage

Handling information:

Avoid contact with the eyes, skin and clothing. Avoid breathing dust or fumes. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Do not reuse containers. Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

Storage information:

Store in a cool (<131°F/<55°C), well ventilated location, away from heat, flame, light or other incompatible materials. Avoid freezing the material.

Sections 8. Exposure controls personal protection

Personal precautions

The usual precautions taken when handling chemicals should be observed. Refer to product data sheet for recommended specific use. Do not inhale vapors, do not get in eyes, on skin or clothing. Wash hands thoroughly after handling.

Personal protection

Respiratory protection:

Required when vapors/aerosols are generated. Preferably work in a chemical fume hood or wear adequate mask with filter.

Skin protection:



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Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Eye/Face protection:

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Sections 9. Physical and chemical properties

Appearance:	Liquid	Autoflammability:	N/D
Color:	Colored	Flashing point:	>93°C/199.4F
Odor:	Peculiar smell	Explosion limits:	N/D
pH(20°C):	N/D	Vapor pressure:	N/D
Viscosity:	1500-1550 cps at 25°C /77F	Relative density:	1.03-1.08g/cm³ at 25°C/77F
Boiling range:	N/D	Solubility in water:	Nearly insoluble in water.
Melting point:	N/D	logp(o/w):	N/D

Sections 10. Stability and reactivity

Chemical stability:

The product is stable when stored under the recommended conditions.

Possibility of hazardous reactions/Contions to avoid:

Hazardous reactions will not occur. Avoid heat and light.

Incompatible materials:

Amines, oxidizing materials and peroxides.

Sections 11. Toxicological information

Acute toxicity

Ld/Ic50 values relevant for classification:

No data available

Skin irritation/corrosion:

No data available

Eye danger/irritation:



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No data available

Respiratory or skin sensitization:

No data available

Reproductive cell mutagenicity:

No data available

Carcinogenicity:

No data available

Reproductive toxicity:

No data available

Sections 12. Ecological information

Biologic degradation:

No data available

Behavior in environmental compartments:

No data available

Eco-toxic effects:

No data available

Sections 13. Disposal considerations

Waste disposal

Recommendation:

Dispose of in accordance with federal, state and local regulations.

Packaging

Recommendation:

Disposal in accordance with local provisions. Contaminated packages should be treated the same as the product itself.

Sections 14. Transport information

UN number:

Not regulated

UN proper shipping name:

Not regulated

Transport hazard class:

-

Other requirements:



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Not regulated

Sections 15. Regulatory information

Australian Inventory of Chemical Substances(AICS) Listed

EC Inventory Listed

United States Toxic Substances Control Act (TSCA) Inventory Listed

New Zealand Inventory of Chemicals (NZIoC) Listed

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) Listed

Sections 16. Other information

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. We make no warranty express or implied, with respect to the information and assume no liability. Product users should determine the suitability of this information for their own uses.

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