

SAFETY DATA SHEET

Revision date: 2024/11/06

SECTION1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product name:** Standard**Recommended use of the chemical and restrictions on use :****Use of the Substance/Mixture :** 3D printing**Manufacturer/Supplier:**

Suzhou Laixin 3D Technology Co., Ltd

209, Building 1, Xinhong Industrial Park, No.9 Suhong West Road, Suzhou Industrial Park

215000, China

Tel:+86 400 0983 356**E-mail:**support@rayshape3d.com**Internet:** www.rayshape3d.com.cn**Further information obtainable from:**

Suzhou Laixin 3D Technology Co., Ltd

Emergency telephone number: +86 400 0983 356**SECTION2. HAZARDS IDENTIFICATION****2.1.Classification of the substance or mixture:**

Acute toxicity	Category 4, H302
Skin corrosion/irritation	Category 2, H315
Skin sensitization	Category 1, H317
Eye irritation	Category 1, H318
Chronic aquatic	Category 2, H412
Acute aquatic	Category 2, H401

Additional information:

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2.Label elements**GHS-Labeling:**

Hazard pictograms:



GHS07

Signal word: Warning

Hazard statements: ,

H302: Harmful if swallowed.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H318 : Cause serious eye damage.

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H335 : May cause respiratory irritation.

H412 : Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

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

P264 : Wash skin thoroughly after handling.

P270 : Do not eat, drink or smoke when using this product.

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

P273 : Avoid release to the environment.

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

Response:

P301 + P312 : IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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

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

P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.

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

P391 : Collect spillage.

Disposal:

P501 : Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards:**Potential health effects:**

Possible irritation of respiratory system

Environmental Effects:

Toxic to fish. Harmful to daphnia. Harmful to algae. Not readily biodegradable.

Physical and chemical hazards:

Formation of toxic products through combustion

SECTION3. COMPOSITION/INFORMATION ON INGREDIENTS**This product is a mixture.**

Chemical nature of the mixture:

Hazardous components:

Composition	CAS-No.	EC-No.	Classification	Concentration
2-Oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-hydroxyethyl acrylate-blocked	68987-79-1	848-035-8	H317 H318	30-80%
Oxybis(methyl-2,1-ethanediyl) diacrylate	57472-68-1	260-754-3	H302 H315 H317 H318 H412	20-50%

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SECTION4. FIRST AID MEASURES**Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Never give anything by mouth to an unconscious person. Rinse out mouth with water.

Seek medical treatment.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION5. FIREFIGHTING MEASURES**Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture:

No further relevant information available.

Special protective equipment and precautions for firefighters**Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

SECTION6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Prohibit contact with skin and eyes. Avoid inhalation of vapour or mist.

Environmental precautions:

Do not flush into surface water or sanitary sewer system. Do not release into the environment.

Methods and materials for containment and cleaning up:**Recovery:**

Shovel into suitable container for disposal. Absorb the remainder with an inert absorbent material (sand, vermiculite, perlite). Use clean non-sparking tools to collect absorbed material.

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Elimination:

Contain spillage, and then collect with non-combustable absorbent material and place in container for disposal according to local/national regulations

Reference to other sections: None.

SECTION 7. HANDLING AND STORAGE**7.1. Precautions for safe handling:****Technical measures/Precautions:**

Storage and handling precautions applicable to products: Liquid. Harmful to the environment. Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths.

Safe handling advice:

Operators should be specially trained and strictly abide by the operating procedures.

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

Hygiene measures:

Do not eat, drink or smoke when using.

Wash hands and contact areas after use, and remove contaminated clothing and protective equipment when entering the eating area.

7.2. Conditions for safe storage, including any incompatibilities:

Store in a dry, cool and well-ventilated place, away from heat and light, and away from open flames.

Storage temperature: 0°C ~ 38°C

The service life is 24 months.

7.3. Specific end use(s): None.**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters:**

Exposure Limit Values Not relevant

8.2. Exposure controls:**Appropriate engineering controls:**

When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection:



Protective gloves

Gloves nitrile rubber

Products used with solvents

Do not use: Natural Rubber. Gloves should be discarded and replaced if

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there is any indication of degradation or chemical breakthrough.

Eye/face protection:

Safety glasses with side-shields, Do not wear contact lenses.

Skin and body protection:

Long sleeved clothing

SECTION9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Appearance:

Form:	Liquid
Color:	White/Black/Grey
Odor:	Slight
Odor threshold:	Not available.
pH-value:	pH ~ 7
Change in condition:	
Melting point/freezing point:	Not available.
Boiling point / Boiling range:	Not available.
Flash point:	> 100°C.
Flammability (solid, gaseous):	Not applicable.
Auto-Ignition temperature:	Not available.
Decomposition temperature:	Not available.
Explosion limits:	Not available.
Lower:	Not available.
Upper:	Not available.
Vapor pressure:	Not available.
Density:	Not available.
Relative density (Water=1) :	1.1-1.2 g/cm ³ , at 25°C
Vapor density:	Not available.
Evaporation rate:	Not available.
Solubility in / Miscibility with Water:	Not available.
Partition coefficient (n-octanol/water):	Not available.
Viscosity,Dynamic:	100-300 mPa.s , at 25°C
Kinematic:	Not available.

Other information:

No further relevant information available.

SECTION10. STABILITY AND REACTIVITY

Reactivity: No data available.**Chemical stability:** The product is stable under recommended handling and storage conditions.**Possibility of hazardous reactions:** No dangerous reactions known.**Conditions to avoid:** Light source and high temperature.**Incompatible materials to avoid:** Acids, Bases, Oxidizing agents, Reducing agents

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Hazardous decomposition products: Formation of toxic products through combustion:, Carbon oxides, Nitrogen oxides (NOx)

SECTION11. TOXICOLOGICAL INFORMATION**Acute toxicity**

LD/LC50 values that are relevant for classification: Not available.

Primary irritant effect

Skin corrosion/irritation: Irritant to skin and mucous membranes.

Serious eye damage/irritation: Strong irritant with the danger of severe eye injury.

Respiratory or skin sensitisation: Sensitization possible through skin contact.

Additional toxicological information:**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

SECTION12. ECOLOGICAL INFORMATION**Toxicity**

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Other adverse effects No further relevant information available.

SECTION13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

SECTION14. TRANSPORT INFORMATION**Classification for ROAD and Rail transport :**

Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Not regulated for transport

Consult IMO regulations before transporting ocean bulk

Transport in bulk

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according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Classification for AIR transport (IATA/ICAO):

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	
Section 355 (extremely hazardous substances):	None of the ingredient is listed.
Section 313 (Specific toxic chemical listings):	None of the ingredient is listed.
TSCA (Toxic Substances Control Act):	All ingredients are listed.
Chemicals known to cause cancer:	None of the ingredient is listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredient is listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredient is listed.
Chemicals known to cause developmental toxicity:	None of the ingredient is listed.
Nw Jersey Right-to-Know List:	None of the ingredient is listed.
New Jersey Special Hazardous Substance List:	None of the ingredient is listed.
Pennsylvania Right-to-Know List:	None of the ingredient is listed.
Pennsylvania Special Hazardous Substance List:	None of the ingredient is listed.
Carcinogen categories	
EPA (Environmental Protection Agency):	None of the ingredient is listed.
TLV (Threshold Limit Value established by ACGIH):	None of the ingredient is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health):	None of the ingredient is listed.

SECTION16. OTHER INFORMATION**Relevant hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

DISCLAIMER OF LIABILITY :

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