



MATERIAL SAFETY DATA SHEET REPORT

Report No: TH2306260-C04-R01

Test Engineer:

Reviewed By:

Approved By:



Name of sample: Model resin

Model: RF-MI-2103

Consigner: Shenzhen Rayform Technology Co., Ltd.

Supplier: Shenzhen Rayform Technology Co., Ltd.

Report Date: 2026-01-05

Shenzhen Tian Hai Test Technology Co.,Ltd.

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Section 1. Product Identification

Product Name: Model resin

Model: RF-MI-2103

Rating: /

Applicant Name: Shenzhen Rayform Technology Co., Ltd.

Applicant address: Room 302, Building 3, Guole Science and Technology Park, 1 Lirong Road, Dalang Subdistric, Longhua District, Shenzhen, Guangdong, China

Tel: /

Manufacturer Name: Shenzhen Rayform Technology Co., Ltd.

Manufacturer address: Room 302, Building 3, Guole Science and Technology Park, 1 Lirong Road, Dalang Subdistric, Longhua District, Shenzhen, Guangdong, China

Section 2. Hazards Identification

2.1 Classification of substances or mixtures

Skin irritation (Class 2), H315. Eye irritation (Class 2), H319.

Skin allergy (Class 1), H317. Aquatic Chronic Disease (Class 3), H412

2.2 Label Elements

Hazard pictogram



GHS 07 GHS 09

Keywords - Warning

Hazard Statement

H315 causes skin irritation. H317 may cause skin allergic reactions. H319 can cause serious eye irritation.

H412 is harmful to aquatic organisms and has long-lasting effects.

Preventive Declaration - General

P101 If medical advice is needed, please prepare product containers or labels. Keep away from places out of reach of children.

Preventive measures

P280 Wear protective gloves/clothing, eye protection goggles/ facial protection equipment.

Dispose of P501 and dispose of contents/containers to industrial incineration plants.



Section 3. Composition, Information on Ingredients

Hazardous substance composition	CAS.NO	Concentration or concentration range
Aliphatic polyurethane acrylate	68987-79-1	25-55%
Photoinitiator	270586-78-2	1-10%
Silicon additive	7631-86-9	0.1-5%
Titanium dioxide	13463-67-7	0.1-5%
N-acryloylmorpholine	5117-12-4	25-55%
Hexanediol diacrylate	13048-33-4	4-20%
Tripropylene glycol diacrylate	42978-66-5	4-20%
Other acrylate oligomers	Confidential	1-7%

Section 4. First Aid Measures

Skin contact: Immediately wash with water and soap.

Eye contact: Rinse with eye wash or water, separate the eyelids for at least 15 minutes, and consult an ophthalmologist.

Ingestion: If swallowed, drink plenty of water immediately. When the patient is not unconscious, vomiting is induced.

Further medical treatment

Need Symptomatic treatment and supportive Sex therapy

Section 5. Fire Fighting Measure

The product itself is not flammable. Do not inhale smoke in the event of a fire and/or explosion. Suitable extinguishing media:

Foam, dry extinguishing powder and carbon dioxide.

Special hazards caused by the substance or mixture

No data available.

Special protective equipment for firefighters

In case of fire: Wear an independent respirator.

Section 6. Accidental Release Measures

Eliminate ignition sources. Ensure appropriate personal protective equipment (including respiratory system protection during disassembly or spillage).

Do not discharge into drainage ditches, surface water, or groundwater.

Absorb with inert absorbent and treat as hazardous waste. Keep it suitable and close the container for handling.



Section 7. Handling and storage

Operating precautions: Operators must undergo specialized training and strictly adhere to operating procedures. It is recommended that operators wear self-priming filtering Dust mask and chemical safety goggles. Keep away from sparks and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. Avoid breathing vapors. Avoid contact with the body. Light loading and unloading during transportation to prevent packaging damage.

Equip corresponding types and quantities of firefighting equipment and emergency response equipment for leaks. Empty containers may have residual harmful substances. Storage precautions: Store in the original container in a cool, dry, and well ventilated warehouse. Do not expose to direct sunlight and stay away from incompatible substances. Equip corresponding types and quantities of fire-fighting equipment. The storage area should be equipped with suitable materials to contain leaks.

Section 8. Exposure Controls, Person Protection

Respiratory protection: In case of exposure or high concentration of vapor, it is recommended to wear a self-priming filtering Dust mask. When rescuing or evacuating in an emergency, an air respirator should be worn. If necessary, wear chemical safety goggles.

Eye protection:

Body protection: Wear general work protective clothing.

Hand protection: Wear general work protective gloves.

Other: Smoking, eating, and drinking are prohibited in the workplace, and containers must be tightly covered to avoid breathing vapors and contact. After completing work, maintain good hygiene habits.

Section 9. Physical and Chemical Properties

Appearance: Hall liquid

Odor: Acrylate

PH: Undetermined

Melting point: undetermined

Initial boiling point: >149 °C

Flash point: undetermined

Water solubility: insoluble

Density: 1.05-1.15 g/L (25 °C)

Viscosity: 1000 ± 200 MPa. s (25 °C)



Section 10. Stability and Reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

This product remains stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

No data available.

10.4 Conditions to avoid

Ultraviolet radiation, sunlight exposure, and increased temperature.

10.5 Incompatible Materials

Strong oxidant, reducing agent, peroxide and Radical initiator.

10.6 Hazardous decomposition products

Oxocarbon during combustion.

Section 11. Toxicological Information

Acute toxicity:

LD50 acute oral administration in rats:>1000 mg/kg

LD50 acute dermal rat:>1000 mg/kg

Eye irritation

Mild irritation (rabbit).

Skin sensitivity

May cause sensitization through inhalation and skin contact.



Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

LC50 Acute toxicity of Zebrafish: >20 mg/L (96 h)

EC50 acute water flea toxicity: >300 mg/L (48 hours)

EC50 acute duckweed toxicity: ≥200 mg/L (72 hours)

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation potential

Not easily biodegradable (according to OECD standards)

12.4 Soil Mobility

No relevant data available.

There is no data available on the evaluation results of 12.5 PBT and vPvB.

12.6 Other adverse effects

No relevant data available.

Section 13. Disposal Considerations

Waste disposal method: Dispose of according to all local regulations and provide residual and non recyclable solutions to licensed disposal companies.

Contaminated packaging: The method of handling contaminated packaging is the same as the method of handling the substance itself.

Section 14. Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.



Section 15. Other Regulatory Information

Federal and State Regulations: Non-ionic interface active agent, ethanolamine

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

WHMIS (Canada): Not applicable

DSCL (EEC): Not applicable

Protective Equipment: Not applicable.

Section 16. Other Information

References: Not available

Created: 06/20/ 2023

Last Updated: 06/20/2023

Emergency Contact:

Shenzhen Rayform Technology Co., Ltd.

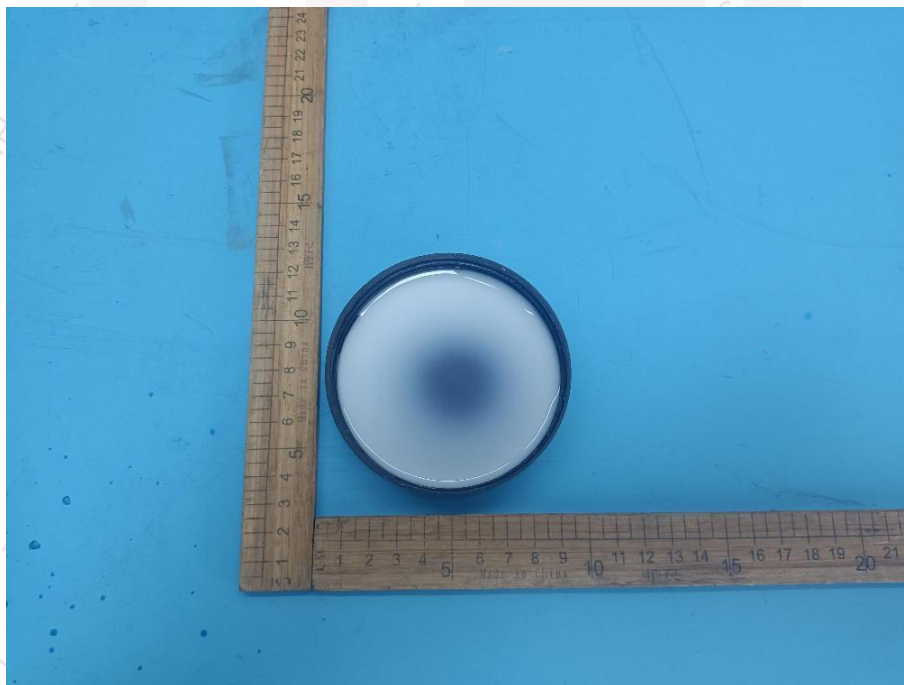
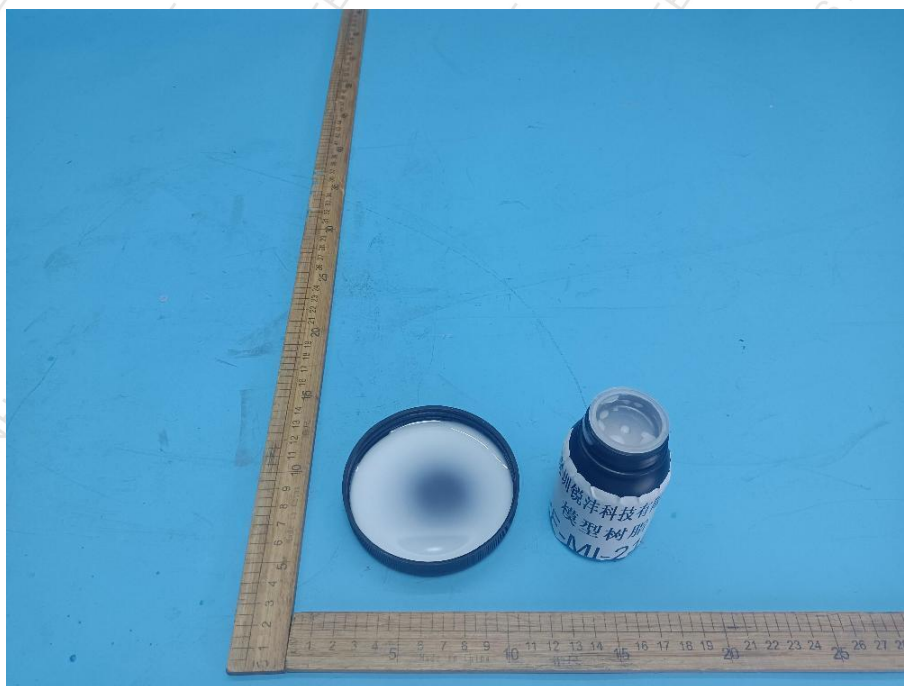
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The information above is believed to be accurate and represents the best information currently available to us.



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****End of Report****