

# Material Safety Data Sheet

File No.: EBO2108230-M544

Date of Issue: September 2, 2021

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## 1. Identification of Substance

### Product Details

**Product Name:** Phrozen Mud-Like Resin

**Product Use:** 3D PRINTING

**Product Model:** UV Resin

**Product Brand:**



**Manufacturer/Supplier By:** PHROZEN TECH CO., LTD.  
3F 287 NIU PU RD., Hsinchu City, 300 Taiwan  
Tel & Emergency Tel: +886-3-5400076  
Fax: +886-3-539-6591

## 2. Hazards Identification

### Classification of the substance or mixture

Classification according to Regulation  
(EC) No. 1272/2008: Serious eye damage (Category 2A), H319

### GHS Label elements, including precautionary statements

**Pictogram:**



**Signal word:** Warning

**Hazard statement(s):**

H319 Causes serious eye irritation.

**Precautionary statements:**

**General precautionary statement(s):**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

**Prevention precautionary statements:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

**Response precautionary statements:**

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

P337+P313 lenses. If present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Disposal precautionary statements:**

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

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## 3. Composition/Data on Components

COMPONENT	CAS No.	% By wt.
Acrylated aliphatic urethane	68987-79-1	50%-79%
4-acryloylmorpholine	5117-12-4	20%-45%
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	1%-5%

## 4. First aid Measures

<b>Eye Contact:</b>	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Seek medical advice / attention.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
<b>Inhalation:</b>	If inhaled: relocate to fresh air and keep at rest in a position comfortable for breathing. Get medical advice / attention if you feel unwell
<b>Ingestion:</b>	Rinse mouth. Seek medical attention.

## 5. Fire Fighting Measures

<b>Suitable extinguishing media:</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special hazards arising from the substance or mixture:</b>	No data available
<b>Advice for firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out. Evacuate personnel to safe areas.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Avoid breathing mist / vapors / spray. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash thoroughly after handling.
<b>Environmental precautions:</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleaning up:</b>	Local authorities should be advised if significant spillage cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

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Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

**Reference to other sections:** For disposal see section 13.

## 7. Handling and Storage

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Do not breathe mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash thoroughly after handling.

**Storage:** Keep container dry. Keep containers sealed until ready for use.

## 8. Exposure Controls and Personal Protection

**Engineering controls:** General industrial hygiene practice.

**Personal Protection**

**Eyes:** Wear safety glasses with side shields. Wear additional eye protection such as chemical goggles or face shield if splashing or spraying hazard exists. Have an eye wash station available.

**Body:** To prevent skin contact use coveralls, apron, boots, or lab coat.

**Hands:** Avoid skin contact by using chemically resistant gloves.

**Respiratory:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminate concentrations. Respiratory protection must be provided in accordance with current local regulations.

## 9. Physical and Chemical Properties

### General Information

**Form:** Liquid

**Color:** Multicolor

**Odor:** No obvious smell

**Boiling Point:** No data available

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<b>Flashpoint:</b>	About 100°C
<b>Density:</b>	No date available
<b>Viscosity:</b>	No date available
<b>Melting Point:</b>	No date available
<b>Vapor Pressure:</b>	No date available
<b>Vapor Density:</b>	No date available
<b>Solubility In Water:</b>	Insoluble in water
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	No date available
<b>pH:</b>	No date available
<b>Freezing Point:</b>	No date available
<b>Molecular Weight:</b>	Mixture, Not Applicable

## 10. Stability and Reactivity

<b>Chemical Stability:</b>	Stable
<b>Incompatible materials and conditions to avoid:</b>	None.
<b>Hazardous Polymerization:</b>	Is not known to occur.
<b>Hazardous decomposition:</b>	None identified.

## 11. Toxicological Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>Acute toxicity:</b>	No data available
<b>Skin corrosion/irritation:</b>	Causes skin irritation. May cause allergic skin reaction.
<b>Serious eye damage/eye irritation:</b>	Causes serious eye damage
<b>Respiratory or skin sensitization:</b>	Inhalation of vapors in high concentration may cause irritation of respiratory system
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity</b>	
<b>IARC:</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>Reproductive toxicity:</b>	No data available
<b>Specific target organ toxicity - single exposure:</b>	No data available
<b>Specific target organ toxicity - repeated exposure:</b>	No data available
<b>Aspiration hazard:</b>	No data available

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## 12. Ecological Information

**General notes:** Do not allow material to be released to the environment without proper governmental permits.

## 13. Disposal Considerations

**Product-Recommendation:** Consult state, local or national regulations to ensure proper disposal.

**Uncleaned packaging-Recommendation:** Disposal must be made according to official regulations.

## 14. Transport Information

<b>UN number</b>		
<b>ADR/RID: None</b>	<b>IMDG: None</b>	<b>IATA: None</b>
<b>UN proper shipping name</b>		
<b>ADR/RID: Not dangerous goods</b>		
<b>IMDG: Not dangerous goods</b>		
<b>IATA: Not dangerous goods</b>		
<b>Transport hazard class(es)</b>		
<b>ADR/RID: None</b>	<b>IMDG: None</b>	<b>IATA: None</b>
<b>Packaging group</b>		
<b>ADR/RID: None</b>	<b>IMDG: None</b>	<b>IATA: None</b>
<b>Environmental hazards</b>		
<b>ADR/RID: No</b>	<b>IMDG Marine pollutant: No</b>	<b>IATA: No</b>

## 15. Regulations

<b>Product related hazard information:</b>	Observe the general safety regulations when handling chemicals.
<b>National regulations:</b>	All components of this product are listed in the EU Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
<b>Information about limitation of use:</b>	For use only by technically qualified individuals.

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## 16. Other Information

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