



Safety Data Sheet for Chemical Products

SECTION 1. Identification of the substance/preparation and company

1.1 Product Name:	Water Washable 2.0 Photopolymer Resin
1.2 Main Application:	3D printing material
1.3 Applicant Name:	SHENZHEN ELEGOO TECHNOLOGY CO., LTD
1.4 Applicant Address:	101, No. 30, Dahe Industrial Zone, Guancheng Community, Guanhu Street, Longhua District, Shenzhen, China
1.5 Manufacturer Tel:	0755-21005141
1.6 Manufacturer Email:	INFO@ELEGOO.COM

SECTION 2. Hazards identifications

2.1 Hazard Class (GHS) :

Acute toxicity, (Category 4)	H302
Acute toxicity, Dermal (Category 5)	H313
Skin sensitization (Sub-category 1B)	H317
Serious eye damage,(Category 1)	H318
Serious eye damage/eye irritation (Category 2A)	H319
Harmful to aquatic life with long-lasting effects (Category 2)	H412

2.2 Pictograms:



2.3 Signal word:

Warning

2.4 Hazard description:

H302	Harmful if swallowed
H313	May be harmful in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

H319 Causes serious eye irritation
 H412 Harmful to aquatic life with long-lasting effects

2.5 Precautionary description:

P261 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash hand and face thoroughly after handling
 P271 Use only outdoors or in a well-ventilated area.
 P272 Infected work clothes shall not be taken out of the workplace.
 P273 Avoid the release into the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 + P265 Wash hands thoroughly after handling. Avoid contact with eyes

2.6 Accident Response:

P261 Do not
 P332 + P317 Get medical attention if skin irritation occurs.
 P333 + P317 Get medical attention if skin irritation or rash occurs.
 P302 + P352 If on skin: wash with plenty of soap and water.
 P362 + P364 Take off all contaminated clothing and wash before reuse.
 P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.
 P391 Collect spillage. Hazardous to the aquatic environment
 P305 + P354 + P338 If in eyes : rinse immediately with water for several minutes. Remove contact lenses, if present and easy to do, Continue rinsing.
 P318 If exposed or in doubt, get medical attention.

2.7 Safe Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

2.8 Waste Disposal

P501 Contents / container should be disposed of in accordance with local / regional / national / international regulations or (handed over to hazardous waste or special waste collection company for disposal).

2.9 Other hazards but not classified

This part provides applicable additional hazard information which does not affect the classification but may affect the overall hazard of the substance or mixture.

SECTION 3. Composition / information on ingredients

Ingredient(s) of the product: Mixture

Substance name	CAS NO.	Purity	Mixture	Concentration	Component proportion
Aliphatic polyurethane acrylic resin	68987-79-1	√	/	100%	21%

Acryloylmorpholine	5117-12-4	√	/	100%	5%
Ethoxylated trimethylolpropane triacrylate	28961-43-5	√	/	100%	66%
Ethyl 2,4,6-trimethylbenzoylphenylphosphonate	84434-11-7	√	/	100%	6%
Carbon black	1333-86-4	√	/	100%	1%
Titanium(IV) oxide	13463-67-7	√	/	100%	1%

SECTION 4. First aid measures

General advice:

1. Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
2. Take off contaminated clothing.

4.1 Following inhalation:

Keep the patient calm, move to fresh air, and seek medical attention. Corticosteroid aerosol may be inhaled depending on the symptoms.

4.2 Following skin contact:

Take off contaminated clothing immediately. Immediately rinse thoroughly with plenty of water, apply a sterile bandage, and consult a dermatologist.

4.3 Following eye contact:

Turn the eyelids upside down, immediately rinse with running water for more than 15 minutes, and consult an ophthalmologist. If the eyes are injured, seek medical attention immediately.

4.4 Following ingestion:

Rinse the mouth immediately, then drink 200-300 ml of water, and seek medical attention. Call a doctor or poison control center immediately.

4.5 Following Physician's precautions:

Symptoms: The most important known symptoms and effects are described in Section 2 and /or Section 11.

Hazards: No hazard when used as intended and handled properly.

Treatment: Symptomatic treatment (remove dirt, pay attention to vital signs), no specific antidote.

SECTION 5. Firefighting measures

5.1 Hazardous Characteristics:

No fire hazard.

5.2 Extinguishing Media:

Dry powder, chemical foam, carbon dioxide, water mist

5.3 Firefighting procedures:

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fires at a safe distance and with adequate protection.

Take all precautions to avoid mixing with combustibles.

5.4 Hazardous combustion products:

Carbon monoxide, organic volatiles

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective measures (SEE SECTION 8).

6.2 Environmental precautions:

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Cleaning method:

Remove by liquid absorbing material (e.g. kieselguhr) .

Adhered or collected material should be promptly disposed of. Disposal of discarded waste/pollutants refers to SECTION 13.

SECTION 7. Safe handling and storage

7.1 Handling Notes:

Keep indoor ventilation or local exhaust device.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Use only outdoors or in a well-ventilated area.

7.2 Storage Notes:

Keep away from food and animal feed or do not store together with incompatible material (see section 10.2).

Further information on storage conditions: Store tightly closed in a dry, cool place. Keep containers dry as the product absorbs moisture from the air. Protect from heat. Protect from the effects of light. Stabilizers are effective only in the presence of oxygen. Ensure adequate inhibitor and dissolved oxygen levels.

Protect from temperatures below: 0°C

Product properties may change when stored below the specified temperature for a period of time.

Protect from temperatures above: 40°C

Product properties may change when stored above the specified temperature for a period of time.

SECTION 8. Exposure controls / personal protection

8.1 Occupational Exposure Limit:


No relevant data.

8.2 Engineering Control:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Ensure that eyewash stations and safety showers are proximal to the work-station location.

8.3 Personal Protection:

General requirement:	
Respiratory:	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Eyes:	Wear protective goggle (Conform to EC EN 166 or US-NIOSH).
Hands:	Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

8.4 Sanitary Measure:

Forbid smoking, eating and drinking in working places. Washing hands after handling products.

SECTION 9. Physical and chemical properties

Appearance and Color	Ceramic Grey flowing liquid
Odour	Slight odor
PH value	6.8-7.2
Flammability	Noncombustible
Relative density (g/cm ³)	1.05g/cm ³ (25°C)
Relative vapor density (g/L) (air = 1)	> 1

Vapor pressure(MPa)	<0.01mmHg
Octanol/water partition coefficient	No Data
Viscosity (mPa·s)	130-180 (mPa·s) (25℃)
Flash point (°C,Closed cup)	>250
Boiling point (°C)	140
Melting/freezing point (°C)	-60
Evaporation rate (kg/s)	No Data
UEL% (V/V)	Not Applicable
LEL% (V/V)	Not Applicable
Auto-ignition temperature(°C)	>450
Decomposition temperature(°C)	>250
Solubility	Microsoluble in water, soluble in benzene, alcohol, ether and other organic solvents

SECTION 10. Stability and reactivity

10.1 Stability:

Stable under recommended storage and handling conditions (See section 7).

10.2 Material for avoiding:

Strong oxide, acid and alkali, Strong reducing agent.

10.3 Contact conditions for avoiding:

Humidity, sunlight, high temperature.

10.4 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. Toxicological information

11.1 Acute toxicity:

Although no data of known appropriate health effects on humans or animals exist, this substance is expected to be mildly injurious in ingestion.

11.2 Skin corrosion/irritation:

Causes skin irritation.

11.3 Serious eye damage/irritation:

Exposure to products can cause severe eye irritation, with symptoms including severe pain,

burning, tearing or swelling.

11.5 Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

11.6 Carcinogenicity:

Based on available data, the classification criteria are not met.

11.7 Reproductive toxicity:

Based on available data, the classification criteria are not met.

11.8 STOT-single exposure:

Based on available data, the classification criteria are not met.

11.9 STOT-repeated exposure:

Based on available data, the classification criteria are not met.

11.10 Aspiration hazard:

Low volatility of the product under normal conditions of use. There are no symptoms that are harmful to health. Gas or vapor may be produced when the temperature is raised during the process. Causes irritation to the respiratory tract. Symptoms of respiratory irritation may include coughing, mucus secretion, and shortness of breath.

SECTION 12. Ecological information

12.1 Toxicity:

Harmful to aquatic life. Toxic to aquatic life with long lasting effects. The product has not been tested. This statement is based on the properties of the individual components.

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulative potential:

No data available.

12.4 Mobility in soil

No data available.

12.5 Other Dangers:

PBT and vPVB evaluation results: Not applicable

SECTION 13. Disposal considerations

13.1 Handling method for waste:

Handling waste according to the local regulations. Contact specific waste disposal company

or companies recommended by local laws.

13.2 Handling method for uncleaned packaging

Contaminated packaging:

Dispose in accordance with national, state and local regulations.

Empty contaminated packaging as much as possible and dispose of in the same manner as the substance/product.

SECTION 14. Transport information

This is not classified as a hazardous/dangerous material under IATA, IMDG, DOT regulations.

Packaging Label	None
UN ID	UN 3082
Technical name	None
Transport hazard class	None
Subsidiary hazard class	None
Packing group	None
Special Provisions	None

More information

When the product is packaged in a volume not exceeding 5L, it can be transported as ordinary cargo without being subject to other dangerous goods transportation related requirements when it meets the requirements of Special Provision 375 in ADR, RID, ADN, 2.10.2.7 in IMDG, A197 in IATA, Special Provision 99 (2) in TDG, Article 171.4 (c) (2) in 49 CFR and Special Provision 375 in Appendix B of China's "Dangerous Goods Road Transport Rules Part 3: Index of Product Name and Transport Requirements" (JT/T617.3).

SECTION 15. Regulatory information

The product is subject to the provisions of the Regulations on the Safety Administration of Hazardous Chemicals. For the classification of dangerous goods, please refer to Section 14 of this SDS.

Other Regulations

If the regulatory information applicable to this product is not provided in other parts of the safety data sheet, it will be described in this section.

Registration status:

IECSC, CN

All substances are listed in the IECSC.

The safety data sheet is prepared in accordance with the General Rules for Classification and Hazard Communication of Chemicals.

The product is subject to the Drug Administration Law of the People's Republic of China (if the product is used for drugs), the Regulations on the Administration of Feed and Feed Additives (if the product is used for feed) and the Food Safety Law of the People's Republic of China (if the product is used for food)

SECTION 16. Other information

Any other use should be discussed with the manufacturer.

The information in this MSDS was obtained from sources believed to be reliable. However, we make no warranties, express or implied, regarding the data provided. The conditions and methods of handling, storage, use, or disposal of this product are beyond our control and may be beyond our knowledge. Under no circumstances shall we be liable for loss, damage and related costs resulting from improper handling, storage, use, or disposal of this chemical product. This MSDS is prepared for this product and should only be applied to this product.

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