



# 化学品安全技术说明书

## Safety Data Sheet for Chemical Products

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YONGCHANGHE Safety Data Sheet Prepared According to GB/T 16483

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### Part One: Chemical Name and Manufacturer Information

1.1 Chemical Name: DLP/SLA/LCD 3D Printer Photosensitive Resin

1.2 Chemical Model:Thermochromic Resin

1.3 Main Use: 3D Printing

1.4 Manufacturer Name: SHENZHEN YONGCHANGHE CO., Ltd

1.5 Manufacturer Address: Unit 1001, HuaiDe International Building, No. 73 Guangshen Road, HuaiDe Community, Fuyong Street, Baoan District, Shenzhen City

1.6 Manufacturer Phone: 0755-27889946

1.7 Manufacturer Email: support@aceaddity.com

1.8 Emergency Phone: +86 13664977286

### Part Two: Hazard Information

2.1Hazard Categories (GHS):

Categorized according to the "Global Harmonized System of Classification and Labeling of Chemicals" (Sections 2-4), hazard categories are as follows:

Skin Irritation: Category 2

Skin Sensitizer: Category 1

Chronic Hazard to Aquatic Environment: Category 2

Serious Eye Damage/Eye Irritation: Category 1

Specific Target Organ Toxicity - Single Exposure: Category 3 Respiratory Tract Irritation

2.2 Pictograms:



2.3 Warning Phrases:

Warning

2.4 Hazard Statements:

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H411 - Toxic to aquatic life with long-lasting effects

2.5 Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands thoroughly after handling.

P265 - Avoid contact with eyes.

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

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

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

P273 - Avoid release to the environment.

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

P264 + P265 - Wash hands thoroughly after handling. Do not touch eyes.

2.6 Response to Accidents:

P332 + P317 - If skin irritation occurs, get medical advice.

P333 + P317 - If skin irritation or a rash occurs, get medical advice.

P302 + P352 - If on skin: Wash with plenty of soap and water.

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

P304 + P340 - If inhaled, move person to fresh air and keep comfortable for breathing.

P391 - Collect spillage.

P305 + P354 + P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

## 2.7 Safe Storage:

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

P405 - Store locked up.

## 2.8 Disposal:

P501 - Dispose of contents/container according to local/regional/national/international regulations.

## 2.8 Other Hazards Not Otherwise Classified:

This section provides additional hazard information that does not affect classification but may impact the overall hazard of the substance or mixture.

### Part Three: Composition Information

Chemical Nature: Mixture

Hazardous Components:

Aliphatic polyurethane acrylic resin

Content (W/W): $\geq 35\%$ % -	Skin Sensitizer: Category 1
< 50%	Specific Target Organ Toxicity - Single
CAS No.: 68987-79-1	Exposure: Category 3
	Serious Eye Damage/Eye Irritation:
	Category 1
	Skin Corrosion/Irritation: Category 2

PO2-NPGDA Propoxylated Neopentyl Glycol Diacrylate

Content (W/W): $\geq 25\%$ - <	Skin Sensitizer: Category 1B
40%	Chronic Hazard to Aquatic
CAS No.: 84170-74-1	Environment: Category 2

Trimethylolpropane Trimethacrylate

Content (W/W): $\geq 10\%$ - <	Skin Sensitizer: Category 1B
25%	Skin Corrosion/Irritation:
CAS No.: 66492-51-1	Category 2
	Chronic Hazard to Aquatic
	Environment: Category 2

2,4,6-Tris(dimethylaminomethyl)phenol ethoxylate ester

Content (W/W): > 0% - ≤ 10%      Skin Sensitizer: Category 1B  
Chronic Hazard to Aquatic Environment: Category 2  
CAS No.: 84434-11-7

#### Part Four: First Aid Measures

General Advice : 1. First aid measures are generally necessary; please provide this SDS to the attending physician at the scene. 2. Remove contaminated clothing.

##### 4.1 Inhalation:

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

##### 4.2 Skin Contact:

Remove contaminated clothing immediately. Wash thoroughly with plenty of water, apply antiseptic bandages, and consult a dermatologist.

##### 4.3 Eye Contact:

Turn eyelids and immediately rinse with flowing water for at least 15 minutes. Consult an ophthalmologist. Seek medical treatment immediately if eyes are injured.

##### 4.4 Ingestion:

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

##### 4.5 Physician Notes

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

Hazard: No hazards when used as intended and under proper conditions.

Treatment: Symptomatic treatment (remove contaminants, monitor vital signs), no specific antidote.

#### Part Five: Firefighting Measures

##### 5.1 Hazard Properties:

No fire hazards

##### 5.3 Types of Extinguishing Agents:

Dry powder, chemical foam, carbon dioxide, water mist.

##### 5.3 Firefighting Safety Measures:

Wear a respiratory mask (compliant with MSHA/NIOSH or equivalent) and full protective clothing when extinguishing fires. Extinguish fires from a safe distance and with adequate protection. Take all precautions to prevent mixing with flammable materials.

#### 5.4 Harmful Combustion Products:

Carbon monoxide, organic volatiles.

#### Part Six: Leak Emergency Response

##### 6.1 Personal Precautions:

Wear appropriate protective measures, see (Part Eight).

##### 6.2 Environmental Precautions:

Do not let the product come into contact with sewage systems or any water source. If it enters water sources or sewage systems, notify the relevant authorities. Do not allow it to enter drains/waterways or groundwater.

##### 6.3 Cleanup Methods:

Collect with liquid adsorbent materials (e.g., diatomaceous earth, sand), store adherents or collections in suitable airtight containers, refer to Part Thirteen for disposal of waste/contaminated materials, clean with a detergent, and avoid using solvents.

#### Part Seven: Handling, Storage, and Disposal

##### 7.1 Handling Precautions:

Ensure good ventilation/exhaust systems in the workplace. Keep away from heat sources/sparks/open flames/hot surfaces. No smoking. Use only outdoors or in well-ventilated areas.

##### 7.2 Storage Precautions:

Isolate from food and animal feed or do not store with incompatible substances (see Section 10.2). Details on storage conditions: Containers should be tightly sealed and stored in a dry, cool place. Containers should be kept dry due to the product's absorption of moisture from the air. Protect from heat and light. Stabilizers are effective only in the presence of oxygen. Ensure adequate inhibitor and dissolved oxygen levels. Avoid temperatures below 0° C, as prolonged storage below the specified temperature may change product performance. Avoid temperatures above 40° C, as prolonged storage above the specified temperature may change product performance.

#### Part Eight: Exposure Control and Personal Protective Measures


##### 8.1 Monitoring Methods (Parameters) :

No relevant data.

##### 8.2 Engineering Controls:

Keep substances sealed during the production process and maintain indoor ventilation. Use local exhaust and ventilation as reasonably practicable. If ventilation does not keep particle and solvent vapor concentrations below occupational exposure limits, wear appropriate respirators. Ensure eyewash and shower facilities are available near the workplace.

### 8.3 Personal Protective Measures:

General Requirements:	
Respiratory Protection:	Use a full-face mask-type multi-function gas mask (US) or an AXBEK type (EN 14387) gas mask canister when vapor concentration exceeds occupational exposure limits or symptoms such as irritation occur.
Eye Protection:	Wear chemical goggles (compliant with EU EN 166 or US NIOSH standards).
Hand Protection:	Wear chemical-resistant gloves (e.g., nitrile rubber gloves). Choose gloves tested to EU EN 374, US US F739, or AS/NZS 2161.1 standards.

### 8.4 Hygiene Measures

No smoking or eating in the work area. Wash hands after handling or using the product.

### Part Nine: Physical and Chemical Properties

Appearance, Nature, and Color	Gray, flowing liquid
Odor	Slight odor
pH Value	6.8-7.2
Flammability	Non-flammable
Relative Density (g/cm <sup>3</sup> )	1.05g/cm <sup>3</sup> (25°C)
Relative Vapor Density (g/L)	>1
Vapor Pressure (MPa)	<0.01mmHg
Octanol/Water Partition Coefficient	No data
Viscosity (mPa · s)	350~650 (mPa · s) (25°C)

Flash Point ( °C , Closed Cup )	>250
Boiling Point ( °C )	140
Melting Point/Solidification Point ( °C )	-60
Evaporation Rate (kg/s)	No Data
Explosion Limits% (V/V)	Not applicable
Explosion Limits% (V/V)	Not applicable
Autoignition Temperature ( °C )	>450
Decomposition Temperature ( °C )	>250
Solubility	Slightly soluble in water, soluble in benzene, alcohols, ethers, and other organic solvents.

## Part Ten: Stability and Reactivity

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### 10.1 Stability:

Stable under specified storage and handling conditions (see Part Seven).

### 10.2 Substances to Avoid:

Strong oxidizers, acids, bases, strong reducing agents.

### 10.3 Conditions to Avoid:

Moisture, high temperature, sunlight.

### 10.4 Hazardous Decomposition Products:

Under normal storage and use conditions, no hazardous decomposition products are expected.

## Part Eleven: Toxicology Information

### 11.1 Acute Toxicity:

While no data exists indicating appropriate harm to human or animal health, this substance

is expected to cause mild ingestion injury.

#### 11.2 Skin Corrosion/Irritation:

Causes skin irritation.

#### 11.3 Serious Eye Damage/Eye Irritation:

This product causes serious eye irritation, with symptoms including severe pain, burning sensation, tearing, or swelling.

#### 11.4 Respiratory or Skin Sensitization:

May cause skin sensitization.

#### 11.5 Germ Cell Mutagenicity:

According to available data, it does not meet classification criteria.

#### 11.6 Carcinogenicity:

According to available data, it does not meet classification criteria.

#### 11.7 Reproductive Toxicity:

According to available data, it does not meet classification criteria.

#### 11.8 Specific Target Organ Toxicity - Single Exposure:

According to available data, it does not meet classification criteria.

#### 11.9 Specific Target Organ Toxicity - Repeated Exposure:

According to available data, it does not meet classification criteria.

#### 11.10 Hazardous Inhalation Substance:

Due to the low volatility of this product under normal use conditions, significant symptoms harmful to health are not expected. However, when the temperature is raised during processing, gas or vapor may be produced, irritating the respiratory tract. Symptoms of respiratory tract irritation may include coughing, mucus secretion, and shortness of breath.

### Part Twelve: Ecological Information

#### 12.1 Toxicity:

##### Aquatic Toxicity Assessment:

Harmful to aquatic organisms. Toxic to aquatic organisms and has long-term and persistent effects. The product has not been tested. This statement is based on the nature of individual components.

#### 12.2 Persistence and Degradability:

No relevant data.

#### 12.3 Bioaccumulative Potential:



No relevant data.

#### 12.4 Mobility in Soil:

No relevant data.

#### 12.5 Other Hazards:

PBT and vPvB assessment results: Not applicable.

### Part Thirteen: Disposal Considerations

#### 13.1 Waste Disposal Methods:

Comply with national, state, and local regulations. Contact specialized companies for recycling.

#### 13.2 Handling of Contaminated Packaging:

Comply with national, state, and local regulations. Empty contaminated packaging as much as possible and dispose of it in the same way as the substance/product.

### Part Fourteen: Transport Information

According to IATA, IDMG, DOT regulations, this substance is not classified as hazardous dangerous goods.

Packaging Label	None
UN Number	UN 3082
Proper Shipping Name	None
Primary Hazard Class	None
Secondary Hazard Class	None
Packing Group	None

#### More Information

When this product is packaged in containers not exceeding 5L in capacity and meets the special requirements of ADR, RID, ADN Special Regulation 375, IMDG 2.10.2.7, IATA A197, TDG Special Regulation 99(2), and 49 CFR § 171.4(c)(2), as well as China's Dangerous Goods Road Transport Regulations Part Three: Index of Product Names and Transport Requirements (JT/T617.3), it may be transported as general cargo, exempt from other hazardous goods transportation requirements.

#### Part Fifteen: Regulatory Information

This product must comply with the Regulations on the Safety Management of Hazardous Chemicals. For the classification of hazardous goods, refer to Section 14 of this SDS.

##### Other Regulations:

If other sections of this SDS do not provide applicable regulatory information for this product, it will be described in this section.

##### Registration Status:

IECSC, CN. All substances are listed on the IECSC. This safety data sheet is prepared in accordance with the Regulations on the Classification and Labelling of Chemicals. This product must comply with the Drug Administration Law of the People's Republic of China (if applied to drugs), the Regulations on the Management of Feed and Feed Additives (if applied to feed), and the Food Safety Law of the People's Republic of China (if applied to food).

#### Part Sixteen: Other Information

For any other purposes, consult with the manufacturer.

The information in this Chemical Safety Data Sheet is obtained from sources we believe to be reliable. However, we make no express or implied warranties as to the accuracy of the data provided. The handling, storage, use, or disposal of this product is beyond our control and may be beyond our knowledge. In no event shall we be liable for any loss, damage, or expense resulting from improper handling, storage, use, or disposal of this chemical. This Chemical Safety Data Sheet is written for this product and can only be applied to this product.

\*\*\*\*\*End of Report\*\*\*\*\*