



## Material Safety Data Sheet

### Section 1 Chemicals and corporate identity

**Chinese name of chemical:** 紫外光固化阻焊油墨 UVS-1000H16

**English name of chemical:** UV Solder Resist Ink **UVS-1000H16**

**Enterprise name:** SHENZHEN RONGDA PHOTSENSITIVE SCIENCE & TECHNOLOGY CO., LTD.

**Address:** ROOM301, FLOOR 1-3, NO. 71-5, XINTIAN ROAD, XINTIAN COMMUNITY, FUHAI STREET, BAO'AN DISTRICT, SHENZHEN, GUNAGDONG

**Zip code:** 518000

**Telephone number:** 0755-27312760

**Fax number:** 0755-27312759

**Emergency call:** 0755-27312760

**E-mail:** rdjs@szrd.com

**Product recommendation and restricted use:** It is used to make the solder resist layer of circuit board, which plays the role of insulation, anti welding and protection.

**Effective date:** 2022.5.1

### Section 2 Hazards overviews

#### Emergency overviews:

**Green** paste with aromatic smell. This product is not inflammable or dangerous and has no special danger. Swallowing and entering the respiratory tract can cause asphyxia and can be fatal.

#### GHS Hazard category:

**Physical hazards:** This product has no physical hazard and is not inflammable or dangerous.

**Health hazards:** not listed.

**Environmental hazards:** not listed.

#### Label elements:



Pictogram:



Warning words: warning

**Hazard Description:** swallowing and entering the respiratory tract can cause asphyxia and may be fatal.

**Precautionary statement:**

**Preventive measure:** Keep away from spark, fire source, high temperature and other sources that are easy to cause combustion.

Avoid contact during pregnancy and lactation.

Do not eat, drink or smoke in the operation place.

Protective gloves, masks and goggles shall be used during operation.

After operation, the contact parts of the body shall be thoroughly cleaned.

**Accident response:** If ingested, do not induce vomiting and seek medical attention immediately.

Inhale, leave the pollution source and go to a place with fresh air. If you still feel unwell, get medical attention immediately.

In case of eye contact, open the eyelids immediately, wash the eyes with plenty of water, and seek medical advice immediately if you still feel unwell.

In case of skin contact, wash with soapy water and clean it.

In case of fire, use chemical dry powder, carbon dioxide and sand to put out the fire.

**Safe storage:** store in a cool and ventilated place. Keep the container closed.

**Waste disposal:** please refer to local or national regulations for waste disposal.

**Physical and chemical hazards:** This product is not inflammable or dangerous and has no special danger.

**Health hazards:** Swallowing and entering the respiratory tract can cause asphyxia and can be fatal.



Environmental hazards: Do not throw waste

### Section 3 Composition/Composition information

Mixture <input checked="" type="checkbox"/> Pure substance <input type="checkbox"/>		
Main agent composition	Content range (%)	CAS NO
EPOXY acrylate	30~50	71281-65-7
2-Ethylanthraquinone	1-3	84-51-5
2-Hydroxyethyl methacrylate	1-5	947-19-3
Trimethylolpropane triacrylate	10-15	15625-89-5
Talc powder	20-35	14807-96-6
HEMA	2~4	627-93-0
Silicon dioxide	0.1~2	14808-60-7
Bentonite	0.5~2	1302-78-9
Phthalocyanine green G	0.1~2	1328-53-6
Dimethylpolysiloxane	0.5~2	63148-62-9
Amino resin	1-3	----

### Section 4 First aid measures

It refers to the first-aid measures to be taken when the on-site operators are accidentally injured by chemicals.

**Ingestion:** Do not induce vomiting and seek medical attention immediately.

**Inhalation:** Leave the pollution source and go to a place with fresh air. If you still feel unwell, get medical attention immediately.

**Eye contact:** Immediately open your eyelids and rinse your eyes with plenty of water. If you still feel unwell, get medical attention immediately.

**Skin contact:** Wash with water and clean.

### Section 5 Fire fighting measures

**Fire extinguishing agent:** Extinguish the fire with chemical dry powder, carbon dioxide and sand.

**Special risk:** This product is not inflammable or dangerous and has no special danger.

**Special fire extinguishing methods:** Cut off the combustion source and put out the fire from the upper air outlet with chemical dry powder, carbon dioxide and sand.

**Precautions and protective measures for fire extinguishing:** Firefighters shall wear



self-contained breathing apparatus and full body protective clothing. Evacuate personnel to the upwind direction of the fire site.

## Section 6 Leakage emergency treatment

**Protective measures, protective equipment and emergency disposal procedures for operators:** Cleaning personnel must wear protective gloves and protective equipment to avoid skin contamination.

**Environmental protection measures:** Contain the leakage to avoid polluting the environment. Prevent leakage from entering sewers, surface water, groundwater, rivers and other water bodies.

**Storage and cleaning methods of leaked chemicals and treatment materials used:**

Minor leakage: Absorb with waste cloth and recycle into closed container.

Massive leakage: After the earth mound is used to build a dike to prevent diffusion, waste cloth is used to absorb and recycle it into a closed container.

## Section 7 Handling and storage

**Precautions for operation:** Place the jar carefully to avoid cracking or leakage caused by violent impact.

Keep away from spark, fire source, high temperature and other sources that are easy to cause combustion.

Avoid contact during pregnancy and lactation.

Please do not eat, drink or smoke in the operation place.

Protective gloves, masks and goggles shall be used during operation.

After operation, the contact parts of the body shall be thoroughly cleaned.

**Storage precautions:** Store in an environment with a temperature of 0~25 °C and avoid sunlight. Cover when not in use. Keep away from sources of ignition.

## Section 8 Exposure control/personal protection

**Maximum allowable concentration:** None.

**Monitoring method:** None.



**Engineering control:** The workplace shall be equipped with comprehensive ventilation devices.

**Personal protective equipment:**

Hand protection: wear protective gloves.

Mouth protection: wear a protective mask.

Eye protection: wear protective glasses.

Skin and body protection: wear work clothes and avoid direct contact.

**General protective and sanitary measures:** Smoking, drinking and eating are prohibited at the operation site. Wash hands and gargle after operation.

**Section 9 Physical and chemical properties**

Appearance and properties: <b>Green</b> paste	Odor: Aromatic odor
PH numerical value: Not applicable	Flash point (°C) :76°C (Flash cup closing point)
Boiling point (°C) : 210°C	Saturated vapor pressure ( kPa ) : 0.28(38°C)
Upper explosion limit% (V/V) : 9.0	Relative density (water=1) : 1.4±0.1
Lower explosion limit% (V/V) : 1.0	Comparative value of octanol/water partition coefficient: No data
Relative vapor density (air=1) : 5±0.3	Decomposition temperature: 450°C
Solubility: ≤10wt%(Solubility in water)	Flammability: Not flammable

**Section 10 Stability and reactivity**

**Stability:** The product is stable when stored and used at normal ambient temperature.

**Dangerous reaction:** This product is not inflammable or dangerous and has no special danger.

**Conditions to avoid contact:** Static electricity, discharge, sunlight, heating, open fire.

**Substances to avoid contact:** Strong oxides, peroxides, strong acids, alkali metals.

**Decomposition products:** Carbon monoxide, carbon dioxide, etc.

**Section 11 Toxicological information**

**Acute toxicity:** None.



**Subacute and chronic toxicity:** Working in an airless and closed environment for a long time will be harmful to health.

**Thrill:** Slight irritation to eyes and respiratory mucosa.

**Sensitization:** Prolonged direct contact may cause skin irritation.

**Carcinogenicity:** None.

**Teratogenicity:** None.

**Mutagenicity:** None.

**Reproductive toxicity:** None.

**Other:** None.

## Section 12 Ecological information

**Ecotoxicity:** None.

**Persistence and degradability:** None.

**Bioaccumulation or bioaccumulation:** None.

**Other harmful effects:** A large amount of overflow will cause environmental pollution.

## Section 13 Waste disposal

**Waste property:** Hazardous waste.

**Waste Disposal Method:** A qualified waste disposal unit shall handle the waste or consult the environmental protection department of the local government.

**Contaminated containers or packages:** A qualified waste disposal unit shall handle the waste or consult the environmental protection department of the local government.

**Discard precautions:** Do not pollute water, air and soil.

## Section 14 Transportation information

**UN dangerous goods number (UN NO) :** This product is not inflammable or dangerous.

**China 《List of dangerous goods》 :** Road traffic is not regulated.

**Ocean shipping (International Maritime Dangerous Goods IMDG) :** Shipping is unregulated.



**Air transport (International Air Transport Association IATA) :** Air transport is unregulated.

**Packing category:** Not applicable.

**Package identification:** Not applicable.

**Packaging method:** Plastic tank.

**Precautions for transportation:** Prevent sunlight. Before transportation, confirm that the container is not damaged. During loading, avoid container damage, overturning and falling. Prevent goods from falling apart during transportation.

## Section 15 Legal information

Law of the people's Republic of China on the prevention and control of occupational diseases:

Classification of occupational hazard factors: Not included.

Possible occupational diseases: Not included.

Catalogue of occupational diseases: Not included.

Regulations on safety management of hazardous chemicals:

Catalogue of hazardous chemicals: Not included.

《Identification of major hazard installations of hazardous chemicals》: It is not a flammable liquid.

Regulations on labor protection in workplaces where drugs are used:

List of highly toxic substances: Not included.

Environmental management measures for new chemical substances:

List of existing chemical substances in China: Not included.

## Section 16 Other information

**Reference:** 《Compilation of regulations and standards for the registration and management of hazardous chemicals》、《Regulations and standards for hazardous chemicals》 etc.

**Filling Department:** Technology development center.



深圳市容大感光科技股份有限公司

SHENZHEN RONGDA PHOTSENSITIVE SCIENCE & TECHNOLOGY CO., LTD.  
<http://www.szrd.com>

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**Statement:** This document is only for the user's reference, and the user will judge the rationality of relevant information according to the purpose of use. The user's adoption of the precautions mentioned above will help to avoid possible harm to life safety and property when operating and using the product.