

# MATERIAL SAFETY DATA SHEET

## UV COATING

### 1. Product identification

<b>Product Name</b>	UV Coating
<b>Manufacturer</b>	Signs Full Joint Tech Co. LTD
<b>Address</b>	2709 Room, Soaring Building, ABP, Fengtai District, Beijing, China Tel.: 0086 – (10) 57170106; Fax: 0086 – (10) 57170106

### 2. Composition / Information on Ingredients

Ingredient	CAS No	Weight %
Thermoplastic acrylic resin	Trade secret	5 - 15
Ethyl acetate	141-78-6	15 – 25
Buthyl acetate	123-86-4	20 – 30
2-Methyl-1-propanol	78-83-1	50 – 80

Attention: this universal UV Coating is non-hazardous formulation and does not contain any dangerous substances.

### 3. Hazards identification

#### Effects of a single overexposure

<b>Ingestion:</b>	No evidence of harmful effects from available information.
<b>Skin absorption:</b>	No evidence of harmful effects from available information.
<b>Inhalation:</b>	Trace component and residual monomer vapors may be irritating to the eyes, mucous membrane, respiratory tract and may produce symptoms of headache, nausea in poorly ventilated areas.
<b>Skin contact:</b>	Prolonged contact may cause transient redness of the skin.
<b>Eye contact:</b>	Direct contact may cause eye irritation.

#### Effects of a repeated overexposure

No evidence of harmful effects from available information.

#### Medical conditions aggravates by overexposure

Knowledge of the available toxicology information and of the physical and chemical properties of the matter suggests that overexposure is unlikely to aggravate existing medial conditions.

#### Other effects of overexposure

No evidence of harmful effects from available information.

## 4. First Aid Measures

<b>Swallowing:</b>	No harmful effects expected.
<b>Inhalation:</b>	No emergency care anticipated.
<b>Skin contact:</b>	Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
<b>Eye contact:</b>	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses after initial 1 – 2 minutes and continue flushing for several additional minutes. If effects last longer, consult physician, preferably an ophthalmologist.
<b>Notes to physician:</b>	Toxicology studies have shown this or similar material to be very low acute toxicity. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patients.

## 5. Fire – fighting Measures

#### Extinguishing Media

Use dry chemical, foam, carbon dioxide or dry sand to extinguish fire.

#### Special Fire Fighting Procedure

None.

#### Protection of Firefighters

Wear positive – pressure self – contained breathing apparatus and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves).

If protective equipment is not available or not used, fight fire from a protected location or a safe distance.

#### Unusual Fire and Explosion Hazards

Product will not burn but may spatter if temperature exceeds boiling point of water. Dried solids can burn giving off oxides of carbon.

## 6. Accidental Release Measures

#### Personal and Environmental Precautions

If material is released or spilled, restrict the area.

Major spills should be collected for disposals. Minor spills may be flushed to sewer if

permitted by national, state and local regulations.

## 7. Handling and Storage

### Storage temperature

≤40°C

### Shelf life

One year

### Special sensitivity

No available information.

### Handling and Storage

Use under ventilated conditions. For personal protection, wash thoroughly after handling the product. Wash hands before eating, smoking or using toilet facilities.

### Precautions

Avoid eye and skin contact. Keep container closed when not being used.

## 8. Exposure Controls / Personal Protection

### Exposure Limits

None known.

### Eye Protection

Wear splash goggles where spill or splashing may occur.

### Skin Protection

Not required.

### Respiratory Protection and Ventilation

Wear approved NIOSH respirator if exposure to mist or vapors exceeds applicable PEL/TLV limits. Use in accordance with manufacturer's use limitations and OSHA regulations.

## 9. Physical and Chemical Properties

**Appearance/Odor:** Liquid with variable color and odorless.

<b>Boiling Point, °C</b>	80 °C	<b>Electrical conductivity</b>	3 – 7 ms/cm
<b>Freezing Point, °C</b>	Not applicable	<b>Specific Gravity</b>	1 – 1.2
<b>Flash Point, °C</b>	25 °C	<b>Melting Point</b>	-20°C; <b>PH:</b> 5.0-10.0
<b>Viscosity</b>	1 – 5	<b>Surface tension</b>	26 – 35 mN/m

## 10. Stability and Reactivity

<b>Stability:</b>	Stable at ambient temperature and under normal conditions of use.
<b>Conditions to avoid:</b>	May explode or ignite on heating.
<b>Materials to avoid:</b>	Strong oxidizing agents.
<b>Incompatibility:</b>	No available information.
<b>Hazardous decomposition products:</b>	On combustion or on thermal decomposition (pyrolysis) releasing: carbon oxides (CO) and carbon dioxides (CO <sub>2</sub> )

## 11. Toxicological Information

<b>Health Effects:</b>	No available information.
<b>Inhalation:</b>	No available information.
<b>Skin Contact:</b>	No available information.
<b>Eye Contact:</b>	No available information.
<b>Ingestion:</b>	No available information.
<b>Further Information:</b>	Above information is about the ink. The ink will be contained in the fibrous reservoir of a small capacity marker which will limit considerably the exposure possibilities for the user.

## 12. Ecological Information

No available information.

## 13. Disposal Considerations

### Waste Disposal Method

Dispose of all waste materials in accordance with all applicable federal, state and local regulations for the disposal of aqueous wastes. Do not flush liquid into public sewer or water systems.

### NOTE

The user's attention is drawn to the possible existence of national or local regulations regarding disposal.

## 14. Transport Information

Any transportation's practice must be in compliance with local, state or federal laws and regulations. Not classified as hazardous under transport regulations. It would be advisable to check validity with your commercial agency.

## 15. Regulatory Information

<b>OSHA Status:</b>	Not applicable.
<b>TSCA Status:</b>	Not applicable.
<b>CERCLA Reportable Quantity:</b>	Not applicable.
<b>SARA Title III:</b>	Not applicable.
<b>Section 302 Extremely Hazardous Substances:</b>	Not applicable.
<b>Section 311/312 Hazard Categories:</b>	Not applicable.
<b>Section 313 Toxic Chemicals:</b>	Not applicable.
<b>RCRA Status:</b>	Not applicable.
<b>State Regulatory Information:</b>	Not applicable.

## 16. Other Information

The information herein is given in good faith, but no warranty express or implied, is made. This information is credible, but that does not mean all-inclusive, and only as a reference or guidance. As for the accuracy or completeness of the information, we do not make any guarantees either explicitly or implicitly. Take the need for security, compliance with local laws and regulations, the responsibility of the user to determine the suitability of this information. Please consult the relevant product and/or application information for this product.