

# Material Safety Data Sheet

## 1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	: Hardener
Identity (Trade Name As Used On Label)	: CA-25 FR604
Name of manufacturer	: TAIYO INK (SUZHOU) CO.,LTD.
Address	: No.26 Taishan Road, Suzhou New District, Suzhou City Jiangsu Province,P.R.China
Phone number	: 0512-66655550
Emergency Phone Number	: 4008-851-060
MSDS Number	: MSC-CCTR15203-A-00
Date Prepared	: November 6th, 2017
For other information	: -

## 2.HAZARDS IDENTIFICATION

<b>Physical hazards</b>	
Flammable liquids	Category 4
<b>Health hazards</b>	
Acute toxicity oral	Category 4
Acute toxicity dermal	Classification not possible
Acute toxicity inhalation;gas	Category5
Acute toxicity inhalation;vapor	Classification not possible
Acute toxicity inhalation;dust	Classification not possible
Acute toxicity inhalation;mist	Classification not possible
Skin corrosion/irritation	Classification not possible
Eye damage/irritation	Category 2A
Respiratory sensitization	Classification not possible
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Effects on or via lactation	Classification not possible
Specific target organ systemic toxicity(Single exposure)	Classification not possible
Specific target organ systemic toxicity(Repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible
<b>Environmental hazards</b>	
Hazardous to the aquatic environment Acute hazard	Classification not possible
Hazardous to the aquatic environment Chronic hazard	Classification not possible

**Symbol**

Warning

**Hazard statement** Combustible liquid.  
 Harmful if swallowed.  
 May cause an allergic skin reaction.  
 Causes serious eye irritation.  
 May be harmful if inhaled.  
 Suspected of causing genetic defects.

**Precautionary statement**

**Prevention** Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Wash ... thoroughly after handling.  
 No eating, drinking or smoking on operation.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Use personal protective equipment as required.

**Response** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 IF ON SKIN: Wash with plenty of soap and water.  
 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Call a POISON CENTER or doctor/physician.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Wash contaminated clothing before reuse.

**Storage** In case of fire: Use CO<sub>2</sub>, foam, extinguishing powder for extinction.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3.COMPOSITION / INFORMATION ON INGREDIENTS

#### Substance/Mixture: Mixture

Chemical name	CAS No.	Composition(wt%)
Epoxy resin	Secret	<40%
Acrylate Resin	Secret	<25%
Barium Sulfate	7727-43-7	<15%
Amine Compound	Secret	<10%
Defoamer and others	Secret	<10%
Diethylene Glycol Monoethyl Ether Acetate	112-15-2	<10%

### 4.FIRST – AID MESURES

Inhalation	: Remove the victim from the contamination immediately to fresh air. If breathing is weak, irregular or has stopped, open his airway, loosen his collar and belt and administer artificial respiration. And refer for medical attention.
Skin contact	: Remove all contaminated clothing. Wash the affected area with plenty of water with mild soap. If irritation is continued, refer to medical attention.
Eye contact	: Gently rinse the affected eyes with clean water for at least 15 minutes lifting upper and lower eyelids occasionally. And refer to medical attention.
Ingestion	: Do not induce vomiting and refer to medical attention. Never give anything to someone who is unconscious.

### 5.FIRE – FIGHTING MEASURES

Extinguishing media	: Dry chemical powder, carbon dioxide, foam and dry sand.
Unsuitable extinguishing	: Water spray and water jet.
Exposure Hazards	: Burning may release oxides of carbon, nitrogen, sulphur and other toxic gases or vapors. Do not release chemically contaminated water into drains or surface waters. Dispose of contaminated waters and soil according to local regulations.
Special protective for fire-fighters	: Use full protective clothing and self-contained breathing apparatus.
Measures	: Promptly move transferable containers to another safety area. Check the speed and spread of fire. Extinguish the fire with suitable extinguisher from the windward side.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Evacuate personnel without wearing protective equipment. Put on protective equipment. Ensure
Environmental precautions	: Do not wash away into sewer, watercourse or river
Methods and materials for containment and cleaning up	: For small spill, absorb spills with inert materials (e.g. dry sand or earth), then place in a chemical waste containers. For large spill, dike for later disposal, cover spills with foam, then place in a chemical waste container using non-sparking tools.

## 7. HANDLING AND STORAGE

Handling	: Take measures of as described in chapter "8. EXPOSURE CONTROLS / PERSONAL PROTECTION" and wear an appropriate protective equipment. Should be established the adequate local exhauster in the indoor working area.
Storage	: Keep containers tightly closed and store in a cool, dark, well-ventilated location. Store below 20°C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure control	: Use this product only in a totally enclosed systems or local exhaust ventilation. Make available in the work area with emergency shower and eyes washer.
Control parameters	: Barium Sulfate PC-TWA total dust 5mg/m <sup>3</sup>
Engineering measure	: Do not use in area without adequate ventilation and local exhaust ventilation.
Personal protection equipment	Respiratory protection: Industrial canister gas masks. Eye protection: Safety goggles or face shield. Hand, skin and body protection: Chemical-resistant gloves, impervious boots and apron or full-body suit.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: White Paste	Odor	: Mild odor
pH	: No Data	Freezing point	: -
Boiling point	: 217°C (760mmHg)	Flash point	: 107°C (SETA)
Explosion properties	: 1.1 – 6.9	Vapor pressure (kPa)	: 0.07(38°C)
Vapor density	: 6.12(Air=1)	Specific gravity	: 1.2±0.1
Solubility in water	: ≤8.0%	Octanol/water partition coefficient	: -
Auto-ignition temperature	: -	Decomposition temperature	: -

**10. STABILITY AND REACTIVITY**

Stability	: Stable for normal storage and handling.
Reactivity	: Not reactive with water.
Conditions to avoid	: Heat and sunlight.
Materials to avoid	: Strong acids, strong bases, peroxides and strong oxidizing agents.
Hazardous decomposition products	: Burning may release oxides of carbon, nitrogen, sulphur and other toxic gases or vapors.

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity	: Harmful if swallowed.
Skin corrosion/irritation	: Classification not possible
Serious eye danger/eye irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Classification not possible
Reproductive toxicity	: Classification not possible
Specific target organ systemic toxicity(Single exposure)	: Classification not possible
Specific target organ systemic toxicity(Repeated exposure)	: Classification not possible
Aspiration hazard	: May be harmful if inhaled.

**12. ECOLOGICAL INFORMATION**

Eco-toxicity	: No relevant information found
Persistence and degradability	: No relevant information found
Potentially bioaccumulation	: No relevant information found
Bioconcentration or bioaccumulation	: No relevant information found
Other harmful effects	: No relevant information found

**13. DISPOSAL CONSIDERATIONS**

appropriate methods of disposal	: Dispose of contents /container in accordance with local / regional / national / international regulations.
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**14. TRANSPORT INFORMATION**

UN Number	: No
Proper shipping name	: No
Hazard class	: Not applicable
Packing group	: No
Marine pollutant	: -
Any especial precaution on the transport or conveyance	: Make sure container is no damage and no leakage before transport. Keep container upright and properly tighten not to fall down.

**15. REGULATORY INFORMATION**

Regulatory information with regard to this preparation in your country or region should be examined by your own responsibility
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**16. OTHER INFORMATION**

This Product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. It may not be valid for this material, if used in combination with any other materials.
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