



## 一、CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b> Solder Paste(Sn-Ag-Pb)	
<b>Other name:</b>	
<b>Product identifier:</b> SH6209-04、SH-6311、SH-6320、SH-6390、SH10882、SH6209RMA	
<b>Suggest purpose:</b>	
<b>Manufacture:</b> SHENMAO TECHNOLOGY INC.	
<b>Address:</b> No.12-1 Gongye 2 <sup>nd</sup> Rd., Guanin industrial area, Taoyuan County 328, Taiwan	
<b>TEL:</b> (886)3-416-0177	<b>FAX:</b> (886)3-416-0133
<b>Website:</b> <a href="http://www.shenmao.com">http://www.shenmao.com</a>	

## 二、HAZARDS IDENTIFICATION

<p>Hazard classification: Reproduction toxic substances Level 1、Lead: Carcinogenic substances Level 2、          Water environment toxic substances (acute toxicity) Level 3、Acute toxic substance (inhalation) Level 4、          Acute toxic substances (swallow) Level 5</p>
<p>Indication content:  </p> <p>Symbols: Health hazard, Exclamation mark</p> <p>Warnings: Hazard</p> <ol style="list-style-type: none"> <li>1. Contains material which may cause cancer</li> <li>2. Contains material which may cause reproductive harms or birth defects</li> <li>3. Toxic to aquatic organisms</li> <li>4. Toxic by inhalation</li> <li>5. Toxic if swallowed</li> </ol> <p>Measure : 1. Use only with adequate ventilation</p> <ol style="list-style-type: none"> <li>2. Dispose of surplus and container via a licensed waste disposal contractor</li> <li>3. Get medical attention if accident or irritation occurs</li> <li>4. Avoid exposure to this material – apply with appropriate instruction by trained personnel</li> </ol>
<b>Other hazard:</b> —

## 三、COMPOSITION, INFORMATION OR INGREDIENT

### Mixture :

Components-Chemical Name :	Hazards composition (wt. %):	( CAS No. ) :
Modified Rosin	4.5-6.5	8050-09-7
Diethylene Glycol Monohexyl Ether	4.5-6.5	112-59-4
Tin	60~70	7440-31-5
Silver	0.1~5.0	7440-22-4
Lead	30~40	7439-92-1

## 四、FIRST AID MEASURES

<b>First aid method in the different exposed way:</b>	
<b>EYE CONTACT</b>	Gently rinse the affected eyes with clean water for at least 15 minutes. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
<b>SKINCONTACT</b>	Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.
<b>INHALATION</b>	Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel.
<b>INGESTION</b>	Give the person one or two glasses of water or solution of salt, try to get the victim to vomit. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
<b>The most important symptoms and hazardous effect:</b> Irritation feeling	
<b>The protection to first-aid:</b> Should wear the level C protection equipment in the safe area implementation first aid.	
<b>Notes to physicians:</b> If the patient swallows, consideration gastric lavage and bowel movement.	

## 五、FIRE-FIGHTING MEASURES

<b>EXTINGUISH MEDIA:</b>
Use alcohol resistant foam, carbon dioxide or dry chemical extinguishing agents.
<b>FIRE-FIGHTING INSTRUCTIONS:</b>
Shut off fuel to fire if possible to do so without hazard.
Evacuate area and fight fire from a safe distance.
Apply water from a safe distance to cool and protect surrounding area.
Firefighters should wear proper protective equipment.
<b>FLASH POINT:</b> _Not applicable
<b>EXPLOSION LIMIT:</b> _Not available

## 六、ACCIDENTAL RELEASE MEASURES

Shut out all sources of ignition; No flare, smoking or flames in area.
Wear proper protective equipment.
For spills, wipe and scrape away with cloth or paper, take up and store in a sealed container.

## 七、HANDLING AND STORAGE

<b>HANDLING:</b>
Do not use fire near storage area.
Wear proper protective equipment.
<b>STORAGE:</b>
Keep away from heat or sunlight.
Store in a cool (0-10℃) place in closed containers.

## 八、EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>ENGINEERING MEASURES :</b>  Use only with adequate ventilation and in closed systems.  Make available emergency shower and eye wash in the work area.
<b>EXPOSURE GUIDELINES :</b>  ACGIH TLV:    0.1mg/m3    (Silver)        0.15mg/m3    (Lead) 2mg/m3        (Tin)
<b>PROTECTIVE EQUIPMENT:</b>  RESPIRATORY PROTECTION:Industrial canister gas masks.(Heating)  EYE PROTECTION:Safety goggles.  HAND, SKIN AND BODY PROTECTION: Rubber gloves.  Selection of specific items such as boots, apron or full-body suit will depend on operation.

## 九、Physics and chemical property

Appearance:	Gray colored paste
BOILING POINT	>200°C (Flux)
VAPOR PRESSURE:	<0.01mmHg(20°C)
MELTING POINT	Not available
SPECIFIC GRAVITY	Not available
SOLUBILITY (IN WATER)	Almost Insoluble

## 十、STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>  Stable, hazardous polymerization will not occur.
<b>INCOMPATIBILITY WITH OTHER MATERIALS:</b>  Strong oxidizing agents, strong bases and strong acids.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>  Carbon oxide on burning.
<b>HAZARDOUS POLYMERIZATION:</b>  Will not occur.

## 十一、 TOXICOLOGICAL INFORMATION

<b>CORROSIVE AND IRRITANT PROPERTIES:</b> Not available
<b>ALLERGENIC AND SENSITIZING EFFECTS:</b> Not available
<b>ACUTE TOXICITY:</b> Not available
<b>SUB-ACUTE TOXICITY:</b> Not available
<b>CHRONIC TOXICITY:</b> Animal drink water containing 0.18mg/L of lead may get lead poisoning.  Rats ingested the 0.005mg/Kg of lead showed evidence of CMS disturbances.
<b>CARCINOGENIC EFFECTS:</b> Not available
<b>MUTAGENIC EFFECTS:</b> Not available
<b>EFFECTS ON THE REPRODUCTIVE SYSTEM:</b> Not available

TERATOGENIC EFFECTS: Not available

## 十二、 ECOLOGICAL INFORMATION

Ecotoxicity: —
Persistent and biodegradable: —
Bio-accumulative potential: —
Mobility in soil: —
Other adverse effects: —

## 十三、 DISPOSAL CONSIDERATIONS

Methods of waste disposal: Bury with qualified hygiene.
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## 十四、 TRANSPORTS INFORMATION

UN No.: —
UN Proper shipping name: —
Transportation hazard classification: —
Packing group: —
Marine pollutant (Yes/No): —
Specific transport measures and precautionary conditions: —

## 十五、 REGULATORY INFORMATION

<b>Applicable regulations:</b> <ol style="list-style-type: none"> <li>1. Labourer's safe health facilities rule.</li> <li>2. The harmful thing permits concentration standard in the labourer work surrounding air.</li> <li>3. The undertaking of storage and purge method and standard.</li> <li>4. Dangerous thing and harmful thing rule.</li> <li>5. Safety regulation of the road traffic.</li> </ol>
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## 十六、 OTHER INFORMATION

<b>Reference</b>	Council of Labor Affairs Material Safety Data Sheets Database		
<b>Prepared By</b>	Department: SHENMAO		
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