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MSDS Number: 268  
 Revision Date: 03/18/2015  
 Supersedes Date: 03/10/2013

**MATERIAL SAFETY DATA SHEET**



Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: SOLDER 60/40 ROSIN CORE**

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product Type:	Solder	Emergency Contact:	Chemtrec
Product Name:	<b>SOLDER 60/40 ROSIN CORE</b>	Phone:	<b>(800) 424-9300</b>
Part Number(s):	<b>6033 6040 9132 H3-391 6034 6044 9134 6039 6045 H3-390</b>		

**SECTION 2. HAZARDS IDENTIFICATION**

<p><b>Goods hazard classification:</b> 1.Reproduction toxic substances Level 1          2. Lead: Carcinogenic substances Level 2          3. Acute toxic substance (inhalation) Level 4</p>
<p>Indication content:  </p> <p><b>Symbolic mark :</b> Health \ 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 by inhalation</li> </ol> <p>Measure : 1. Use only with adequate ventilation          2. Dispose of surplus and container via a licensed waste disposal contractor          3. Get medical attention if accident or irritation occurs</p>
<p><b>Other hazard:</b> —</p>

**SECTION 3. COMPOSITION, INFORMATION OR INGREDIENT**

Pure substances:

<b>Components name:</b>
<b>Other name:</b>
<b>CAS No.:</b>
<b>Hazards composition (wt. %):</b>



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### SECTION 3. COMPOSITION, INFORMATION OR INGREDIENT (CONTINUED)

**Mixture :**

Components-Chemical Name :	( CAS No. ) :	Hazards composition (wt. %):
Rosin	8050-09-7	1.0~4.0
Tin	7440-31-5	5~70
Silver	7440-22-4	0.0~5.0
Lead	7439-92-1	30~95

### SECTION 4. FIRST AID MEASURES

First aid method in the different exposed way:	
<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.	

### SECTION 5. FIRE-FIGHTING MEASURES

EXTINGUISH MEDIA:
Use alcohol resistant foam, carbon dioxide or dry chemical extinguishing agents.



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### SECTION 5. FIRE-FIGHTING MEASURES (CONTINUED)

**FIRE-FIGHTING INSTRUCTIONS:**

- 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.

**FLASH POINT:** \_Not applicable

**EXPLOSION LIMIT:** \_Not available

### SECTION 6. 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.

### SECTION 7. HANDLING AND STORAGE

**HANDLING:** Do not use fire near storage area.

Wear proper protective equipment.

**STORAGE:** Keep away from heat or sunlight.

Store in a cool (0-10°C) place in closed containers.

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**ENGINEERING MEASURES\_**

Use only with adequate ventilation and in closed systems.

Make available emergency shower and eye wash in the work area.

**EXPOSURE GUIDELINES\_**

ACGIH TLV: 0.1mg/m3 (Lead)  
2.0mg/m3 (Tin)



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### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONTINUED)

**PROTECTIVE EQUIPMENT:**

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.

### SECTION 9. PHYSICS AND CHEMICAL PROPERTY

Appearance:	Gray colored paste
BOILING POINT	>200°C (Flux)
VAPOR PRESSURE:	<0.01mmHg(20°C)
MELTING POINT	179~183°C (Solder)
SPECIFIC GRAVITY	8.4g/cm3 (Solder, 20°C)
SOLUBILITY (IN WATER)	Almost Insoluble

### SECTION 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:**

Stable, hazardous polymerization will not occur.

**INCOMPATIBILITY WITH OTHER MATERIALS:**

Strong oxidizing agents, strong bases and strong acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon oxide on burning.

**HAZARDOUS POLYMERIZATION:**

Will not occur.



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### SECTION 11. 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
<b>TERATOGENIC EFFECTS:</b> Not available

### SECTION 12. ECOLOGICAL INFORMATION

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

### SECTION 13. DISPOSAL CONSIDERATIONS

<b>Methods of waste disposal:</b> Bury with qualified hygiene.
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### SECTION 14. TRANSPORT INFORMATION

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



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### SECTION 15. REGULATORY INFORMATION

**Applicable regulations:**

1. Occupation safe hygiene facilities rule.
2. Laborer operating environment permits the thickness standard
3. Industrial waste storage cleaning dispose method and facility standard
4. Hazardous chemicals labeled general rule

### SECTION 16. OTHER INFORMATION

<b>Reference</b>	Occupational Safety and Health Administration , Ministry Of Labor, GHS inquiry system
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GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.