

GC Electronics
 1801 Morgan Street
 Rockford, IL 61102
 Phone: (815) 968-9661
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 www.gcelectronics.com

Product Name: Solder 60/40 Rosin Core

MSDS Number: 268
 Revision Date: 2/19/04
 Supersedes Date: 4/11/01

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type:	Solder	Emergency Contact: Chemtrec
Product Name:	Solder-60/40 Rosin Core	Phone (24 hours): (800) 424-9300
Part Number(s):	6033 9132	
	6034 H3-390	
	6039 H3-391	
	6040 9134	
	6044 12-5380	
	6045 12-5391	

Section 1 - Identification of Product

HMIS Rating		NFPA		Least	0
Health	3	Health	3	Slight	1
Flammability	1	Flammability	1	Moderate	2
Reactivity	1	Reactivity	1	High	3
				Extreme	4

Section 2 - Hazardous Ingredients

Chemical Name	CAS#	% Wt.	Exposure Guidelines ACGIHTLV
Rosin	8050-09-7	1.1	
Wax	Trade Secret	0.3	
Solvent (Diethyl Glycol-Mono Mooney Ether)	112-59-4	0.4	
Additive	Trade Secret	0.2	
Solder (Sn 60%, Pb 40%)	69011-60-5	98.0%	
(Lead)	(Pb: 7439-92-1)	(39.2)	0.15 mg/m ³
(Tin)	(Sn: 7440-31-50)	(58.8)	2 mg/m ³

*Appears in Section 313 of the Toxic Chemicals list of Title III of the Superfund Amendment and Reauthorization Act of 1986.

Rosin is not a hazardous material, not carcinogenic.

Warning: This product contains lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

DOT Shipping-Land.

Section 3 - Physical Data

Boiling Point:	>200° (Flux)
Vapor Pressure:	<0.01 mm Hg (20°)
Solubility in H ₂ O:	Almost Insoluble
Specific Gravity:	8.4 g/cm ³ (Solder, 20°)

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Form: Solid
 Appearance and Odor: Gray wire with mild flux
 Melting Point: 190° (Solder)

Section 4 - Fire & Explosion Hazard Data

Flash Point:	N/A
Flammable Limits (% in Air):	N/A
Extinguishing Media:	Foam, carbon dioxide or dry chemical
Special 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
Unusual Fire and Explosion Hazards:	Toxic lead and tin fumes result from exposure to very high temperatures.

Section 5 - Health Hazard Data

Physical and Chemical Hazards:	Vapors may catch fire.
Adverse Human Health Hazard:	Vapors may irritate eyes, respiratory system and skin. Harmful by inhalation. IARC Group 2B (Lead) (Possibly carcinogenic to humans.)
Effects of Overexposure:	Note: These effects are for lead pallor, weakness, loss of weight, malnutrition, metallic taste, diarrhea, anorexia, nausea, vomiting, constipation, abdominal pain, numbness of extremities, nocturia, weakness of wrists and ankles, tremor, muscular cramps and aches. Visual disturbances, headache, dizziness, depression, insomnia, mental confusion, delirium.
Primary Routes of Entry:	_4Inhalation _4Ingestion _Skin _Eye
First Aid Measures:	
Eye Contact:	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.
Skin Contact:	Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible, cutting them off if necessary. Wash the affected area under tepid running water using a mild soap. If irritation persists, arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
Inhalation Contact:	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.
Ingestion:	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.

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Section 6 - Reactivity Data

Stability:	<input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable
Conditions to Avoid:	N/A
Incompatibility (Materials to Avoid):	Strong acids, strong oxidizing agents and strong bases
Hazardous Decomposition Products:	Lead and tin fumes, carbon oxide on burning.
Hazardous Polymerization:	<input type="checkbox"/> May occur <input checked="" type="checkbox"/> Will not occur

Section 7 - Spill or Leak Procedures

Accidental Release Measures:	Shut out all sources of ignition; no flares, smoking or flames in the area. Wear proper protective equipment.
Waste Disposal:	Dispose in compliance with local regulations. Do not discharge into the environment. For spills wipe and scrape away with cloth or paper. Take up and place in closed container.

Section 8 - Special Protection Information

Engineering Measures:	Use only with adequate ventilation and in closed systems. Make available emergency shower and eye wash in the user area.
Protective Equipment:	
Respiratory:	Industrial canisters, gas masks, (heating)
Eyewear:	Safety goggles or face shield.
Ventilation:	<input type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical As required to meet TLV's
Hand, Skin, Body:	Rubber gloves and selection of specific items such as boots, aprons or full body suit will depend on operation.

Section 9 – Special Precautions
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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°) place in closed container.

Section 10 - Regulatory Information
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*Appears in Section 313 of the Toxic Chemicals list of Title III of the Superfund Amendment and Reauthorization Act of 1986. Tin CAS # 7440-31-50

Corrosive and Irritant Properties:	N/A
Allergenic and Sensitizing Effects:	N/A
Acute Toxicity	N/A
Sub-Acute Toxicity	N/A
Chronic Toxicity:	Animal drinking water containing 0.18 mg/1 of lead, got lead poisoning. Rats that ingested the 0.005 mg/Kg of lead showed evidence of CMS disturbances.

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Carcinogenic Effects: IARC group 2B (lead)

Mutagenic Effects: N/A

Effects on the Reproductive System: N/A

Teratogenic Effects: N/A

Warning: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Lead CAS # 7439-92-1
DOT Shipping-Land.

Disclaimer

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