

Material Safety Data Sheet

MSDS Date : 5/18/98

MSDS No: 7001

Multicore Solders, Inc.
 1751 Jay Ell Drive
 Richardson, TX 75081

Preparer: Robert Gilbert
Information: 972-238-1224
IN THE EVENT OF CHEMICAL
EMERGENCIES INVOLVING A
SPILL, LEAK, FIRE, EXPOSURE,
OR ACCIDENT INVOLVING
CHEMICALS CALL:800-424-9300

Identity:

Date Printed : 4/7/99

60/40 ROSIN CORE 370	64-008
64-009	64-017
Sn60 (Sn60Pb40) 366 FLUX	Sn60 (Sn60Pb40) 399 FLUX
Sn60 (Sn60Pb40) WRAP2	Sn60 (Sn60Pb40) WRAP3
Sn60 (Sn60Pb40) WRMAP2	Sn60 (Sn60Pb40) WRMAP3
Sn60 (Sn60Pb40) WRP3	

Transportation Requirements:

D.O.T. Hazard Class: N/A
D.O.T. Proper Shipping Name: N/A

UN/NA Code: N/A
D.O.T. Label Required: N/A
Packing Group: N/A

N.F.P.A. /Health: 2
Reactivity: 0
Fire: 0

Section I	(Hazardous Ingredients / Identity Information)			
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Hazardous Components	CAS. Number	OSHA Pel	ACGIH TLV	SARA 313 Percent
Lead	7439-92-1	0.05 mg/m ³	0.05 mg/m ³	35-40
Tin	7440-31-5	2 mg/m ³	2 mg/m ³	55-60

Rosin core solder decomposition products as resin acids colophony	8050-09-7	Sensitizer. Reduce exposure as low as possible.	1-4
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Section II	(Physical / Chemical Characteristics)
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Boiling Point: N/A	Specific Gravity: (Water = 1) @ 25° C: 8
Vapor Density (Air=1): N/A	Vapor Pressure (mm Hg.): N/A
Evaporation Rate (Butyl Acetate=1): N/A	Percent Volatile By Volume: N/A
	Melting Point: 183 °C

Solubility in Water: Insoluble.
 Appearance and Odor: Gray metal with neutral odor.

Section III	(Fire and Explosion Hazard Data)
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Flash Point (Method Used) N/A	Flammable Limits: LEL: N/A UEL: N/A
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Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Special Fire Fighting Procedures: Use full body protective clothing and full face piece, self-contained breathing apparatus operated in a positive-pressure mode.

Unusual Fire and Explosion Hazards: Do not use water on fires where molten metal is present. High temperatures may produce heavy metal fumes, dust and or vapor.

Section IV	(Reactivity Data)
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Stability: Unstable? No Stable? Yes**Incompatibility (Materials to Avoid):** Strong Oxidizers**Hazardous Decomposition or By-products:**

High temperatures may produce heavy metal fumes, dust and or vapors.

Hazardous Polymerization:

May Occur? No Will Not Occur? Yes

Conditions to Avoid: None Known

NL - Not Listed N/A - Not Applicable

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Section V	(Health Hazard Data)
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Routes of Entry:

Inhalation? Yes Skin? No Ingestion? Yes Other: None

Health Hazards (Acute and Chronic)

Acute: Weakness, vomiting, loss of appetite, convulsions, stupor and possibly coma.

Chronic: Weakness, insomnia, hypertension, slight irritation of the eyes, headache, possible paralysis. Chronic overexposure to lead may result in damage to blood-forming, nervous, urinary and reproductive system.

California Proposition 65 Warning! This product contains a chemical known to the state of California to cause cancer, and that may cause birth defects or other reproductive harm.

Carcinogenicity: NTP? No IARC Monographs? Yes OSHA Regulated? No Other? No

Formaldehyde formed during the decomposition of rosin flux is listed as a suspected human carcinogen by ACGIH. Lead listed by IARC as 2B.

Signs and Symptoms of Exposure:

Dust, vapor and or fumes may be irritating to skin, eyes and respiratory system.

Medical Conditions Generally Aggravated by Exposure:

Note to physicians: Lead and its inorganic compounds are neurotoxins which may produce neuropathy. Rosin is an allergen.

Emergency First Aid Procedures

Eyes: Flush with copious quantities of water. Get medical attention.

Skin: Wash with soap and water.

Inhalation: Remove from exposure. Get medical attention if experiencing effects of overexposure.

Ingestion: Get immediate medical attention.

Section VI	(Precautions for Safe Handling and Use)
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Steps to be Taken in Case Material is Released or Spilled:

Particulate matter should be stored in dry containers for later disposal. Dust material should be vacuumed or wet swept. Do not use compressed air or dry sweeping as a means of cleaning.

Waste Disposal Method:

Dispose of in accordance with local, state and federal regulations. Consult a licensed hazardous waste company.

Precautions to be Taken in Handling and Storing:

Wash hands with soap and water after handling solder. Store in dry area. Avoid skin contact. Avoid breathing smoke during soldering. Shelf life of 10 years if stored in a dry area at room temperature.

Other Precautions: None known.

Section VII	(Control Measures)
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Respiratory Protection (Specify Type):

As specified by 29 CFR 1910.1025 (F) if exposure exceeds PEL.

Ventilation:

Local exhaust : Remove smoke from breathing area. Special: None needed

Mechanical (General): Adequate Other: None needed.

Protective Gloves: Impervious

Eye Protection: Face shield or safety glasses

Other Protective Clothing or Equipment:

Personal clothing and shoes should be protected from contamination. Eye wash station.

Work/Hygenic Practices:

Do not eat, drink or smoke in work areas. Wash hands thoroughly before eating or smoking.