

Revision Date: 12/9/2009

**MATERIAL SAFETY DATA SHEET****Section 1: PRODUCT AND COMPANY IDENTIFICATION****Product Name: ALL SN97C and SAC305 SOLDER PASTES**

This MSDS is for all types of solder pastes that use SN97C or SAC305 powder.

FCT Assembly Inc.  
1309 N. 17th Ave.  
Greeley, CO 80631  
USA

Company Phone Number: 970-346-8002

Website: www.fctassembly.com

**Emergency Phone Number: 800-535-5053****Section 2: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Signal Word: WARNING

Hazard Type: None

Appearance: Grey cream

Color: Grey

Odor: None to slight

Likely Exposure Routes: Eyes, Ingestion, Inhalation, Skin

Exposure Effects

Inhalation: May cause physical discomfort to the respiratory tract.

Eyes: May cause slight irritation.

Ingestion: May cause nausea and vomiting. May cause irritation to the mouth, throat and stomach.

Skin: Prolonged contact may cause mild skin irritation.

Target Organs: Not Determined

Potential Carcinogens as listed by OSHA, IARC, or NTP: NONE

Other Possible Health Effects: See Section 11 for more information.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: Not Available

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component(s)	CAS Number	Weight Percentage
Copper	7440-50-8	<2%
Silver	7440-22-4	<5%
Tin	7440-31-5	>90%

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**MATERIAL SAFETY DATA SHEET****SECTION 4: FIRST AID MEASURES**

Inhalation: Move to fresh air. Get medical attention if symptoms occur.

Eyes: Immediately flush with water for at least 15 minutes or until the chemical is removed.

Ingestion: If conscious, rinse mouth with water. Seek medical advice on whether to induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Skin: Wash off immediately with soap and water. If clothing is contaminated, remove and launder before reuse.

Special instructions for physicians: Follow usual and customary procedures

**SECTION 5: FIRE FIGHTING MEASURES**

Fire fighting measures: Standard procedure for chemical fires.

Fire fighter protection: Vapors and fumes may be irritating and toxic. Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

Suitable extinguishing media: Carbon dioxide, dry chemical, foam or water spray.

Unsuitable extinguishing media: Not applicable

As with any chemical fire, combustion products of unknown toxicity are always possible.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Use personal protection recommended in Section 8.

Containment methods: If possible, stop further leakage of the material. Contain spilled material by diking with non-flammable diking materials.

Clean-Up methods: Absorb spilled liquid in a suitable material. Sweep or vacuum material into disposal containers.

Environmental precautions: This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination.

Spill reporting requirements: If the spilled amount is greater than the RQ in section 15, this spill must be reported to the National Response Center.

**Section 7: HANDLING AND STORAGE**

Handling: Use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale mist or vapors. Do not taste or swallow. Use only with adequate ventilation.

Storage: Keep container closed when not in use. Avoid elevated and freezing temperatures.

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#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Exposure Guidelines

Material Name	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Copper	1 mg/mm <sup>3</sup>	NE	NE	NE
Silver	0.01 ppm	NE	0.1 ppm	NE
Tin	2 mg/m <sup>3</sup>	NE	2 mg/m <sup>3</sup>	NE

General Hygiene Considerations: Discard contaminated gloves after use. Have eye-wash facilities in the immediate vicinity. Work in adequately ventilated area. Do not breathe vapors or mist. Minimize any contact with any chemical.

Respiratory Protection: No special respiratory equipment is needed.

Eye/Face Protection: Wear safety glasses when handling this material.

Skin Protection: Wear nitrile or latex gloves. Wear protective clothing.

Engineering Controls: Work in well ventilated areas. Do not breathe vapors or mist.

Other Protective Equipment: Eye wash station and safety shower should be available in immediate work area. Select additional protective equipment based upon potential for exposure.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Grey	VOC Percentage:	<2%
Physical State:	PASTE	Evaporation Rate:	N/A
Odor:	None to slight	Odor Threshold:	Not Determined
Melting Point:	350 F	Coeff. Water/Oil Dist. :	Not Determined
Boiling Point:	>700 F	Lower Explosive Limit:	Not Established
Specific Gravity:	>5	Upper Explosive Limit:	Not Established
pH:	N/A	Flash Point:	Non Flammable
Vapor Pressure:	Not Determined	Solubility:	Insoluble
Vapor Density:	Not Determined		

#### SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None known.

Incompatible Materials: None known

Hazardous decomposition products: Not Determined

Possibility of hazardous reactions: None expected.

### MATERIAL SAFETY DATA SHEET

#### SECTION 11. TOXICOLOGY INFORMATION

The toxicological data below is based on the main component(s)

##### ACUTE EFFECTS

Acute Oral Toxicity: Not Determined  
Acute Derma I Toxicity: Not Determined  
Acute Inhalation Toxicity: Not Determined  
Sensitization: Not a sensitizer  
Acute Eye Irritation: Mildly irritating.  
Acute Skin Irritation: Mildly irritating.

##### CHRONIC EFFECTS

Carcinogenicity: None of the components of this product are listed as a carcinogen by IARC, NTP, OSHA, or ACGI  
Mutagenicity: Not Determined  
Reproductive Effects: Not Determined  
Teratogenicity: Not Determined  
Synergistic Products: NONE

#### SECTION 12. ECOLOGICAL INFORMATION

The ecological data below is based on the main component(s)

##### ACUTE FISH RESULTS:

Species	Exposure	LC50
Not Determined		

##### ACUTE INVERTEBRATE RESULTS:

Species	Exposure	LC50	EC50
Not Determined			

##### AQUATIC PLANT RESULTS:

Species	Exposure	LC50/EC50
Not Determined		

Persistence/Degradability: Not determined  
Bioaccumulation/Accumulation: Not determined  
Mobility in Environment: Not expected to be very mobile.

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### **SECTION 13. DISPOSAL CONSIDERATIONS**

Product is a RCRA Hazardous Waste? NO

Dispose of in accordance with federal, state, and local regulations.

### **SECTION 14. TRANSPORT INFORMATION**

US D.O.T. and Canadian TDG (ground)

Proper Shipping Description:

NON D.O.T. REGULATED

ICAO (air)

Proper Shipping Description: See US D.O.T.

IMDG (water)

Proper Shipping Description: See US D.O.T.

### **SECTION 15. REGULATORY INFORMATION**

#### FEDERAL REGULATORY INFORMATION

All components are listed in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory:

#### Title III SARA Section 302

Product contains materials subject to reporting under SARA Section 302? **NO**

#### CERCLA

Product contains materials subject to reporting under CERCLA (40 CFR302.4) **YES RQ=1000**

#### Title III SARA Section 313

Product contains materials subject to reporting under SARA Section 313? **YES**

#### Resource Conservation and Recovery Act (RCRA)

Product is a hazardous waste under RCRA (40 CFR 261.20)? **NO**

#### STATE REGULATORY INFORMATION

#### California Proposition 65

Product contains materials that are carcinogenic and/or can cause reproductive harm and is subject to warning and discharge requirements under the "Safe Water and Toxic Enforcement Act of 1986": **NO**

WHMIS Canadian Workplace Hazardous Material Information System

WHMIS Classification: Not Applicable

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**SECTION 16. OTHER INFORMATION**

NFPA 704: National Fire Protection Association

Health: 2      Fire: 0      Reactivity: 0

0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

IMO International Maritime Organization

EmS Code: Not Applicable

Prepared by: Bill Plano (970) 346-8002

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