

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **SN100C Lead-free Solder**

Florida Cirtech Inc.  
1309 N. 17th. Ave.  
Greeley, CO 80631  
USA

Company Phone Number: 970-346-8002  
Website: [www.floridacirtech.com](http://www.floridacirtech.com)

**Emergency Phone Number: 800-535-5053**

## SECTION 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Signal Word: CAUTION  
Hazard Type: None  
Physical State: SOLID  
Color: Grey  
Odor: None  
Likely Exposure Routes: Ingestion, 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.  
Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight Percentage
Tin	7440-31-5	>99%
Copper	7440-50-8	<1%

## 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.

SKIN. WASH OFF IMMEDIATELY WITH SOAP AND WATER. IF CLOTHING IS CONTAMINATED, REMOVE AND LAUNDRY 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.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Guidelines</u>	OSHA		ACGIH	
Material Name	TWA	STEL	TWA	STEL
Tin	2 mg/m <sup>3</sup>	NE	2 mg/m <sup>3</sup>	NE
Copper	1 mg/mm <sup>3</sup>	NE	NE	NE

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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:	0
Physical State:	SOLID	Evaporation Rate:	N/A
Odor:	None	Odor Threshold:	Not Determined
Melting Point:	450 F	Coeff. Water/Oil Dist.:	Not Determined
Boiling Point:	>1000F	Lower Explosive Limit:	N/A
Specific Gravity:	5.83-11.27	Upper Explosive Limit:	N/A
pH:	n/a	Flash Point:	Non Flammable
Vapor Pressure:	NONE	Solubility:	Insoluble
Vapor Density:	N/A		

## SECTION 10: STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid:	None known.
Incompatible Materials:	None known
Hazardous decomposition products:	At temps above melting point metal oxide fumes may be evolved.
Possibility of hazardous reactions:	None expected.

## SECTION 11: TOXICOLOGY INFORMATION

### ACUTE EFFECTS

Dermal Toxicity LD50:	the main component(s)
Oral Toxicity LD50:	None of the components of this product are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.
Inhalation Toxicity:	Not irritating.
Eye Irritation:	Mildly irritating.
Skin Irritation:	Not Determined
Sensitization:	

### CHRONIC EFFECTS

Carcinogenicity:	Not Determined
Mutagenicity:	Not Determined
Reproductive Effects:	
Teratogenicity:	
Synergistic Products:	NONE

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Not determined
Persistence/Degradability:	Not determined
Bioaccumulation/Accumulation:	the main component(s)
Mobility in Environment:	Not expected to be very mobile.

## SECTION 13: DISPOSAL CONSIDERATIONS

Product is a RCRA Hazardous Waste?	NONE
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

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)? NO

Title III SARA Section 313

Product contains materials subject to reporting under SARA Section 313? NO

Resource Conservation and Recovery Act (RCRA)

Product is a hazardous waste under RCRA (40 CFR 261.20)? NONE

### STATE REGULATORY INFORMATION

California Proposition 65

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

WHMIS Canadian Workplace Hazardous Material Information System

WHMIS Classification Not Applicable

## SECTION 16: OTHER INFORMATION

NFPA 704: National Fire Protection Association

Health: 1 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

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