

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SN100Ce SN100C(L)e Lead-free Solder

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

Company Phone Number: 970-346-8002  
Website: 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%

## 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

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/m3	NE	2 mg/m3	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: 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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