



## **SAFETY DATA SHEET (SDS)**

### **MATERIAL SAFETY DATA SHEET (MSDS)**

#### **Section 1 - Product and Company Identification**

Trade Name: CEC LED LAMP WITH LEAD-FREE SOLDER.

Manufacturer: CEC INDUSTRIES LTD 599 BOND STREET LINCOLNSHIRE, IL 60069 USA.  
TEL: (847)821-1199 FAX: (847)821-1133

#### **Section 2 - Hazards Identification**

NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards and/or NIOSH Pocket Guide to Chemical Hazards lists the following effects of overexposure to the chemicals/materials tabulated below when they are inhaled, ingested, or contacted with skin or eye:

Permissible Exposure Level:

There are no knowing health hazards from exposure to lamps that are intact. No advance effects are expected from occasional exposure.

Effects of Overexposure:

INGESTION: Not a probable route of exposure.

SKIN: Materials are not likely to cause irritation. Contact with heated material may cause thermal burns.

EYE: Solid/dust may cause irritation due to mechanical action.

INHALATION: Processing fumes may cause irritation to the respiratory tract, coughing, choking.

All other components of this product do not pose a significant risk of respiratory and/or physical effects.

#### **Section 3 -Composition/Information on ingredients**

Exposure Limits in Air (mg/cubic m)

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Hazard</b>	<b>ACCIH/TLV</b>	<b>OSHA/PEL</b>
MAKROLON 2605		Respiratory Irritant	10.0	5.0
Solder (Sb/Sn)				
Antimony (Sb)	7440-36-0	Toxic	0.5	0.5
Tin (Sn)	7440-31-5	Respiratory Irritant	2.0	2.0
Copper	7440-50-8	Respiratory Irritant	1.0	1.0
Zinc	7440-66-6	Respiratory Irritant	10.0	10.0
Nickel	7440-02-0	Respiratory Irritant	1.0	1.0

Materials listed on this data sheet are contained in varying percentages in this product. Exact percentages are proprietary and will not be disclosed other as required in Accordance with the regulations.

No Hazardous material is contained under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

No Hazardous ingredient subject to report under the toxic chemical (SARA313).

#### **Section 4 - First AID Measures**

First AID:

Inhalation: If discomfort, irritation or symptoms of pulmonary involvement develop, remove from exposure and seek medical attention as need.

Ingestion: In the unlikely event of ingesting a large quantity of material, seek medical attention immediately.

Skin Contact: Thoroughly wash affected area with mild soap or detergent and water and prevent further contact. Seek medical attention as need.

Eye Contact: Wash eyes, including under eyelids, immediately with copious amounts of water for 15 minutes. Seek medical attention as need.

#### **Section 5 - Fire-Fighting Measures**

Fire Extinguishing Materials: Water, water fog, dry chemical, foam. Use extinguishing agents suitable for surrounding fire.

Special Firefighting Procedure:

Use a self-contained breathing apparatus to prevent inhalation of dust and/or fumes that may be generate from material during firefighting activities.

Unusual Fire & Explosion Hazards:

During a fire irritating & toxic gases & aerosol may be generated by thermal decomposition & combustion.

## **Section 6 - Accidental release measures**

Step to be taken in case material is released or spilled: If molten, allow material to cool down and place into an appropriate marked container for disposal.

## **Section 7 - Handling and Storage**

Storage Temperature:

Maximum: 93° C (199.4° F)

Ventilation:

Use adequate general and local exhaust ventilation to maintain exposure levels below the PEL or TLV limits. If such ventilation is unavailable, use respirators as specified below.

Respiratory protection:

Use appropriate NIOSH approved respirator if airborne dust concentrations exceed the pertinent PEL or TLV limits. All appropriate requirements set forth in 29 CFR 1910.134 should be met.

### **PRECAUTION TO BE TAKEN IN HANDLING AND STORING:**

Store in a dry, sprinkler equipped warehouse, and protect it from rain or excessive moisture.

Product as shipped is not a combustible dust.

Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate.

## **Section 8 - Exposure Control/Personal Protection**

Hand Protection: OSHA Specified cut and puncture-resistant gloves are recommended.

Eye Protection: Safety glasses with side shields are recommended.

Skin and Body Protection: No specified skin protection requirements during normal handling and use.

Additional Protective Measures: After handling the material, wash hand and face thoroughly before eating, drinking, smoking or handling tobacco products, applying cosmetics or using toilet facilities.

## **Section 9 - Physical and chemical properties**

Form:	Solid
Appearance:	Various
Color:	Various
Odor:	Slight
pH:	Not Applicable
Melting Point:	220° C (428° F)
Boiling Point/Range:	Not Applicable
Flash Point:	310° C (608° F)
Lower Explosion Limit:	Not Applicable
Upper Explosion Limit:	Not Applicable
Vapor Pressure:	Not Applicable

Density:	Not Applicable
Specific Gravity:	Approximate 1.11
Solubility in Water:	insoluble
Decomposition Temperature:	380° C (716° F)
Softening Point:	150° C (302° F)
Bulk Density:	38 - 42 lb/ft <sup>3</sup>

### **Section 10 - Stability and Reactivity**

Stability: Stable

Conditions to avoid: None for intact lamps

Incompatibility (materials to avoid): None for intact lamps

Hazardous decomposition products (including combustion products): None for intact lamps

Hazardous polymerization products: Will not occur.

### **Section 11 - Toxicological Information**

No specific toxicological information is available.

### **Section 12 - Ecological Information**

No specific ecological information is available.

### **Section 13 - Disposal considerations**

#### **WASTE DISPOSAL METHOD:**

Clean-up by vacuuming or other method that avoids dust generated. Place materials in closed containers to avoid generating dust.

The materials of the products are non-hazardous and be discarded in accordance with existing federal, state and local environmental control laws.

### **Section 14 - Transportation information**

Land transport (DOT)

Non-Regulated list under US Department of Transportation.

Sea transport (IMDG) Non-Regulated

Air transport (ICAO/IATA) Non-Regulated

### **Section 15 - Regulatory Information**

United States Federal Regulations

OSHA Hazcom Standard Rating: Non-Hazardous.

US Toxic Substances Control Act: Listed on the TSCA Inventory.

US.EPA CERCLA Hazardous Substances (40 CFR 302) Components None

SARA Section 311/312 Hazard Categories: Non-hazardous under Section 311/312.

US.EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Components None

US.EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemical (40 CFR 372.65)-Supplier Notification Required: Components None

#### **Section 16 - Other Information**

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