



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

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

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

Trade Name: CEC SEALED BEAM LAMPS

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

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

THERE IS NO KNOWN HEALTH HAZARD FROM EXPOSURE TO LAMPS THAT ARE INTACT. No adverse effects are expected from occasional exposure to broken lamps. As a matter of good practice, avoid prolonged or frequent exposure to broken unless there is adequate ventilation. The major hazard from broken lamps is the possibility of sustaining glass cuts.

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: Lead – Ingestion and inhalation of lead dust or fume must be avoided. Lead dust or fumes may cause irritation of eyes and respiratory tract. Excessive lead absorption can be toxic and may include symptoms such as anemia, weakness, abdominal pain, and kidney disease. However, the chemical inertness and insolubility of this material is expected to reduce the potential for systemic lead toxicity.

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

### Section 3 -Composition/Information on ingredients

Chemical Name	CAS Number	% by wt	(Exposure Limits in Air (mg/cubic m))	
			ACCIH/TLV	OSHA/PEL
Glass (Soda Lime)	----	75 - 90	10.0	15.0
Tungsten	7440-33-7	0.05-1.0	5.00	---
Lead Wire	----	0 - 95		
Molybdenum	7439-98-7	0.02-1.0	5.00	5.00
Nickel	7440-02-0	0.01<1.5	1.00	1.00
*Plastic Base	----	0 - 95		
Rutile (TITANIUM DIOXIDE)	1317-80-2	0.01<0.5	10.00	15.00
Carbon Black	1333-86-4	0<0.1	3.50	----
Polyvinylchloride	9002-86-2	0.01<3.0	----	---
*Solder (Lead Free)	----	0 - 95		
Tin	7440-31-5	<1.0	2.00	2.00
Copper	7440-50-8	<0.1	1.00	1.00
*Metal Base	----	0 - 95		
Copper	7440-50-8	<3.0	1.00	1.00
Zinc	7440-66-6	<1.0	10.00	15.00
Nickel	7440-02-0	<0.5	1.00	1.00
Phosphorus (yellow)	7723-14-0	<0.1.5	0.10	0.10
Silicon	7440-21-3	<0.1	10.00	---
Hydrogen Bromide	10035-10-6	0-<1.0	10.0 Ceiling	10.0
Quartz, Fused	60676-86-0	0-95	0.1 Resp. Dust	0.1
Aluminum	7429-90-5	0-70	10.0	10.0
Ceramic(Steatite or Porcelain)	---	0-95	10.0	15.0
Amorphous Fused	7631-86-9	0.02	10.00	80
Titanium Dioxide	13463-67-7	0.008	10.00	15.00
Epoxy Resin	25068-38-6	0.1-0.2	Not established	Not established

\*\*Note: The components of this product are in solution and are not in an airborne or unbound state.

In addition to the tungsten lamp filament, other wires made from molybdenum, copper, and/or nickel are used to support wires or electrical connection. Lamp base may be either brass or nickel coated and contain lead free solder. Some lamp types are manufactured considered hazardous substances, but due to their form or relatively very low toxicity, do not present any hazard. Neither do the pigments used in the exterior coatings, due to the insolubility of the glass coating.

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 of Federal, State and Local.

### Section 4 - First AID Measures

First AID:

Not applicable for intact lamps without voltage applied.

If cuts occur from broken glass, use normal first aid procedures.

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

Flammability: Non-Combustible

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 generated from material during firefighting activities.

## **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**

Spill Release Procedures: NORMAL PRECAUTIONS SHOULD BE TAKEN FOR COLLECTION OF BROKEN GLASS.

Handling And Storage Precautions: APPROPRIATE HAND AND EYE PROTECTION SHOULD BE WORN WHEN DISPOSING OF LAMPS OR HANDLING BROKEN GLASS. Other Precautions: NONE SPECIFIED BY MANUFACTURER.

## **Section 8 - Exposure Controls/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**

Appearance and Odor: THIS IS A GLASS LIGHT LAMP WITH GLASS TUBES, OR WITH METAL BASE, OR WITH PLASTIC BASE.

Melting point: 680 – 700 ° C

Specific Gravity: 2.55 – 2.59

Stability: Insoluble.

Physical State: Solid.  
Color: Clear  
Appearance: Clear tubing or rod.  
Odor: Odorless.

### **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**

If lamps are broken, ventilate area where breakage occurred. Clean-up by vacuuming or other method to avoid dust generation. Take usual precautions for collection of broken glass. Place material in closed containers to avoid generating dust.

It is the responsibility of the waste generator to ensure proper classification and disposal of waste products. To that end, TCLP tests should be conducted on all waste products, including this one, to determine the ultimate disposition in accordance with applicable federal, state and local regulations. Lamps which pass the EPA's TCLP test are considered non-hazardous waste in most states. Always review your local and state regulations which can vary.

### **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: Hazardous when glass tube broken.

Reactivity Hazard: None

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** CEC Industries, Ltd believes that the information contained herein is accurate as of the date hereof. HOWEVER, NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREIN AS TO THE INFORMATION PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The health and safety precautions contained herein may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Nothing contained herein shall be construed as a license for the use of any product in a manner that would infringe existing patents.

**Issue Date: Feb. 15, 2019 REV. A**