MATERIAL SAFETY DATA SHEET

Section I  - Product and Company Identification

Trade Name:  CEC MINIATURE LAMPS /INCANDESCENT LAMPS Including Brass Base, Nickel Base & Plastic Base.

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

Section II  - Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>% by wt</th>
<th>ACCIH/TLV</th>
<th>OSHA/PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass ( Soda Lime )</td>
<td>----</td>
<td>75 - 90</td>
<td>10.0</td>
<td>15.0</td>
</tr>
<tr>
<td>Tungsten</td>
<td>7440-33-7</td>
<td>0.05-1.0</td>
<td>5.00</td>
<td>----</td>
</tr>
<tr>
<td>Lead Wire</td>
<td>----</td>
<td>0 - 95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molybdenum</td>
<td>7439-98-7</td>
<td>0.02-1.0</td>
<td>5.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>0.01&lt;1.5</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>*Plastic Base</td>
<td>----</td>
<td>0 - 95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rutile (TITANIUM DIOXIDE)</td>
<td>1317-80-2</td>
<td>0.01&lt;0.5</td>
<td>10.00</td>
<td>15.00</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>0&lt;0.1</td>
<td>3.50</td>
<td>----</td>
</tr>
<tr>
<td>Polyvinylchloride</td>
<td>8002-86-2</td>
<td>0.01&lt;3.0</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>*Solder (Lead Free)</td>
<td>----</td>
<td>0 - 95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tin</td>
<td>7440-31-5</td>
<td>&lt;1.0</td>
<td>2.00</td>
<td>2.00</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>&lt;0.1</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>*Metal Base</td>
<td>----</td>
<td>0 - 95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>&lt;3.0</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>&lt;1.0</td>
<td>10.00</td>
<td>15.00</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>&lt;0.5</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Phosphorus (yellow)</td>
<td>7723-14-0</td>
<td>&lt;0.1.5</td>
<td>0.10</td>
<td>0.10</td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>&lt;0.1</td>
<td>10.00</td>
<td>----</td>
</tr>
</tbody>
</table>
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 leak 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 III - Hazards Identification

THERE IS NO KNOWN HEALTH HAZARDFROM 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 IV - 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 V  - 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 VI  - 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 VII  - Handling and Storage**

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

Waste Disposal Methods: UNDER NEW TOXICITY CHARACTERISTIC LEACHING PROCEDURES (TCLP) PROMULGATED BY US ENVIRONMENTAL PROTECTION AGENCY (EPA), TESTS OF USED/SPENT FLUORESCENT, INCANDESCENT, & HIGH INTENSITY DISCHARGE LAMPS IN DICATE THAT SOME TYPES OF THESE (SUPDAT)

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 VIII  - 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 IX - Physical and chemical properties

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

Melting point: 680 – 700 degree C
Specific Gravity: 2.55 – 2.59
Stability: Insoluble.
Physical State: Solid.
Color: Clear
Appearance: Clear tubing or rod.
Odor: Odorless.

Section X - 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 XI - Toxicological Information

No specific toxicological information is available.

Section XII - Ecological Information

No specific ecological information is available.

Section XIII - Disposal considerations

If lamps are broken, ventilate area where breakage occurred. Clean-up by vacuuming or other method to avoids 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 XIV - 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 XV - 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 XVI - 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.

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