



Material Safety Data Sheet

Product : Compact Fluorescent Lamps (CFL)

Company Identification

Litetronics International Inc.,
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Hazardous Ingredients

Lamp Assembly

	<u>Phosphor Powder (nuisance dust)</u>	<u>Yttrium Oxide(1314-36-9)</u>	<u>Mercury(7439-97-6)</u>
OSHA (mg/m3)	15	1	0.1
ACGIH(TLV)	10	1	0.025
% by Wt	<2%	<0.5%	<0.01%

Chemical / Physical Data

This item is a light bulb and is Not applicable to intact lamps.

Fire & Explosion Data

The shell material of the light bulb is composed of Polybutylene terephthalate(PBT). It has a melting temperature of ~500°F. Generally continuous external flame source is needed to initiate or sustain combustion.

Reactivity Data

The PBT is a stable thermoplastic solid compound, and will not undergo hazardous polymerization.

Health Hazard Data

Not Applicable to the intact lamp. Breakage of the cover will not result in any release of material. The luminescent material are contained in the glass tube, which is inside the cover. Breakage of the tube may result in some exposure to phosphor powder dust and mercury. No adverse effects are expected from occasional exposure to broken lamps, but as a matter of good practice prolonged or frequent exposure should be avoided through the use of adequate ventilation during disposal of large number of lamps.

Emergency & First Aid Procedure : Normal first aid procedure for glass cuts, if such occur through lamp breakage.



Precautions for safe handling and use

Normal precautions should be taken for collection of broken glass

Waste Disposal Method : At the end of rated life, when the lamp is removed from service, it will, when subjected to the current Toxic Characteristic Leaching Procedure (TCLP) prescribed by the Environmental Protection Agency for determining whether an item is a hazardous waste be listed as a non-hazardous waste under current EPA definition. Dispose lamps according to local and state law, visit www.lamprecycle.org .

Control Measures

Respiratory Protection : None. NIOSH approved respirator might be used if large volume of lamps are being broken for disposal.

Ventilation : Avoid inhalation of any airborne dust. Provide local exhaust when disposing large quantities of broken lamps.

Hand & Eye Protection : Appropriate hand and eye protection should be worn when disposing or handling of broken lamps.

When breaking lamps wear protective eyeglasses or chemical safety goggles.

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Under the occupational Safety and Health Administration (OSHA) Hazards communication Standard, a lamp (light bulb) is exempted as an "article", and that as such, does not require an MSDS.