

### Lamp Material Data Sheet (LMDS)

LMDS #: CFI – 08100B

### Product: Philips Compact Fluorescent Lamps CFL-i – All Types

Date: 12/19/2012

ALTO and non-ALTO: SLS, EL/, Genie, and FC Types (All base types)

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#### Section 1. Manufacturer and Contact Information

### Philips Lighting Company

A Division of Philips Electronics North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873-4186

24 HR Emergency Phone Number: (800) 424-9300 CHEMTREC

Other Information Calls: (800) 555-0050 Philips Lighting Technical Information

#### Section 2. Hazardous Ingredients/Identity Information

These lamps contain the following materials:

| Material                              | (CAS #)     | Exposure Limits in Air        |                                | PERCENTAGE<br>by weight |
|---------------------------------------|-------------|-------------------------------|--------------------------------|-------------------------|
|                                       |             | OSHA PEL<br>mg/m <sup>3</sup> | ACGIH TLV<br>mg/m <sup>3</sup> |                         |
| Phosphor Powder<br>(as Nuisance Dust) |             | 15                            | 10                             | <2.5%                   |
| Yttrium Oxide (as Yttrium)            | (1314-36-9) | 1                             | 1                              | <0.5%                   |
| Barium Carbonate                      | (0513-77-9) | 0.5                           | 0.5                            | <0.1%                   |
| Manganese Carbonate                   | (598-62-9)  | 5                             | 5                              | <0.1%                   |
| Tin                                   | (7440-31-5) | 0.1                           | 0.1                            | <0.1%                   |
| Indium                                | (7740-74-6) | 0.1                           |                                | <0.07%                  |
| Bismuth                               | (7440-69-9) |                               |                                | <0.005%                 |
| Mercury                               | (7439-97-6) | 0.1                           | 0.025                          | ~0.025%                 |

The Phosphor Powder materials are ceramic phosphors. The ceramics are Barium Aluminate and Yttrium Oxide. The PEL and TLV are given where available for the base materials. There is no data for the ceramics as mixtures.

#### Section 3. Physical Properties

Not applicable to an intact lamp. These items are light bulbs in various shapes, configurations, and designs. All contain a small fluorescent tube (either twisted or bent to shape), a plastic housing (containing an electronic circuit to start the lamp), and a threaded base for use in standard incandescent lamp sockets (or a pin base for use in a GU24 socket). Some lamps utilize a glass, or plastic, outer envelop to enclose the fluorescent tube.

#### Section 4. Fire and Explosion Hazards

Not applicable to an intact lamp. If subjected to extreme heat, the plastic and glass components of the lamp may crack or melt and the lamp may emit toxic fumes.

## Section 5. Reactivity

Not applicable to an intact lamp.

## Section 6. Health Hazards

Not applicable to an intact lamp. Breakage of the lamp may result in some exposure to the phosphor powder and to elemental mercury. No adverse effects are expected from occasional exposure to broken lamps, but as a matter of good practice, prolonged exposure should be avoided through the use of adequate ventilation during the disposal of large quantities of lamps.

Emergency and First Aid Procedures: Apply normal first aid for glass cuts if such should occur through lamp breakage.

## Section 7. Lamp Disposal Procedures

Normal precautions should be taken for the collection of glass particles in the event a lamp is broken.

Waste Disposal Method: All compact fluorescent lamps contain some amount of mercury. When a compact fluorescent lamp is to be disposed, it is subject to the current EPA Toxicity Characteristic Leaching Procedure (TCLP) disposal criteria. This test is used to determine if an item can be managed of as hazardous or non-hazardous waste.

Philips low-mercury ALTO compact fluorescent lamps are identifiable by their characteristic green logo. Philips ALTO lamps are TCLP compliant and can be managed as non-hazardous waste. Philips will provide TCLP test data upon request.

Philips non-ALTO lamps (with black logo) are not TCLP compliant and should be managed as a hazardous waste under the EPA Universal Waste Rules for fluorescent lamps.

All disposal options should be evaluated with respect to federal, state, and local requirements. Before disposing of waste lamps, check with federal, state, and/or local officials for current guidelines and regulations. Philips encourages recycling of its products through qualified recycling facilities.

## Section 8. Control Measures

Respiratory Protection: None. NIOSH-approved respirator should be used if large quantities of lamps are being broken for disposal.

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

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

## Section 9. Regulatory Information

As a product, these mercury-containing lamps, when shipped in the manufacturer's original packaging, are not regulated by air, truck, or ocean shipment. As a waste, these lamps may be regulated in various states and local communities. This safety data sheet does not constitute "knowledge of the waste" in certain jurisdictions.

This document supercedes previous document: LMDS CFI-08100A issued on 08/10/2009.