

Lamp Material Data Sheet (LMDS)

Product: Philips QL Induction Lamp
All wattages (55W, 85W, 165W)

LMDS #: QL-11001A

Date: 12/31/2015

Page 1 of 2

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
		OSHA PEL mg/m ³	ACGIH TLV mg/m ³	
LAMP ASSEMBLY				
Inert Materials (glass, plastic, metals)				
Phosphor Powder (as Nuisance Dust)		15	10	by weight ~98%
Yttrium Oxide	(1314-36-9)	1	1	<0.6%
Barium Aluminate	(0513-77-9)			<0.2%
Manganese Aluminate	(598-62-9)			<0.2%
Rare Earth Aluminate	(7440-31-5)			<0.2%
Indium	(7740-74-6)	0.1	0.1	<0.3%
Bismuth	(7440-69-9)			<0.3%
Mercury	(7439-97-6)	0.1	0.025	~0.020%
Krypton (Kr ⁸⁵)	(13983-27-2)			<140nCi
ELECTRONICS				
Inert Materials (steel)	(7439-89-6)	10	5	~98%
Lead	(7439-92-1)	0.05	0.150	~1%
Tin	(7440-31-5)		2	<1%

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. The lamp envelope is made of glass. The electronics package is housed in a steel enclosure.

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, bismuth, and indium. 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.

The ultraviolet radiation from an operating QL is below the threshold limits recommended by ACGIH in the event of unintentional exposure.

The electromagnetic radiation emitted by the QL lamp system is well within the limits specified by the American National Standards Institute and the more severe guidelines of the International Radiation Protection Association.

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: This lamp contains a small amount of mercury. When a 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 as hazardous or non-hazardous waste. This lamp has not been tested for TCLP and should be managed as a hazardous waste under the EPA Universal Waste Rules for 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 documents: LMDS QL-11001, dated 12/19/2012