



## Philips Lighting Company

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### MATERIAL SAFETY DATA SHEET

Revised: 6/01

**PRODUCT: MERCURY VAPOR LAMP H37KC-250/DX**

### SECTION 1: MANUFACTURER

Manufacturer's Name and Address: Philips Lighting Company  
A division of Philips Electronics  
North America Corporation  
200 Franklin Square Drive  
Somerset, New Jersey 08875

Emergency Telephone No.: (800) 424-9300 CHEMTREC  
(732) 563-3197 Environmental  
Other Information Calls: (607) 776-3311 Ext. 300

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### SECTION 2: HAZARDOUS INGREDIENTS

	OSHA (PEL) mg/m <sup>3</sup>	ACGIH (TLV) mg/m <sup>3</sup>	% by Wt.
Mercury (7439-97-6)	.05	.025	Approx. .02%
Yttrium Vanadate Phosphor (nuisance dust)	15	10	Approx. 2.5%
Vanadium* (1314-62-1) as V <sub>2</sub> O <sub>5</sub>	0.1	.05	Approx. 1.0%
Yttrium* (7440-65-6)	1.0	1.0	Approx. 0.7%
Lead+ (7439-92-1)	.05	Less than 0.1	Less than 5%
Inert ingredients (Glass, Quartz, Metal)			Approx. 97.5%

\* Bound in molecular matrix of complex compound.

+ Mainly bound in glass bulb and solder.

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**SECTION 3: PHYSICAL DATA**

This item is a glass light bulb. Chemical characteristics are not applicable.

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**SECTION 4: FIRE AND EXPLOSION DATA**

This item is a light bulb; it has no fire data. Under extreme heat, outer envelope might melt or crack.

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**SECTION 5: REACTIVITY DATA**

Stability: Lamp is stable.  
Incompatibility: Glass will react with hydrofluoric acid.  
Polymerization: Will not occur.

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**SECTION 6: HEALTH HAZARD DATA**

Not applicable to intact lamp. **WARNING!** These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes when envelope is broken unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken are available commercially.

Breakage of the outer envelope may result in some exposure to the phosphor powder dust. 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 or large quantities of lamps. The inner envelope is composed of quartz. Breakage of this envelope may result in some exposure to elemental mercury vapor. As with the phosphor powder, no adverse effects are expected from occasional exposure to broken lamps. As a matter of good practice, breakage should be avoided. Prolonged or frequent exposure to broken envelopes should be avoided through the use of adequate ventilation during disposal of large quantities of lamps.

**EMERGENCY AND FIRST AID PROCEDURE:** Normal first aid procedure for glass cuts if such occur through lamp breakage.

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## **SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE**

Normal precautions should be taken for the collection of broken glass.

**WASTE DISPOSAL METHOD:** The arc tube contains a small amount of mercury.

A toxic characteristic leachate test conducted on based HID lamps for lead and/or mercury will cause the lamp to be classified as a hazardous waste for mercury and lead. These lamps will come under the Universal Waste Rule published by EPA on July 6, 1999. State regulations will vary. Check with local and state authorities. Philips Lighting Company recommends recycling of spent Mercury Vapor lamps. The lead used in the solder should pose little risk of exposure under normal use and handling.

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## **SECTION 8: CONTROL MEASURES**

**Respiratory Protection:** Appropriate dust mask should be used if large volumes of lamps are broken for disposal.

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

**Hand and Eye Protection:** Should be worn when disposing of lamps or handling broken glass.

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