



Philips Lighting Company

MATERIAL SAFETY DATA SHEET

Revised: 6/01

PRODUCT: SELF BALLASTED MERCURY VAPOR LAMPS

SECTION 1: MANUFACTURER

Manufacturer's Name and Address: Philips Lighting Company
A Division of Philips Electronics
North America Corporation
200 Franklin Square Drive
P.O. Box 6800
Somerset, NJ 08875

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

SECTION 2: HAZARDOUS INGREDIENTS

| | OSHA PEL | ACIH TLV | PERCENTAGE |
|---|-----------------------|---|------------------------|
| Mercury (7439-97-6) | .05 mg/m ³ | .05 mg/m ³ | less than .03% by wgt. |
| Yttrium Vanadate Phosphor (nuisance dust) | 15 mg/m ³ | 10 mg/m ³ | less than .3% by wgt. |
| Vanadium* As V ₂ O ₅ (1314-62-1) | .1 mg/m ³ | .05 mg/m ³ | less than .12% by wgt. |
| Yttrium* (7440-65-6) | 1.0mg/m ³ | 1.0 mg/m ³ | less than .08% by wgt |
| Lead+ (7439-92-1) | .05 mg/m ³ | less than .1 mg/m ³ (10 hr TWA) | less than 5% by wgt. |



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SECTION 2: HAZARDOUS INGREDIENTS (cont'd)

| | OSHA PEL | ACIH TLV | PERCENTAGE |
|---|----------|----------|-----------------------|
| Inert ingredients (Glass, Quartz, Metal) | | | approx. 99.7% by wgt. |

- * Bound in molecular matrix of complex compound.
- Mainly bound in glass bulb.

SECTION 3: PHYSICAL DATA

THIS ITEM IS A GLASS LIGHT BULB; CHEMICAL CHARACTERISTICS ARE NOT APPLICABLE.

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.

SECTION 5: REACTIVITY DATA

Stability: Lamp is stable
Incompatibility: Glass will not react with Hydrofluoric Acid
Polymerization: Will not occur

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 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.



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SECTION 6: HEALTH HAZARD DATA(cont'd)

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 of 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 for glass cuts if such occur through lamp breakage.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

Normal precautions should be taken for collection of broken glass.

WASTE DISPOSAL METHOD: Under Toxicity Characteristic Leachate Procedure (TCLP) promulgated by the U.S. Environmental Protection Agency (EPA), tests of used or spent fluorescent, incandescent, and high intensity discharge lamps indicate that some types of these lamps may be classified as characteristic hazardous waste due to mercury or lead content.

A toxic characteristic leachate procedure(TCLP) conducted on based HID lamps for lead could cause the lamp to be classified as a hazardous waste. The lead used in the solder should pose little risk of exposure under normal use and handling. Under the Universal Waste Rule mercury and lead containing lamps which fail the TCLP must be recycled or handled as hazardous waste. Regulations vary from State to State. Check with your State Authorities for guidance. There are some exemptions which also vary depending on your status, volume and location, this also should be checked with State Authorities.

Customers should review their waste handling practices to assure that they are properly disposing of waste lamps. Philips Lighting encourages recycling.



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SECTION 8: CONTROL MEASURES

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

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

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



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