

## LAMP MATERIAL INFORMATION SHEET

### MERCURY VAPOR LAMPS

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#### MATERIAL SAFETY DATA SHEET (MSDS)

##### Information and Applicability

The Material Safety Data Sheet (MSDS) requirements of the Occupational Safety and Health Administration (OSHA) for chemicals are **not** applicable to manufactured articles such as lamps. No material contained in a lamp is released during normal use and operation.

The following information is provided as a service to our customers. This Lamp Material Information Sheet contains the Material Safety Data Sheet information that is applicable.

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#### **SECTION 1: PRODUCT IDENTIFICATION**

Trade Name: SATCO HYGRADE

- This data sheet covers all SATCO HYGRADE brand Mercury Vapor lamps for general lighting applications.

SATCO Products, Inc.  
110 Heartland Blvd.  
Brentwood, NY 11717

Phone: (800) 437-2826 or (631) 243-2022

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#### **SECTION 2: LAMP MATERIALS AND HAZARDOUS INGREDIENTS**

THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE INTACT. If a lamp is broken, some of the following materials may be released:

Chemical Name	CAS Numbers	% by Wt.	Exposure Limits in Air (mg/m <sup>3</sup> )	
			ACGIH(TLV)	OSHA (PEL)
(1.2) Lead Solder (as Pb)	7439-92-1	<0.6	<0.15	<0.05
(1) Mercury	7439-97-6	<0.029	<0.025	<0.1
Quartz Fused	60676-86-0	<7.4	<0.1	<0.1
(1.2) Glass (Lead Borosilicate)	---	<74.5	<10 (3)	<15 (3)
(1.2) Glass (Lead Oxide, %6)	1317-36-8	---	<0.15	<0.05
Yttrium Vanadate	13566-12-6	0.27	<1	<1

- 1) These chemicals are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
  - 2) The lead in this product is one of the substances known to the state of California to cause reproductive toxicity if ingested. California Safe Drinking Water and Toxic Enforcement Act of 1986.
  - 3) Limits as nuisance particulate
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### **SECTION 3: PHYSICAL/CHEMICAL PROPERTIES**

Not Applicable to Intact lamp.

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### **SECTION 4: FIRE AND EXPLOSION HAZARDS**

Not applicable. Under extreme high temperatures, the glass might melt or crack.

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### **SECTION 5: REACTIVITY DATA**

Stability: Lamp is stable.

Incompatibility: None for intact lamp.

Hazardous Polymerization: Will not occur..

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### **SECTION 6: HEALTH HAZARDS**

EXPOSURE TO INTACT LAMPS DOES NOT POSE ANY KNOWN HEALTH HAZARDS. No adverse effects are expected from occasional exposure to broken lamps. As a matter of good practice, avoid prolonged or frequent exposure to broken lamps unless there is adequate ventilation. The major hazard from broken lamps is the possibility of sustaining glass cuts.

EFFECTS OF OVEREXPOSURE TO BROKEN LAMPS BY INHALATION, INGESTION, OR CONTACT (SKIN OR EYE):

Lead – Ingestion and inhalation of lead dust or fume must be avoided. Irritation of the eyes and respiratory tract may occur. Excessive lead absorption is toxic and may include symptoms such as anemia, weakness, abdominal pain, and kidney disease.

Mercury – Exposure to high concentrations of vapors for brief periods can cause acute symptoms such as pneumonitis, chest pains, shortness of breath, coughing, gingivitis, salivation and possible stomatitis. May cause redness and irritation as a result of contact with skin and/or eyes.

Quartz Fused – Fibrosis of the lungs causing shortness of breath and coughing has been associated with silica exposure.

Glass – Glass dust is considered to be physiologically inert and as such has an OSHA exposure limit of 15 mg/cubic meter for total dust and 5 mg/cubic meter for respirable dust.

Yttrium Vanadate – Inhalation of vanadium compounds can cause irritation of the nose, throat, and respiratory tract. Eye contact and prolonged, repeated skin contact may also cause irritation. Studies of workers exposed to this material showed no evidence of chronic or systemic effects.

EMERGENCY FIRST AID:

Glass cuts: Perform normal first aid procedures. Seek medical attention as required.

Inhalation: If discomfort, irritation or symptoms of pulmonary involvement develop, remove from exposure and seek medical attention.

Ingestion: In the unlikely event of ingesting a large quantity of material, seek medical attention immediately.

Contact Skin: Thoroughly wash affected area with mild soap or detergent and water and prevent further contact. Seek medical attention as needed.

Contact Eye: Wash eyes, including under eyelids, immediately with copious amount of water for 15 minutes. Seek medical attention.

CARCINOGENIC ASSESSMENT (NTP ANNUAL RFEPORT. IARC MONOGRAPHS, OTHER):  
None

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

If lamps are broken, ventilate area where breakage occurred. Clean-up by vacuuming or other method that avoids dust generation. Take usual precautions for collection of broken glass. Place materials in closed containers to avoid generating dust.

It is the responsibility of the waste generator to ensure proper classification of waste products. To that end, TCLP tests should be conducted on all waste products, including this one, to determine the ultimate disposition in accordance with applicable federal, state and local regulations.

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**SECTION 8: CONTROL MEASURES**

Ventilation: Use adequate general and local exhaust ventilation to maintain exposure levels below the PEL or TLV limits. If such ventilation is unavailable, use respirators as specified below.

Respiratory protection: Use appropriate NIOSH approved respirator if airborne dust concentrations exceed the pertinent PEL or TLV limits. All appropriate requirements set forth in 29 CFR 1910.134 should be met.

Eye Protection: OSHA specified safety glasses, goggles or face shield are recommended for dealing with broken lamps.

Protective clothing: OSHA specified gloves are recommended for dealing with broken lamps.

Hygienic practices: After handling broken lamps, wash hands thoroughly before eating, smoking or using toilet facilities.