

LAMP MATERIAL INFORMATION SHEET

MATERIAL SAFETY DATA SHEETS (MSDS)

Information and Applicability

The Material Safety Data Sheet (MSDS) requirements of the Occupational Safety and Health Administration (OSHA) for chemicals do not apply to manufactured articles such as lamps. During normal use and operation no materials contained in a lamp are released.

The following contains applicable Material Safety Data Sheet Information

I. LAMP MATERIALS AND HAZARDOUS INGREDIENTS

- A. GLASS AND METAL: Double-ended or Pin-based Quartz lamps are made of a tungsten wire filament surrounded by a quartz glass envelope. The lamp is filled with an iodine or bromine gas. Some quartz lamps have a ceramic base at one or both ends. The Quartz Halogen lamp contains support wires or wires for electrical connections that are made from iron, copper, nickel and/or molybdenum.

II. HEALTH CONCERNS

Iron, copper, nickel, molybdenum, and tungsten are considered hazardous materials, but because of their low toxicity and form, they do not present a hazard.

III. DISPOSAL CONCERNS

TCLP: The test performed on pin-based or double-ended quartz halogen lamps does not classify the lamps as hazardous waste. The lead used in the solder poses little risk of exposure under normal handling and use, although the TCLP test may classify the lamp as hazardous waste for the lead. Disposal of large quantities of these lamps may be regulated by state and/or local regulations. To check state regulations or to locate a recycler, go to <http://www.lamprecycle.org>. In many cases these lamps are new using silver solder which is not known to present a hazard.