

LAMP MATERIAL INFORMATION SHEET DOUBLE-ENDED OR PIN-BASED HALOGEN LAMPS

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.

SECTION 1: PRODUCT IDENTIFICATION

Trade Name: SATCO

- This data sheet is inclusive of all Double-ended or Pin-based halogen SATCO brand lamps for general lighting applications.

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SECTION 2: LAMP MATERIALS AND HAZARDOUS INGREDIENTS

Glass

These Double-ended or Pin-based Halogen lamps are composed of a quartz glass envelope surrounding a tungsten wire filament. The bulb contains iodine or bromine halogen gas.

Metals

Double-ended or Pin-based Halogen lamps are manufactured with a ceramic base at both ends (Double-ended) or at one end (Pin-based), which is secured in place by high-temperature cement. The quartz glass envelope may be clear or diffused in appearance. In addition to the tungsten lamp filament, Double-ended or Pin-based Halogen lamps are manufactured using support wires made from molybdenum, copper, iron, and/or nickel for electrical connections.

SECTION 3: PHYSICAL/CHEMICAL PROPERTIES

Not Applicable to Intact lamp.

SECTION 4: FIRE AND EXPLOSION HAZARDS

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

SECTION 5: REACTIVITY DATA

Stability: Stable
Incompatibility: None for intact lamp
Hazardous Polymerization: Not applicable

SECTION 6: HEALTH HAZARDS

Exposure to intact lamp does not pose any known health hazards.

Glass

Take normal care with broken glass.

Health Concerns

Tungsten, molybdenum, copper, iron, and nickel are all considered hazardous chemicals, but because of their form or relatively low toxicity, do not present a hazard.

SECTION 7: DISPOSAL CONCERNS

Take normal precautions for broken glass. Avoid generating dust; personal protective equipment may be needed.

TCLP

A Toxicity Characteristic Leaching Procedure (TCLP) test conducted on Double-ended or Pin-based lamps would not cause the lamps to be classified as hazardous waste. You should review your waste handling practices to assure that you dispose of waste lamps properly and contact your state environmental department for any regulations that may apply. Note most SATCO brand halogen lamps are manufactured in compliance with RoHS standards.