

# HALOGEN LAMPS - SINGLE ENDED

## MATERIAL SAFETY DATA SHEET



### 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 information in this document is provided as a courtesy and is intended to provide relevant information in the event the articles it covers are encountered during unintended, or abnormal, circumstances.

### SECTION 1: PRODUCT IDENTIFICATION

**TRADE NAME(S):** SUPERIOR LIFE® / ENVIRO-LUME™ / ENVIRO-LUME IR™

This data sheet is inclusive for all single ended, screw based halogen lamps for general lighting applications.

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### SECTION 2: LAMP MATERIALS AND INFORMATION ON INGREDIENTS

THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE INTACT.

#### LAMP ASSEMBLY:

**Glass** - These lamps are manufactured with standard lime glass envelope or a heat - resistant glass and the burner is composed of a quartz glass envelope surrounding a tungsten wire filament. The bulb contains iodine or bromine halogen gas.

**Diffusing Material** - If the coating is on the interior of the lamp, it is either specially prepared Kaolin clay (Frosted, Standard or Soft-White lamps). If the coating is on the exterior of the lamp, it consists of a fired glass material containing a suitable pigment.

**Metals** - In addition to the tungsten lamp filament, other wires made from molybdenum, copper, iron, and/or nickel are used as support wires or for electrical connections. Lamp bases may be either brass or aluminum and contain a lead solder.

### SECTION 3: PHYSICAL/CHEMICAL PROPERTIES

Not applicable to intact lamp. These items are light bulbs in various shapes, configurations, and designs. All contain a light emitting discharge tube or capsule (composed of quartz or hard glass, and metal components with a bromide fill gas). For many products this discharge capsule is housed within a glass envelop (bulb) with a metal base (usually aluminum, brass or plated metal pins) for use in various lamp sockets.

### SECTION 4: FIRE AND EXPLOSION HAZARDS

Not applicable to an intact lamp. Under extreme heat the outer glass envelope may melt or crack.

### SECTION 5: REACTIVITY DATA

Not applicable to an intact lamp.

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### SECTION 6: HEALTH HAZARDS

Not applicable to an intact lamp. Breakage of the discharge capsule, or the lamp and its discharge capsule, may result in some exposure to the bromide fill gas. No adverse effects are expected from occasional exposure to broken lamps, but as a matter of good practice, prolonged exposure should be avoided through the use of adequate ventilation during the disposal of large quantities of lamps.

These lamps do get very hot when operating and may pose a burn hazard – Do not touch the lamp while it is operating. Allow the lamp to cool down sufficiently before removing it from its fixture.

If the outer bulb breaks, the inner discharge capsule may continue to operate. Turn off or disconnect power to the fixture and allow the lamp to cool down sufficiently before attempting to remove it from the fixture.

**Glass** - Take normal care with broken glass. Apply normal first aid for glass cuts if such should occur through lamp breakage.

### SECTION 7: LAMP DISPOSAL PROCEDURES

When replacing a lamp, be sure the power to the socket is turned off and lamp has cooled before removing old lamp.

Take usual precautions for broken glass. Place materials in closed containers to avoid generating dust.

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.

These lamps do not contain any materials that would subject them to special transportation or disposal requirements.

### SECTION 8: CONTROL MEASURES

**Respiratory Protection** - None. NIOSH-approved respirator should be used if large quantities of lamps are being broken for disposal.

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

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

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