



MATERIAL SAFETY DATA SHEET

Product: Incandescent Lamps

SECTION 1: MANUFACTURER

Manufacturer's Name and Address: Halco Lighting Technologies
2940 Pacific Drive
Norcross, GA 30071
Telephone: 770-242-3609
Fax: 770-242-3615

SECTION 2: HAZARDOUS INGREDIENTS

Glass & Metal

The lamp is composed of a standard heat-resistant glass envelope surrounding a tungsten filament. Depending on lamp type and color traces of additional elements may be added to the glass to adjust its properties. The quantities of elements added are minimal and deemed to be non-hazardous. The envelope may also be coated with a diffusing material.

Diffusing Material

Coating on the interior of the lamp is typically specially prepared Kaolin clay, or in certain instances a combination of Kaolin clay and a pigment to create colored lamps. If the diffusing material is coated on the exterior of the lamp it consists of a fired glass material containing the suitable pigments.

Metals

As stated above, the lamp filament is composed of tungsten. In addition to this tungsten, there may also be molybdenum, copper, iron and/or nickel depending on the lamp construction used as support wires or for electrical connections. Lamp bases may include brass, nickel and/or aluminum. Lead solder may also be used.

SECTION 3: PHYSICAL CHEMICAL CHARACTERISTICS

Not applicable. This item is a light bulb.

SECTION 4: FIRE AND EXPLOSION DATA

Fire and explosion data: Not applicable

Under extreme heat the glass envelope might melt or crack.

SECTION 5: REACTIVITY DATA

Chemical Stability:	Lamp is stable without acids
Incompatibility to other substances:	None
Hazardous Decomposition Products:	None known
Hazardous Polymerization:	Will not occur

SECTION 6: HEALTH HAZARD DATA

For the intact lamp: Not applicable

Tungsten, molybdenum, copper, iron, nickel and clay are all considered to be hazardous chemicals, but due to their form or relatively low toxicity, do not present a hazard to humans. Neither do the pigments used in the coatings due to the insolubility of the glass coating.

EMERGENCY FIRST AID: NORMAL FIRST AID PROCEDURE 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.

SECTION 8: PROTECTIVE MEASURES

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