

BULBRITE®

Material Safety Data Sheet (MSDS) Incandescent Lamp Safety Specifications

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PRODUCT IDENTIFICATION -Bulbrite incandescent lamps.

INFORMATION AND APPLICABILITY

Bulbrite believes that under the Occupational Safety and Health Administration (OSHA) Hazards Communications Standard, a lamp (light bulb) is exempted as an "Article", and that as such, does not require an MSDS. The original OSHA Standard defined an article as something that: 1) It is formed to a specific shape and design, 2) It has end use functions dependent upon its shape and design, and 3) It does not release or otherwise result in an exposure to a hazardous chemical under normal conditions of use. In February 1994, OSHA amended the Hazard Communication Standard and modified part 3 of the above to read 3) It does not release more than very small quantities of hazardous chemical under normal conditions of use. State and local regulations also contain similar exemptions for such articles. Materials contained in the lamp are not released during normal use and operation. The following information is provided as a courtesy to our customers.

COMPOSITION / INFORMATION ON 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 Number	Hazard	Exposure Limits in Air(mg/cubic m)	
			ACGIH (TLV)	OSHA (PEL)
Glass (Soda Lime)		Respiratory Irritant	10.0	15.0 ⁽²⁾
Solder (Sb/Sn)				
Antimony (Sb)	7440-36-0	Toxic	0.5	0.5
Tin (Sn)	7440-31-5	Respiratory Irritant	2.0	2.0
^(1,3) Lead Glass (as Pb)	7439-92-1	Toxic	0.05	0.05
Aluminum (as dust)	7429-90-5	Respiratory Irritant	10.0	10.0
Copper (as dust)	7440-50-8	Respiratory Irritant	1.0	1.0
Phenolic resin	----	Physical Irritant	----	----

⁽¹⁾ This chemical is 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⁾ Limits as nuisance particulate.

⁽³⁾ 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 (Proposition 65).]

PHYSICAL PROPERTIES -Not applicable to intact lamp.

EXPLOSION HAZARDS

Flammability: Non-combustible

Fire Extinguishing Materials: Use extinguishing agents suitable for surrounding fire.

Special Firefighting Procedure: Use a self-contained breathing apparatus to prevent inhalation of dust and/or fumes that may be generated from broken lamps during firefighting activities.

Unusual Fire and Explosion Hazards: When exposed to high temperature, toxic fumes may be released from broken lamps.

REACTIVITY DATA

Stability:	Lamp is stable.
Conditions to avoid:	None for intact lamps.
Incompatibility(materials to avoid):	None for intact lamps.
Hazardous decomposition products:	None for intact lamps.
Hazardous polymerization products:	Will not occur.

HEALTH CONCERNS

THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE INTACT. 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. Lead dust or fumes may cause irritation of the eyes and respiratory tract. Excessive lead absorption can be toxic and may include symptoms such as anemia, abdominal pain, and kidney disease. However, the chemical inertness and insolubility of this material is expected to reduce the potential for systemic lead toxicity.

All other components of this product do not pose a significant risk of respiratory and/or physical 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 as needed.

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 REPORT, IARC MONOGRAPHS, OTHER): None

PROCEDURE FOR DISPOSAL OF LAMPS

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.

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 thoroughly before eating, smoking or using toilet facilities.

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In case of questions, please call:
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