

Material Safety Data Sheet

LED Fixtures

Brilliance LED

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 items such as LED lamps. No material included in a LED lamp is released during normal use and operation.

The following information is provided as a service to our customers.

SECTION 1: IDENTIFICATION

Brilliance LED

7202 East Cave Creek Road, Suite 3A

PO Bo 2281

Carefree, AZ 85377

1-800-867-2108

Product Name: LED Lamps

SECTION 2: HAZARDS IDENTIFICATION

Brilliance LED lamps are electronic devices. With proper use and care, they do not have any health or safety hazards.

For product applications, please see individual product specifications at:
<http://www.brillianceled.com/prg-2015-letter.pdf>

This MSDS does provide information to our customers about hazards that may result if the products are damaged, broken, scraped, or reduced in size by mechanical means or if the products are used in any other improper manner.

NFPA Rating: Health 1 Fire 0 Reactivity 0

Effects of Overexposure:

Skin Exposure: Minor cuts and/or abrasions may occur if product is broken and comes into

contact with skin. Damage to the product can result in exposure to electrical hazards.

Eye Exposure: Injury may occur if product is changed or damaged resulting in lengthy direct exposure to the eyes of unfiltered light from LEDs.

This article is inert under most conditions including those most likely to be present in a fire or other emergency situation. Broken pieces of the article may form sharp edges and thereby cause lacerations if not handled properly.

Inhalable dust and particulates may be generated if fixture components are pulverized. As with any particulate matter, respirable particles may cause mechanical irritation of the respiratory tract.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components: Glass, Metal, LED, Electronic Driver, Plastics

SECTION 4: FIRST AID MEASURES

There are no known health hazards from exposure to lamps that are intact. No adverse effects are expected from occasional exposure to broken lamps. If the lamp is broken and the LEDs are exposed, do not look directly into the LEDs. The major hazard from broken lamps is the possibility of sustaining cuts from the glass and eye injury if you look directly into exposed LEDs when emitting light.

Eyes: Not Applicable

Skin: Wash with soap and water. Treat lacerations using standard first aid procedures. Seek medical attention.

Inhalation: Not Applicable

SECTION 5: FIRE FIGHTING MEASURES

Not Applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Pieces of broken fixture components may form sharp edges and fine particulate matter can be created. Sweep up loose material while wearing eye protection, respiratory protection, and gloves as needed to prevent irritation and/or lacerations. Place gathered material in an impermeable container and label appropriately.

SECTION 7: HANDLING & STORAGE

Use care and common sense when handling LED lamps.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

If a fixture is damaged in a manner where direct exposure to the LED light emissions is possible and can cause uncomfortable lighting levels, remove power from the fixture, and repair or replace the damaged portion before returning it to service.

If any materials are to be processed in such a manner as to create particulates (mechanical breaking as part of end of product life disposal and recycling), use exhaust ventilation and/or wet working methods to minimize release of particulate to workroom air and employee breathing zone

Personal Protection:

Respiratory: None required under normal use conditions. Appropriate local ventilation or an air purifying respirator should be used if the articles are being abraded or reduced in size using mechanical methods.

Skin Protection: Rubber/neoprene or other impermeable gloves should be worn if risk of breakage is present.

Eye/Face Protection: Wear safety glasses with side shields to avoid chance of product getting into unprotected eye. If service personnel need to work with an energized fixture without light diffusers and filters installed, appropriate light filtering eye wear should be used.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Boiling Point: None

Volatile by Weight: <0.01%

Sublimes at: ~500°C

Vapor Pressure: Negligible at room temp.

Evaporation Rate: 0

Vapor Density: Negligible at room temp.

Solubility in Water: Insoluble.

Density: Not applicable

Appearance: Solid

Odor: None

SECTION 10: STABILITY & REACTIVITY

Stable and no reactivity.

SECTION 11: TOXICOLOGICAL INFORMATION

Carcinogenicity: Some components within the power supply of the LED FIXTURE may contain carcinogens listed by IARC, but these quantities typically are well below 0.1% of the total product weight.

SECTION 12: ECOLOGICAL INFORMATION

Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal must be in compliance with all Federal, local and state laws and regulations. Local requirements may be more stringent than regional or national requirements. Most electronic products should be recycled whenever practical.

SECTION 14: TRANSPORT INFORMATION

This material is not classified as a hazardous material or dangerous good by the U.S. Department of Transportation, the International Air Transport Association, or the International Civil Aviation Organization.

SECTION 15: REGULATORY INFORMATION

LED lamps do not contain materials that subject them to any regulatory requirements.

SECTION 16: OTHER INFORMATION

1st Version - Prepared May 2015

DISCLAIMER

The information set forth herein is presented in good faith and believed to be correct. Brilliance LED, however, makes no representations as to the completeness or accuracy thereof. The purchaser is solely responsible for compliance with all applicable laws and regulations

concerning the use of this product. Brilliance LED assumes no liability or responsibility for its use.