

# LED LAMPS

## 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®

This data sheet is inclusive of all color temperatures (CCT), lamp shape, base types and wattages for general lighting applications.

#### MANUFACTURER: P.Q.L., INC.

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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, Plastic and/or Metal** - The glass is made from soda lime similar to that used throughout the glass industry for other common consumer items. The Plastic lens used is PMMA. The body or heat sink is aluminum. The lighting components are LED. None of these materials would present a potential hazard in the event of breakage of the lamp, aside from the hazard due to broken glass.

### SECTION 3: PHYSICAL/CHEMICAL PROPERTIES

Not applicable to intact lamp. These light bulbs come in various shapes, configurations, and designs. All contain solid-state light emitting diodes (LEDs) as the light-generating source. These LEDs are contained within various bulb types and shapes that may be constructed of aluminum, glass, plastic, or a combination of these materials. Some products also contain circuitry to energize the LEDs. All lamps are fitted with a metal base or pins for installation in appropriate lighting fixtures. These bases are generally comprised of aluminum, nickel-plated tin, nickel-plated brass, plastic or a combination of these materials.

### SECTION 4: FIRE AND EXPLOSION HAZARDS

Not applicable to an intact lamp. If subjected to extreme heat, the LED light output would degrade and fail, the glass, and plastic (if present), components of the lamp may crack or melt.

### 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 lamp may result in exposure to electrical shock hazards if the lamp is still installed in a fixture.

No adverse health 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 become warm while operating, however they do not pose a burn hazard.

If the outer bulb breaks, the inner discharge capsule may continue to operate. Disconnect, or turn off, power to the lamp fixture and allow the lamp to cool down sufficiently before attempting to remove it from the fixture. Normal precautions should be taken when handling any broken lamp components.

Emergency and First Aid Procedures: Apply normal first aid for lacerations if such should occur when handling broken lamps.

### SECTION 7: LAMP DISPOSAL PROCEDURES

Take usual precautions for broken glass. Place materials in closed containers to avoid generating dust. These lamps do not contain any materials that would subject them to special waste 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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