

Safety Coating Compliance Documentation

UL EPH Certification (UL File No. SA12675) and as a UL Recognized Safety Coating (UL File No. SA10645).

If in the rare case that an **EncapSulite®** safety coated lamp is broken, virtually all of the glass, mercury and phosphors are contained inside the high temperature, high mechanical strength **EncapSulite®** coating. Employees, products and manufacturing sites are totally protected. Disposal or recycling is safe and easy.

If an unprotected lamp is broken during maintenance, lamp changes or accidentally, your employees, food products, equipment and employees can be exposed to broken glass, phosphors and mercury. Disposal of broken glass requires the handling of unprotected glass shards and other chemicals.

The **EncapSulite®** Pro-Guard Safety Coating also offers the additional benefit of blocking all UV transmission between 0 and 380 nanometers. The EncapSulite Ultra-Guard safety coating transmits UV.

LLD Lamp Lumen Depreciation The unique patented **EncapSulite®** PET safety coating reduces light (lumen) output by approximately 1% when compared to an uncoated lamp.

EncapSulite purchases all of our linear fluorescent lamps from major NEMA manufacturers. The mercury content of the lamps that we safety coat has been reported and is on file with IMERC Interstate Mercury Education & Reduction Clearinghouse.

EncapSulite's Safety Coating are in compliance with all FDA USDA OSHA regulations.

Sanitation Requirements for Meat and Poultry Establishments Chapter 5, Section 1 - USDA

USDA Lighting fixtures in rooms where exposed meat or poultry is handled should ensure maximum safety, to preclude contamination of products with broken glass and prevent collection of dirt, product and debris on lamp surfaces.

FDA Plant Construction and Design 110.20 Section B, Part 5

FDA Food Processing - provide safety-type light bulbs, fixtures, skylights, or other glass suspended over exposed food in any step of preparation or otherwise protect against food contamination in case of glass breakage.

FDA Food Code Chapter 6, Section 202.11

FDA Food Service shielding of light bulbs helps prevent breakage. Light bulbs that are shielded, coated or otherwise shatter-resistant are necessary to protect exposed food, clean equipment, utensils and linens, and unwrapped single-use articles from glass fragments should the bulb break.

OSHA Hazard Bulletin 19970715

OSHA Potential Fire Hazard with Fluorescent Light Bulbs with Plastic Tubes - replace fluorescent light bulbs that were equipped with protective sleeve coverings and end caps with a shatterproof bulb that is easier to install, in order to eliminate this potential fire hazard.

EncapSulite International Inc. Underwriters Laboratories Inc. Phone Number (408) 985-2400
UL File No. SA10645 UL File No. SA12675

Contact: Sergio Juarez Project Engineer

Product Covered: Component Miscellaneous Refrigeration Equipment: Fluorescent Lamp Tubing, Series, shatterproof coating.

General Description of Material These plastic tubings are over fluorescent lamps in order to prevent the release of glass shards in case of impact. It is intended for indoor use only. Minimum wall thickness 0.2 MM/layer.

Material Modifications There shall be no changes in the formulation or composition of the material unless previously cleared through Underwriters Laboratories Inc.

Product Shatterproof Coating.

UL Marking Recognized Company name, File No.SA10645, or trademark **EncapSulite®** and product designation on shipping carton or finished product.

UL Marking UL EPH Classified NSF Criteria C-2 or FDA Food Code, Chapter 4.

Engineering Considerations (1) The product is identified in accordance with Marking given above. (2) The lamp tubing was evaluated for UL 94HB flammability test. Samples of the plastic tubing installed onto fluorescent lamp were subjected to this test. (3) The lamp tubing was subjected to a 0.75 ft-lb impact test per UL 471 Eighth Edition, Paragraph 21.4.

The engineer must consider need to investigate the part for other than flammability and impact such as electrical or mechanical properties, in accordance with applicable UL end-product standard or requirements outlined in the Standard for Polymeric Materials Use in Electrical Equipment Evaluations, UL 746C.

EncapSulite International Inc. takes great pride in being the ONLY safety coater in the United States able to provide a coating that is both UL-EPH Certified and UL Recognized. The UL-EPH certification and the UL Recognized component recognition for the coating insure that we are in compliance with all FDA, USDA and OSHA requirements.