

MATERIAL SAFETY DATA SHEET

FEP Coated Fluorescent Lamps

Customer Product Reference:

Fotolec Reference:

FEP Coated Linear UVA Fluorescent Lamps

Section 1: Manufacturer

Fotolec Technologies Ltd.
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Section 2: Lamp and Coating substance information:

OSHA PEL ACGIH TLV Percentage

Phosphor powder	As Fluoride	Mercury	Tungston TLV	Ceiling
2.5mg/m ³ 2.5mg/m ³ approx. 2% by wgt.	(13824-98-7)	(7439-97-6) 2/3.5 mg by wgt	5mg/m ³	8 hr. TWA

FEP Coating: Composition information on ingredients

Substance name:	CAS No.	Molecular formula	Classification to DSD	Classification to CLP	% (w/w)
1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1,2,2-tetrafluoroethene (FEP).	25067-11-2	(C ₃ F ₆ .C ₂ F ₄) _x	None	None	100

Section 3: Physical characteristics

This item is a coated Lamp. Physical Dims are defined by IEC Specifications, IEC 60081 & 61195

Section 4: Fire and explosion Data

Under extreme heat, the glass and Plastic coating envelope may crack or melt. Lamps that apply to this MHDS are coated with Perfluorinated Ethlene Propylene Copolymer (FEP). This has excellent thermal stability, good electrical insulation and chemical inertness, resistance to gas, and is Non-flammable.

Section 5: Stability - Reactivity

Stability: The coated lamp is stable.

Incompatibility: The glass and Coating will react with Hydrofluoric Acid.

Polymerization: Not applicable.

Section 6: Precautions for Safe Storage, Handling and Disposal

Storage conditions: No special precautions, Coated lamps are palletised, and should not be stacked, Product retains the Customer packaging, and therefore assumed that it is sufficient for the purpose of shipping and Normal handling.

Where the Glass and coating has fractured due to misuse, normal handling processes apply for collection of broken glass.

Waste Disposal Method: At the end of rated life. Approved recycling agents have collection points that will accept coated lamps. Fotolec encourages recycling of its products via approved waste carriers.

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Section 7: Emergency or First Aid:

Normal first aid procedure for glass cuts if such occurs.

Decomposition of FEP Material at elevated temperatures may evolve toxic gases, and cause polymer fume flu if inhaled. Processing temperature: < 400°C. Reacts with Molten alkali metals and interhalogen compound, will burn in an atmosphere of 95% oxygen when an ignition source is present, however FEP is self-extinguishing when the source is removed.

Section 8: Health and Safety Hazard- Warning

Wear protective eyewear in occupational situations and in close proximity to these lamps if lamps and coating is fractured. Failure to do so, may result in severe burns and long-term injury to the eyes. Certain medications and chemicals may increase your sensitivity to ultraviolet radiation. Consult your physician.

These lamps can be harmful to skin and eyes in situations where people are exposed for extended periods of time. Unshielded lamps should be installed at least 1200cms from people. Breakage of the lamp and fracture of the coating, may result in some exposure to the phosphor powder dust/and to elemental mercury vapour.

No adverse effects are expected from occasional exposure to broken lamps, but as a matter of good practice, prolonged or frequent exposure should be avoided through the use of adequate PPE & ventilation during disposal of large quantities of lamps.

Section 9: Control Measures

Respiratory Protection: None. An approved respirator should be used if large volumes of lamps are being broken for disposal.

Ventilation: Avoid inhalation of any airborne dust where the FEP is fractured and has exposed a broken lamp. Provide local exhaust when disposing large quantities of lamps.

Hand and Eye Protection: Appropriate PPE should be worn when disposing of lamps or handling broken glass.

Section 10: Regulatory information and Overview

The coated lamp is not classified as Hazardous under (EC) 1272/2008 [CLP]

As a product the lamps contain mercury. Toxic on inhalation, to aquatic organisms, may cause long term adverse effects in the aquatic environment, May cause harm to an unborn child.

These lamps emit (UV-A) therefore avoid Prolonged exposure.

When this lamp is removed from service, it is subjected to the current Toxic Characteristic Leaching Procedure (TCLP) prescribed by the Environmental Agency.

This test is used to determining whether an item is a hazardous waste or a non-hazardous waste under current definition. These lamps are determined as hazardous.

Lamp Coating: FEP is classified as non-hazardous under (EC) Regulation. Decomposition above 230 deg c may evolve toxic gases and cause polymer fume fever, if inhaled.

Fire fighting: wear self-contained breathing apparatus when entering danger area, Suitable Extinguishing media: Water, carbon dioxide, dry powder, Foam.

Coated Lamps are shipped in the manufacturer's original packaging are not regulated by air, truck or ocean shipment.

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