

1. Identification

Trade Name (as labeled):

Electrosect™ ILT Fluorescent Lamps

Manufacturer:

Brandenburg UK Limited
29 Navigation Drive, Hurst Business Park,
Brierley Hill, West Midlands, DY5 1UT,
United Kingdom

Emergency Contact:

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Technical Assistance:

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2. Hazard Identification



Not applicable to intact lamp.

Warning!

Broken lamps may expose glass fragments, traces of mercury, and other components that may be harmful if inhaled, or may cause eye and respiratory tract irritation.

3. Composition – Information on Ingredients

There are no known health hazards from exposure to lamps that are intact.

Component	% by Weight	CAS #	EC #	EC Classification
Glass	> 90			
Strontium borate, Europium doped	< 2	102110-29-2	301-028-8	
Metals	< 2			
Capping cement	< 2			
Krypton	< 0.1	7439-90-9	231-098-5	GHS04 H280 OSHA-H01
Argon	< 0.1	7440-37-1	231-147-0	GHS04 H280 OSHA-H01
Tungsten	< 0.1	7440-33-7	231-134-9	
Mercury	< 0.1	7439-97-6	231-106-7	Repr. 1B H360D GHS06 H330 GHS08 H372 GHS09 H410

4. Emergency and First Aid Procedures

Skin	Apply normal first aid for glass cuts if such occur through glass breakage.
Ingestion	In the unlikely event of ingestion of a large quantity of material, seek medical attention.
Inhalation	If discomfort, irritation or symptoms of pulmonary involvement develop, remove from exposure and seek medical attention.
Eyes	Wash eyes, including under eyelids, immediately with copious amounts of water for 15 minutes.
Remarks - First Aid	None.

5. Fire-Fighting Measures

Flammability	Non-Combustible.
Fire Extinguisher	Use extinguishing agents suitable for surrounding fire.
Hazardous Decomposition Products in Fire	Silicon dioxide, Aluminum oxides, Mercury oxides, Strontium oxide, Boric oxides, Europium oxides, Tungsten oxides, metal oxides.

6. Accidental Release Measures

Not applicable to intact lamp.

Spillage Procedure	Not applicable if lamp is in original state. If lamp is broken: ventilate area where breakage occurred. Clear up using special mercury vacuum cleaner or other appropriate agent for preventing vaporization. Take standard measures for clearing up broken glass and deposit in a lockable container.
Emergency Procedure	Not applicable.

7. Handling and Storage

Local Exhausting	Not applicable under normal circumstances.
Storage Conditions	No special precautions.
Storage Code	None.

8. Exposure Controls/Personal Protection

Exposure Limits:		C = Ceiling - S = Skin	
Glass		No MAC (STEL) has been laid down.	
Strontium borate, Europium doped		No MAC (STEL) has been laid down.	
Metals		No MAC (STEL) has been laid down.	
Capping cement		No MAC (STEL) has been laid down.	
Krypton / Argon		No MAC (STEL) has been laid down.	
Applicable to: Netherlands (20 °C : 1013 mbar)			
Tungsten		TLV:	5.8 mg/m3 (as inhalable dust)
Mercury		TLV:	0.02 mg/m3 (Women in the fertile age: consult the industrial safety officer)
Applicable to: Belgium (20 °C : 1013 mbar)			
Tungsten		TLV:	5.8 mg/m3
Tungsten		STEL:	10 mg/m3
Mercury	S	TLV:	0.02 mg/m3 (Women in the fertile age: consult the industrial safety officer)
Applicable to: Germany (20 °C : 1013 mbar)			
Tungsten		STEL:	5 mg/m3 (as inhalable dust)
Mercury	S	TLV:	0.1 mg/m3 (Women in the fertile age: consult the industrial safety officer)
Applicable to: USA (25 °C : 1013 mbar)			
Tungsten		TLV:	5.8 mg/m3
Tungsten		STEL:	10 mg/m3
Mercury	S	TLV:	0.025 mg/m3 (Women in the fertile age: consult the industrial safety officer)

Instructions Regarding Broken Lamps (Applies Only to broken lamps):	
Ventilation	Use both general and exhaust ventilation to maintain exposure levels below the Long or Short term limits. If such ventilation is not available, use respirators as specified below.
Respiratory Protection	European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.
Eye Protection	The use of safety glasses, goggles or face shields is recommended for handling broken lamps, as described in European Standard EN 166.
Protective Clothing	Wear appropriate protective clothing to prevent skin exposure.
Hygiene	After handling broken lamps, wash thoroughly before eating, handling tobacco products, applying cosmetics, or using toilet facilities.

9. Physical and Chemical Properties

Not Applicable for Lamps.

10. Stability and Reactivity

Not Applicable for Lamps.

11. Toxicological Information

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.

12. Ecological Information

Biological oxygen demand (5)	Not traceable.		
Chemical oxygen demand	Not traceable.		
Biological/chemical oxygen demand ratio	Not traceable.		
Degradability	Not traceable.		
Biochemical factor	>2500 Mercury	Source:	Supplier
Log Po/w	4.5 Mercury	Source:	Chemicalcards
Henry Constant	Not traceable.		
Ecotoxicity:			
Mercury	Fish	LC-50: 0.004 mg/l/96H	Source: Supplier
Mercury	Daphnia	EC-50: 0.0052 mg/l/48H	Source: Supplier
Mercury	Algae	IC-50: 0.3 mg/l/72H	Source: Supplier
Remarks on ecotoxicity:	None.		

13. Disposal Considerations

All fluorescent lamps contain some amount of mercury. All disposal options should be evaluated with respect to the requirements of the relevant local and national legislation.

Before disposing of waste lamps, check with the state, county, and/or local officials for current guidelines and regulations.

14. Transportation Information

ADR/RID	
UN-Number	2809 - Mercury in manufacturing articles
Class	8
Packing Group	III
Transport Emergency Card	80GC9-III
IMO	
UN-Number	2809 - Mercury in manufacturing articles
Class	8
Packing Group	III
Marine Pollutant	No
IATA/ICAO	
UN-Number	2809 - Mercury in manufacturing articles
Class	8
Packing Group	III

15. Regulatory Information

EC-Label	Not Applicable.
Remarks on EC-Labeling	None.

16. Other Information

This information is provided for health and safety assessments by an individual user.

Reference should be made to any relevant local or national health, safety, and environmental legislation.

This information does not constitute indication of suitability for specific uses.

Electrosect™ fluorescent lamps are exempted from the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) because they are “articles”.

This information is provided by Brandenburg UK Limited as a courtesy to its customers.

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