

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION/MANUFACTURER

<b>Supplier:</b>	PestWest USA LLC 7135 16th Street E, Suite 124 Sarasota, FL 34243
<b>Telephone No:</b>	Tel: 941 358 1983
<b>Tradename:</b>	PestWest Quantum BL Lamps
<b>General description:</b>	Quantum BL (UVA) lamps for insect light traps, which attract flying insects. See section 16 for operational life of lamps.
<b>Use:</b>	Flying insect attraction.
<b>Publication date:</b>	2/12/2018
<b>General information:</b>	www.pestwest.com
<b>Emergency phone number:</b>	Tel: +49 (0)9131-7930

## 2. HAZARDS IDENTIFICATION

**Classification:** Not classified.

Quantum BL lamps contain no materials in amounts considered to be hazardous to human health.

**Appearance:** Not applicable

**Physical state:** Solid

**Odor:** Odorless

GHS label elements and precautionary statements.

**Hazard statements:** Not classified.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

If a lamp is broken, the following materials may be released:

Component	% by weight	CAS No.	EC No.	EC Classification	
Glass	>90				
Strontium borate, europium-doped	<2	102110-29-2	310-028-8		
Krypton	<0,1	7439-90-9	231-098-5	R	R99
Argon	<0,1	7440-37-1	231-147-0	R	R99
Mercury	<0,1	7439-97-6	231-106-7	Repr. Cat.2	R61
				T+	R26
				T	R48/23
				N	R50/53
Tungsten	<0,1	7440-33-7	231-143-9		

## 4. FIRST-AID MEASURES

<b>Skin:</b>	Apply normal first aid for glass cuts, if such occur through lamp breakage
<b>Ingestion:</b>	In the unlikely event of ingestion of a large quantity of material, seek medical attention.
<b>Inhalation:</b>	If discomfort, irritation, or pulmonary symptoms emerge, move away from exposure and seek medical attention.
<b>Eyes:</b>	Immediately rinse eyes (including under eyelids) with abundant amounts of water for 20 minutes. Seek medical attention.
<b>Remarks for First Aid:</b>	None

## 5. FIRE-FIGHTING MEASURES

<b>Fire-extinguisher:</b>	Use extinguishing agents suitable for suppressing fire.
<b>Hazardous decomposition products in fire:</b>	silicon dioxide, aluminium oxides, mercury oxides, strontium oxide, boric oxides, europium oxides, metal oxide, tungsten oxides

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spillage procedure:</b>	Not applicable if lamp is in original state. If lamps are broken: ventilate area where breakage occurred. Clean-up using special Mercury vacuum cleaner or other appropriate agent for preventing vaporization. Use standard practices for cleaning-up broken glass and deposit in a locked container.
<b>Emergency procedure:</b>	No special precautions.
<b>Storage code:</b>	None

## 7. HANDLING AND STORAGE

<b>Local exhausting:</b>	Under normal circumstances not applicable.
<b>Storage conditions:</b>	No special requirements.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure limits:</b>			
Applicable to: Netherlands (20 °C; 1013 mbar)			
Glass			No MAC(STEL) has been laid down
Strontium borate, europium-doped			No MAC(STEL) has been laid down
Krypton/Argon			No MAC(STEL) has been laid down
Mercury		TLV:	0.05 mg/m <sup>3</sup> (Women in the fertile age: consult the industrial hygienist)
Mercury		STEL:	0.5 mg/m <sup>3</sup> (Women in the fertile age: consult the industrial hygienist)
Tungsten			No MAC(STEL) has been laid down
Metals			No MAC(STEL) has been laid down
Capping cement			No MAC(STEL) has been laid down
Applicable to: Belgium (20 °C; 1013 mbar)			
Mercury	S	TLV:	0.025 mg/m <sup>3</sup> S (Women in the fertile age: consult the industrial hygienist)
		TLV:	5 mg/m <sup>3</sup>
		STEL:	10 mg/m <sup>3</sup>
Applicable to: Germany (20 °C; 1013 mbar)			
Mercury	S	TLV:	0.1 mg/m <sup>3</sup> (Women in the fertile age: consult the industrial hygienist)
Tungsten		TLV:	5 mg/m <sup>3</sup> (as inhalable dust)
Applicable to: USA (25 °C; 1013 mbar)			
Krypton/Argon			No MAC(STEL) has been laid down
Mercury	S	TLV:	0.025 mg/m <sup>3</sup> (Women in the fertile age: consult the industrial hygienist)
Tungsten		TLV:	5 mg/m <sup>3</sup>
Tungsten		STEL:	10 mg/m <sup>3</sup>
C=Ceiling; S=Skin			
Remarks exposure limits			None
			Not traceable
<b>Advised personal protection:</b>			
Skin:			Not applicable
Eyes:			Not applicable
Inhalation:			Not applicable
<b>Instructions regarding broken lamps:</b>			
These instructions only apply to broken lamps.			
Ventilation:			Use both general and local exhaust ventilation to maintain exposure levels below the long and short term limits. If such ventilation is not available use the 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, (described in European Standard EN 166).
Protective clothing:	Wear appropriate protective clothing to prevent skin exposure.
Hygiene:	After handling broken lamps wash hands thoroughly before eating, handling tobacco products, applying cosmetics or using toilet facilities.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE:</b>	Article
<b>COLOR:</b>	Type dependent
<b>ODOR:</b>	Odorless
<b>VAPOR RATE/RANGE:</b>	Not applicable
<b>BOILING POINT/RANGE:</b>	Not traceable
<b>MELTING POINT/RANGE:</b>	> 480 °C
<b>FLASH POINT/RANGE:</b>	Not applicable
<b>EXPLOSIVE LIMITS:</b>	Not applicable
<b>DUST EXPLOSIONS POSSIBLE IN AIR:</b>	Not applicable
<b>DENSITY:</b>	Not traceable
<b>VAPOR PRESSURE:</b>	Not applicable
<b>SOLUBILITY IN WATER:</b>	Not applicable
<b>SOLUBILITY IN FAT:</b>	Not applicable
<b>pH:</b>	Not applicable
<b>VISCOSITY:</b>	Not applicable
<b>AUTOIGNITION TEMPERATURE:</b>	Not applicable
<b>DECOMPOSITION TEMPERATURE:</b>	Not traceable
<b>ELECTROSTATIC CHARGEMENT:</b>	Not traceable

## 10. STABILITY AND REACTIVITY

Product is stable under conditions described in section 7.	
Conditions to avoid:	None
Reactions with water:	No
Hazardous reactions:	None
Hazardous decomposition products at heating:	None

## 11. TOXICOLOGICAL INFORMATION

<b>Symptoms:</b>		
Skin:	Local	Not applicable
	General	Not applicable
Ingestion:	Local	Not applicable
	General	Not applicable
Inhalation:	Local	Not applicable
	General	Not applicable
Eyes:	Local	Not applicable
Remarks symptoms:	None	
Toxicity:	Not applicable	
Ames test:	Not applicable	

## 12. ECOTOXICOLOGICAL 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 (Hg). Properly dispose of waste lamps according to all local, State, and Federal Laws.

## 14. TRANSPORT INFORMATION

<b>ADR/RID</b>	
UN-number	2809 MERCURY IN MANUFACTURING ARTICLES
Class	8
Packing group	III
The product contains less than 1g of Mercury and box contains less than 30g of Mercury. Therefore goods are exempt from dangerous goods regulation, Subject to SP366. Not restricted Special Provision A69 section 1.2.11.	Transport emergency card 80GC9-III 80GC9-III
<b>IMO</b>	
UN-number	2809 MERCURY IN MANUFACTURING ARTICLES
Class	8
Packinggroup	III
Marine pollutant	No
<b>IATA/ICAO</b>	
UN-number	2809 MERCURY IN MANUFACTURING ARTICLES
Class	8
The product contains less than 1g of Mercury and box contains less than 30g of Mercury. Therefore goods are exempt from dangerous goods regulation, Subject to SP366. Not restricted Special Provision A69 section 1.2.11.	Packing group III

## 15. REGULATORY INFORMATION

EC-Label:	Not applicable
Remarks on EC-labeling	None

## 16. OTHER INFORMATION

Remarks on SDS:	Working of this product may release toxic dust. Toxic Mercury vapors can be released if the lamp is broken. These lamps emit Ultraviolet Radiation (UV-A). Avoid prolonged exposure. For transport exemption consult applicable regulations. The product contains <= 10 mg Mercury.
SDS content data provided by:	Feilo Sylvania Germany GMBH
Inner company references:	None
<b>Overview relevant R-sentences from all components in section 3.</b>	
R26	
R48/23	
R50/53	
R61	
R99	
Date last update:	02/12/2018
Lamp operational life:	14,000 hours or ~1.6 years.
Recommended lamp change:	8760 hours or 1 year (annually).