

MATERIAL/PRODUCT SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (modified by Regulation (EU) No. 453/2010)

1. Identification of the substance/preparation/manufacturer

MSDS	PestWest QBL LED 370nm T8 18" Tube
Supplier	Seoul Viosys Co., Ltd. 65-16, Sandan-ro 163beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea, 15429
Tradename	PestWest
General description	LED Lamp
Use	Insect attraction
Publication date	12-June-2024
Date last update	
General information	www.seoulviosys.com
Emergency phone number	+82 1566-2771

2. Hazard identification

Intact lamp to Generally harmless
adverse health effect:
Eyes: If exposed to ultraviolet radiation for a long time, could cause eye irritation, could cause corneal injury.
Skin: If UV Light should directly illuminate the skin, could cause skin irritation
Swallow: Swallow small amount by mistaken will not cause severe injury to health.
Inhalation: NA

3. Composition/information on ingredients

If the lamps are broken, the following materials may be released:

Component	% by weight	CAS No.	EC No.	EC Classification
1 Cap_ PC925U	5.24	111211-39-3		
2 Cover_ PMMA IF850	40.02	9011-87-4		
3 PC Box	1.96	25037-45-0, 13463-67-7,		
4 Varistor	0.24	1314-13-2, 14464-46-1, 1675-54-3, 7439-89-6, 7440-31-5		
5 Transformer	2.91	1309-37-1, 1317-35-7, 1314-13-2		
6 Electrolytic capacitor	1.41	7429-90-5, 9004-34-6, 107-21-1, 7704-34-9, 7429-90-5, 29154-49-2		
7 Wire	0.84	25067-11-2 , 7440-50-8, 7440-31-5 , 3520-72-7		
8 PCB_FR4	1.82	65997-17-3, 9002-84-0,		
9 Chip resistor	0.06	1344-28-1, 7440-02-0, 7440-31-5		
10 Rectifier bridge	2.95	7440-31-5, 14808-60-7, 7440-50-8, 29690-82-2		
11 SMT IC	0.17	7440-50-8, 7440-31-5, 231-130-8, 7440-22-4		
12 SMT capacitor	0.16	12047-27-7, 7440-22-4, 1314-23-4, 7440-05-3		
13 SMT diode	0.07	14808-60-7, 29690-82-2, 7440-50-8, 7440-31-5		
14 X2 capacitor	0.77			
15 CBB capacitor	0.52			
16 Inductor	2.44			
17 Fuse resistor	0.03			
18 Heatsink_ Al6063	26.77	7429-90-5, 7439-95-4		
19 Protective Sleeve_ PC+ABS	0.21	25037-45-0, 9003-56-9		
20 PCB_ Al1060	6.9	7429-90-5, 7440-50-8		
21 Solder paste	0.09	7440-31-5	231-141-8,	
22 LED	0.7			
23 Screw_ SUS304	0.28	7439-89-6, 7440-47-3, 7440-02-0		
24 LED Starter	2.1	64742-94-5		
25 Tinned copper wire	0.16	7440-50-8, 7440-31-5,		
26 Silicone Insulation	0.12	68951-99-5, 112945-52-5, 63148-62-9, 63148-58-3		
27 Connector metal _ Copper plate	0.07	7440-50-8 7440-66-6		
28 Copper Pins	0.84	7440-50-8 7440-66-6 7440-31-5		

29	Tin wire	0.08	7440-31-5 7440-50-8 7440-55-3	231-141-8 231-159-6		
30	PET paper	0.07	25038-59-9			

4. First-aid measures

Skin	Apply normal first aid for if UV Light should directly illuminate the skin
Ingestion	In case of accidental ingestion of a large amount of material, seek medical attention.
Inhalation	None
Eyes	If eyes exposed to ultraviolet radiation for a long time, Gently rinse the affected eyes under the eyelids, with clean water or physiological salt water for at least 15 minutes.
Remarks first aid	None

5. Fire fighting measures

Fire-extinguisher	None
Hazardous decomposition products in fire	silicon dioxide, aluminium oxides, nickel oxides, copper oxides, boric oxides,

6. Accidental release measures

Spillage procedure	Not applicable if lamp is in original state. If lamps are broken, take standard measures for clearing up.
Emergency procedure	not applicable

7. Handling and storage

Local exhausting	Under normal circumstances not applicable
Storage conditions	No special precautions
Storage code	none

8. Exposure controls/personal protection

Exposure limits :	
applicable to: Netherlands (20 °C; 1013 mbar)	
All materials:	No MAC(STEL) has been laid down
applicable to: Belgium (20 °C; 1013 mbar)	
All materials:	No MAC(STEL) has been laid down
applicable to: Germany (20 °C; 1013 mbar)	
All materials:	No MAC(STEL) has been laid down
applicable to: USA (25 °C; 1013 mbar)	
All materials:	No MAC(STEL) has been laid down
C=Ceiling; S=Skin	
Remarks exposure limits	none
Odour threshold (20°C; 1013 mbar)	not traceable
Advised personal protection	
skin	Protection in case of continuous operation at short range outside specified equipment.
eyes	Protection in case of continuous operation at short range outside specified equipment.
inhalation	not applicable
Instructions regarding broken lamps	
These instructions only apply to broken lamps	
Ventilation	None
Respiratory protection	None
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 cuts from sharp metal parts
Hygiene	After handling broken lamps wash thoroughly before eating, handling tobacco products, applying cosmetics or using toilet facilities.

9. Physical and chemical properties	
Physical state	article
Colour	colourless
Odour	odourless
Vapor rate/range	not applicable
Boiling point/range	not traceable
Melting point/range	> 140° c
Flash point/range	not applicable
Explosive limits	not applicable
Dust explosions possible in air	not applicable
Density	not traceable
Vapour pressure	not applicable
Solubility in water	not applicable
Solubility in fat	not applicable
pH	not applicable
Viscosity	not applicable
Autoignition temperature	>304° c
Decomposition temperature	not traceable
Electrostatic chargement	not traceable

10. Stability and reactivity	
Product is stable under conditions described in section 7	
Conditions to avoid	none
Reactions with water	none
Hazardous reactions	none
Hazardous decomposition products at heating	none

11. Toxicological information		
Symptoms		
Skin	local	not applicable
	genera	not applicable
Ingestion	local	not applicable
	genera	not applicable
Inhalation	local	not applicable
	genera	not applicable
Eyes	local	not applicable
Remarks symptoms		none
Toxicity		not traceable
Ames test		not traceable

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	not traceable		
Log Po/w	not traceable		
Henry Constant	not traceable		
Ecotoxicity:	not traceable		
Remarks on ecotoxicity	none		

13. Disposal considerations	
Before disposing of waste lamps check with state, country, and/or local officials for current guidelines and regulations. LED filaments contained within lamps may be considered as electronic waste in some states.	

14. Transport information		
ADR/RID		
	UN-number	N/A
	Class	N/A
	Packing group	N/A
	Transport emergency card	N/A
IMO		
	UN-number	N/A
	Class	N/A
	Packing group	N/A
	Marine pollutant	N/A
IATA/ICAO		
	UN-number	N/A
	Class	N/A
	Packing group	N/A

15. Regulatory information	
EC-Label	N/A
Remarks on EC-labeling	none

16. Other information	
Remarks on MSDS	These lamps emit Ultraviolet Radiation (UV-A). Avoid prolonged exposure. Skin and eye protection are recommended in case of continuous operation at short range outside the normal operating equipment.
Inner company references	none
Overview relevant H-phrases from all components in section 3	
H315	Causes skin irritation
H317	Can cause an allergic skin reaction
H318	Causes serious eye damage
H335	Can cause irritation of airways
H411	Toxic for waterborne organisms, with long-term consequences

The information provided in this Material/Product Safety Data Sheet is correct to the best of the knowledge, information and belief of Seoul Viosys Co., Ltd. at the date of its printing.