



SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

SDS : 28256
Product code 12nc : 9280 248 01029
Supplier : PHILIPS LIGHTING, EINDHOVEN
High Tech Campus 44
5656 AE Eindhoven
The Netherlands
Tradename : ACTINIC BL TL-D 15W/10 1SL/25

1.2. Relevant identified uses of the substance or mixture and uses advised against

General description : INSECT TRAP / BLUE LIGHT THERAPY
Use : Various
Uses advised against : Data not available.

1.3. Details of the supplier of the safety data sheet

Supplier safety data sheet : Philips Electronics Nederland B.V., P.O. Box 218, 5600 MD Eindhoven, Tel. +31 (0)40 2747588
Responsible department : dangerous.goods@philips.com

1.4. Emergency telephone number

Emergency telephone number : +31 (0)497-598315

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS: (EC) No 1272/2008

Not classified according to GHS classification.

EC: (EC) No 67/548 or 1999/45

Not classified according to EC classification.

2.2. Label elements

GHS: (EC) No 1272/2008

GHS-Label : not applicable

Remarks on GHS-labelling : none

EC: (EC) No 67/548 or 1999/45

EC-Label : not applicable

Remarks on EC-labelling : none

2.3. Other hazards

If applicable: see section 6.1 and section 7.1.

SECTION 3: Composition/information on ingredients

Component	CAS-no.	Index No.	Percentage(%)	GHS-Label
	EC-no.	Registration no.		EC-Label
GLASS	65997-17-3			
	266-046-0	01-2119990048-30		

Component	CAS-no.	Index No.	Percentage(%)	GHS-Label
	EC-no.	Registration no.		EC-Label
MERCURY	7439-97-6	080-001-00-0		GHS06
	231-106-7	01-2119548380-42		GHS08
				GHS09
				H330 Acute tox. 2
				H360D Repr. 1B
				H372 STOT RE 1
				H400 Aquatic acute 1
				H410 Aquatic chronic 1
				T+,N;R: 61 26 48/23 50/53
				Repr.Cat. 2
TUNGSTEN	7440-33-7			
	231-143-9	01-2119488910-30		
METALS				
FILLING GAS				GHS04
				H280 Press. gas - compressed
				EUHP99 Asphixiant
				R: 99
FLUORESCENT POWDER				
CAPPING CEMENT				

For the full text of the H-sentences, hazard statements and R-sentences mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin : Not applicable.
Ingestion : Not applicable.
Inhalation : Not applicable.
Eyes : Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Skin local : Not applicable.
 Skin general : Not applicable.
 Ingestion local : Not applicable.
 Ingestion general : Not applicable.
 Inhalation local : Not applicable.
 Inhalation general : Not applicable.
 Eyes local : Not applicable.
 Remarks symptoms : None

4.3. Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable fire-extinguisher

determined by surrounding

Unsuitable fire-extinguisher

not traceable

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in fire : silicon dioxide, mercury oxides, metal oxide, tungsten oxides

5.3. Advice for firefighters

In the event of fire, wear protective clothing and use breathing apparatus that is independent of the ambient air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Precautions

Use protective equipment. See section 8.

Emergency procedure

Is not to be expected.

6.2. Environmental precautions

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

6.3. Methods and material for containment and cleaning up

Spillage procedure

Not applicable if lamp is in original state. If lamp is broken: clear up using special mercury vacuum cleaner or other appropriate agent for preventing vaporisation. Take standard measures for clearing up broken glass and deposit in a lockable container.

6.4. Reference to other sections

See section 8 for appropriate personal protection.

See section 13 for additional information on waste treatment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Observe label precautions.

Local exhausting : Under normal circumstances not applicable.

Storage code (on behalf of PGS 15) : CT3

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : See also any precautionary statements and S-phrases in section 2.2.
No special precautions.

7.3. Specific end use(s)

Data not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

applicable to: The Netherlands (20 °C; 1013 mbar)

No TWA has been laid down.

TWA(8 hours): 0.02 mg/m3

No TWA has been laid down.

No TWA has been laid down.

No TWA has been laid down.

No TWA has been laid down.

No TWA has been laid down.

GLASS

MERCURY

TUNGSTEN

METALS

FILLING GAS

FLUORESCENT POWDER

CAPPING CEMENT

(Statutory threshold limit value)

applicable to: Belgium (20 °C; 1013 mbar)

TWA(8 hours): 0.02 mg/m3

TWA(8 hours): 5 mg/m3

TWA(15 minutes): 10 mg/m3

MERCURY

TUNGSTEN

TUNGSTEN

applicable to: Germany (20 °C; 1013 mbar)

TWA(8 hours): 0.1 mg/m3 S

TWA(8 hours): 5 mg/m3

MERCURY(Women in the fertile age: consult the industrial safety officer.)

TUNGSTEN(as inhalable dust)

applicable to: United States of America (25 °C; 1013 mbar)

TWA(8 hours): 0.025 mg/m3 S

TWA(8 hours): 5 mg/m3

TWA(15 minutes): 10 mg/m3

MERCURY(Women in the fertile age: consult the industrial safety officer.)

TUNGSTEN

TUNGSTEN

applicable to: Sweden (20 °C; 1013 mbar)

TWA(8 hours): 5 mg/m3

TUNGSTEN(as dust)

applicable to: Switzerland (20 °C; 1013 mbar)
 TWA(8 hours): 0.05 mg/m3 MERCURY(fume)
 TWA(15 minutes): 0.4 mg/m3 MERCURY(fume)

applicable to: China (20 °C; 1013 mbar)
 TWA(8 hours): 0.02 mg/m3 S MERCURY
 TWA(15 minutes): 0.04 mg/m3 S MERCURY
 TWA(8 hours): 5 mg/m3 TUNGSTEN
 TWA(15 minutes): 10 mg/m3 TUNGSTEN

applicable to: European Union (20 °C; 1013 mbar)
 TWA(8 hours): 0.02 mg/m3 MERCURY

C=Ceiling; S=Skin

Remarks exposure limits :
 none

DNEL (Derived No Effect Level)

Worker - Inhalation - Long term exposure - Systemic effects: 0.02 mg/m3	MERCURY	Source	: Chemicalcards
Worker - Inhalation - Long term exposure - Systemic effects: 5.8 mg/m3	TUNGSTEN	Source	: ECHA
Worker - Dermal - Long term exposure - Systemic effects: 1.7 mg/kg bw/day	TUNGSTEN	Source	: ECHA
Consumer - Inhalation - Long term exposure - Systemic effects: 1.7 mg/m3	TUNGSTEN	Source	: ECHA
Consumer - Dermal - Long term exposure - Systemic effects: 0.480 mg/kg bw/day	TUNGSTEN	Source	: ECHA
Consumer - Oral - Long term exposure - Systemic effects: 0.480 mg/kg bw/day	TUNGSTEN	Source	: ECHA

PNEC (Predicted No Effect Concentration)

Fresh water: 0.000057 mg/l	MERCURY	Source	: Chemicalcards
Marine water: 0.000067 mg/l	MERCURY	Source	: Chemicalcards
Fresh water: 0.338 mg/l	TUNGSTEN	Source	: ECHA
Marine water: 0.0338 mg/l	TUNGSTEN	Source	: ECHA
Intermittent releases: 0.310 mg/l	TUNGSTEN	Source	: ECHA
Sewage Treatment Plant (STP): 5.86 mg/l	TUNGSTEN	Source	: ECHA
Fresh water sediment: 960 mg/kg	TUNGSTEN	Source	: ECHA
Marine water sediment: 96 mg/kg	TUNGSTEN	Source	: ECHA
Soil: 2.17 mg/kg	TUNGSTEN	Source	: ECHA
Oral (food): 11 mg/kg	TUNGSTEN	Source	: ECHA

8.2. Exposure controls

Advised personal protection :

Hands : not applicable
 Breakthrough time : not applicable
 Eyes : not applicable
 Inhalation : not applicable
 Skin : none (when used normally)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: article		
Colour	: type dependent		
Odour	: odourless		
Odour threshold (20°C; 1013 mbar)	: not traceable		
pH	: not applicable		
Melting point/range	: >480 °C		
Boiling point/range	: not traceable		
Flash point/range	: not applicable		
Vapor rate/range	: not applicable		
Flammability (solid, gas)	: data not available		
Explosive limits	: not applicable		
Vapour pressure	: not applicable		
Density	: not traceable		
Solubility in water	: not applicable		
Log Po/w	: 4.5	MERCURY	Source : Chemicalcards
Autoignition temperature	: not applicable		
Decomposition temperature	: not traceable		
Viscosity	: not applicable		
Dust explosions possible in air	: not applicable		
Oxidising properties	: no		

9.2. Other information

Solubility in fat : not applicable
Electrostatic chargement : not traceable

SECTION 10: Stability and reactivity

10.1. Reactivity

See section 10.2 - 10.6.

10.2. Chemical stability

The substance or mixture is stable under normal conditions. See also section 10.4.

10.3. Possibility of hazardous reactions

Reactions with water : no
Other hazardous conditions : Data not available.

10.4. Conditions to avoid

Data not available.

10.5. Incompatible materials

Hazardous reactions with : none

10.6. Hazardous decomposition products

Hazardous decomposition products at heating : none

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD-50: >2.0 g/kg (ORL-RAT) TUNGSTEN

Method : OECD 401
Source : Supplier

Acute dermal toxicity

LD-50: >2.0 g/kg (SKN-RAT) TUNGSTEN

Method : OECD 402
Source : Supplier

Acute inhalation toxicity

LC-50: >5.4 mg/l/4H (IHL-RAT) TUNGSTEN

Method : OECD 403
Source : Supplier

Ames test

not traceable

Skin corrosion/irritation

The substance or mixture is not classified for skin corrosion/-irritation.

Serious eye damage/irritation

The substance or mixture is not classified for serious eye damage/irritation.

Respiratory or skin sensitisation

The substance or mixture is not classified for respiratory or skin sensitisation.

Germ cell mutagenicity

The substance or mixture is not classified for germ cell mutagenicity.

Carcinogenicity

The substance or mixture is not classified for carcinogenicity.

Additional information regarding carcinogenicity (NTP, IARC, OSHA)

NTP: no	IARC: no	OSHA: no	GLASS
NTP: no	IARC: 3	OSHA: no	MERCURY
NTP: no	IARC: no	OSHA: no	TUNGSTEN

Reproductive toxicity

The substance or mixture is not classified for reproductive toxicity.

Specific target organ toxicity-single exposure

The substance or mixture is not classified for specific target organ toxicity-single exposure.

Specific target organ toxicity-repeated exposure

The substance or mixture is not classified for specific target organ toxicity-repeated exposure.

Aspiration hazard

The substance or mixture is not classified for aspiration hazard.

Symptoms

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

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

LC-50: 0.004 mg/l/96H (Fish)	MERCURY	Source : Easi View
EC-50: 0.0052 mg/l/48H (Daphnia)	MERCURY	Source : ChemDat (Merck)
IC-50: 0.3 mg/l/72H (Algae)	MERCURY	Source : Easi View

12.2. Persistence and degradability

Biological oxygen demand	: not traceable
Chemical oxygen demand	: not traceable
Biological/chemical oxygen demand ratio	: not traceable
Degradability	: not traceable

12.3. Bioaccumulative potential

Bioconcentration factor (BCF)	: >2500	MERCURY	Source : Supplier
Log Po/w	: 4.5	MERCURY	Source : Chemicalcards

12.4. Mobility in soil

Henry Constant	: not traceable
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12.5. Results of PBT and vPvB assessment

Data not available.

12.6. Other adverse effects

Remarks on ecotoxicity	: none
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

SECTION 14: Transport information

14.1. UN number

ADR/RID	: 3506
IMDG/IMO	: 3506
IATA/ICAO	: 3506

Remarks ADR/RID	: This product is not subject to the transportation regulations of dangerous goods by road (ADR) based on special provision 366 (<1 kg mercury per article).
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Remarks IMDG/IMO	: This product is not subject to the transportation regulations of dangerous goods by sea (IMDG) based on special provision 366 (<1 kg mercury per article).
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* Remarks IATA/ICAO	: For transport exemptions consult IATA special provisions A48, A69 and A191.
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14.2. UN proper shipping name

ADR/RID	: MERCURY CONTAINED IN MANUFACTURED ARTICLES
IMDG/IMO	: MERCURY CONTAINED IN MANUFACTURED ARTICLES
IATA/ICAO	: MERCURY CONTAINED IN MANUFACTURED ARTICLES

14.3. Transport hazard class(es)

ADR/RID : 8 (6.1)	IMDG/IMO : 8 (6.1)	IATA/ICAO : 8 (6.1)
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14.4. Packing group

ADR/RID : none	IMDG/IMO : none	IATA/ICAO : none
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14.5. Environmental hazards

Marine pollutant : no

14.6. Special precautions for user

Hazard identification number (ADR/RID) : none
EmS (IMDG/IMO) : F-A, S-B

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Data not available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Articles are exempted from the Toxic Substances Control Act Inventory (TSCA-USA).

15.2. Chemical safety assessment

- Data not available.

SECTION 16: Other information

Remarks on SDS : Working of this product may release toxic dust.
Toxic mercury vapours can be released if the lamp is broken.
These lamps emit Ultraviolet Radiation (UV). Avoid prolonged exposure.
The product contains 5.0 mg mercury.

Overview relevant H-sentences from all components in section 3

H280 Contains gas under pressure; may explode if heated.
H330 Fatal if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
EUHP99 Suffocating in high concentrations.

Overview relevant hazard statements from all components in section 3

N DANGEROUS FOR THE ENVIRONMENT
T+ VERY TOXIC

Overview relevant R-sentences from all components in section 3

26 Very toxic by inhalation.
48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
61 May cause harm to the unborn child.
99 Suffocating in high concentrations.

Training advice

Provide adequate information, instruction and training for operators.

A key or legend to abbreviations and acronyms used in the safety data sheet

REACH Registration, Evaluation and Authorisation of Chemicals
GHS Globally Harmonised System of Classification and Labelling of Chemicals
CAS Chemical Abstracts Service
TGG = TWA Time Weighted Average
LEL Lower Explosive Limit
UEL Upper Explosive Limit
NTP National Toxicology Program
KHC Known Human Carcinogen
RAHC Reasonably Anticipated Human Carcinogen
IARC International Agency for Research on Cancer
OSHA Occupational Safety & Health Administration
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route
RID Règlement concernant le transport international ferroviaire des marchandises dangereuses
UN United Nations
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization
IATA International Air Transport Association
ICAO International Civil Aviation Organization
EmS Emergency Schedule

* Point to alterations with regard to the previous version.

The information provided in this Safety Data Sheet is believed to be correct as of the date issued. Philips Electronics Nederland B.V. makes no warranty as to its contents, nor as to its fitness for any particular purpose or use.