SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

Date last verification : 2012-08-09
Revision date : 2012-08-09
Publication date : 2012-08-09

Version number : 1.0

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

MSDS : 27952
Product code 12nc : 9280 482 01003
Supplier : PHILIPS LIGHTING, ROOSENDAAL

P.O.Box 1109
4700 BC Roosendaal
The Netherlands

Tradename : ACTINIC BL TL-D 18W/10 SECURA 1SL/25

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

General description : 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 40 2786069
Responsible department : dangerous.goods@philips.com

1.4. Emergency telephone number

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

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

Data not available.

3. Composition/information on ingredients

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

Component	CAS-no. EC-no.	Index No. Registration no.	Percentage(%)	GHS-Label EC-Label
MERCURY	7439-97-6 231-106-7	080-001-00-0		GHS06 GHS08 GHS09 H330 Acute tox. 2 H360D Repr. 1B H372 STOT RE 1 H410 Aquatic chronic 1 T+,N;R: 61 26 48/23 50/53 Repr.Cat. 2
TUNGSTEN	7440-33-7 231-143-9			
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.

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

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

None

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.

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.

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) :

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special precautions.

7.3. Specific end use(s)

Data not available.

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.			GLASS
TWA(8 hours):	0.02 mg/m3		MERCURY
No TWA has been laid down.			TUNGSTEN
No TWA has been laid down.			METALS
No TWA has been laid down.			FILLING GAS
No TWA has been laid down.			FLUORESCENT POWDER
No TWA has been laid down.			CAPPING CEMENT
applicable to:	**Belgium (20 °C; 1013 mbar)**		
TWA(8 hours):	0.025 mg/m3	S	MERCURY(Women in the fertile age: consult the industrial safety officer.)

TWA(8 hours):	5 mg/m3		TUNGSTEN
TWA(15 minutes):	10 mg/m3		TUNGSTEN

applicable to: Germany (20 ºC; 1013 mbar)

TWA(8 hours):	0.1 mg/m3	S	MERCURY(Women in the fertile age: consult the industrial safety officer.)
TWA(8 hours):	5 mg/m3		TUNGSTEN(as inhalable dust)

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

TWA(8 hours):	0.025 mg/m3	S	MERCURY(Women in the fertile age: consult the industrial safety officer.)
TWA(8 hours):	5 mg/m3		TUNGSTEN
TWA(15 minutes):	10 mg/m3		TUNGSTEN

applicable to: Sweden (20 ºC; 1013 mbar)

TWA(8 hours):	5 mg/m3		TUNGSTEN(as dust)

applicable to: Switzerland (20 ºC; 1013 mbar)

TWA(8 hours):	0.05 mg/m3		MERCURY(fume)
TWA(15 minutes):	0.4 mg/m3		MERCURY(fume)

applicable to: China (20 ºC; 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 ºC; 1013 mbar)

TWA(8 hours): (20 ºC; 1013 mbar)	0.02 mg/m3	MERCURY

C=Ceiling; S=Skin

Remarks exposure limits :

none

DNEL (Derived No Effect Level)

Data not available.

PNEC (Predicted No Effect Concentration)

Data not available.

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)

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: article		
Colour	: type dependent		
Odour	: odourless		
Odour threshold (20ºC; 1013 mbar)	: not traceable		
pH	: not applicable		
Melting point/range	: >480 ºC		
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

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

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.

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

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

Biochemical factor	:	>2500	MERCURY	**Source**	: Supplier
Log Po/w	:	4.5	MERCURY	**Source**	: Chemicalcards

12.4. Mobility in soil

Henry Constant : not traceable

12.5. Results of PBT and vPvB assessment

Data not available.

12.6. Other adverse effects

Remarks on ecotoxicity : none

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.

14. Transport information

14.1. UN number

ADR/RID	:	2809
IMDG/IMO	:	2809
IATA/ICAO	:	2809

Remarks ADR/RID	:	This product is not subject to the transportation regulations of dangerous goods by road (ADR) based on special provision 599 (<1 kg mercury per article).
Remarks IMDG/IMO	:	This product is not subject to the transportation regulations of dangerous goods by sea (IMDG) based on special provision 941 (<1 kg mercury per article).

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 IMDG/IMO : 8 IATA/ICAO : 8

14.4. Packing group

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

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 MARPOL73/78 and the IBC Code

Data not available.

15. Regulatory information

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

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

15.2. Chemical safety assessment

- Data not available.

16. Other information

Remarks on MSDS : 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-A). Avoid prolonged exposure.
The product contains 13 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
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 Material Safety Data Sheet is correct to the best of the knowledge, information and belief of Philips Electronics Nederland B.V. at the date of its printing.