



# SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

**Date last verification** : 2017-05-29  
**Revision date** : 2017-05-29  
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**Version number** : 2.0

Last modifications in sections : 2 - 3

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

### 1.1. Product identifier

**SDS** : 29847  
**Product code 12nc** : 9280 227 01003  
**Supplier** : PHILIPS LIGHTING, EINDHOVEN  
 High Tech Campus 44  
 5656 AE Eindhoven  
 The Netherlands

**Tradename** : MASTER ACTINIC BL 15W/10 SECURA

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

**General description** : INSECT LAMP  
**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., Philips Environment & Safety, High Tech Campus 37, 5656 AE 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

(EC) No 1272/2008

### 2.2. Label elements

(EC) No 1272/2008

**Label** : not applicable

**Remarks on 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. EC-no.	Index No. Registration no.	Percentage(%)	Label
GLASS	65997-17-3 266-046-0	01-2119488048-29 01-2119990048-30		
STRONTIUM BORATE OXIDE, EUROPIUM-DOPED	102110-29-2 310-028-8			
FILLING GAS (KR/AR)				GHS04

Component	CAS-no.	Index No.	Percentage(%)	Label
	EC-no.	Registration no.		
				H280 Press. gas - compressed EUHP99 Asphixiant
MERCURY	7439-97-6 231-106-7	080-001-00-0 01-2119548380-42		GHS06 GHS08 GHS09 H330 Acute tox. 2 H360D Repr. 1B H372 STOT RE 1 H400 Aquatic acute 1 H410 Aquatic chronic 1
TUNGSTEN	7440-33-7 231-143-9	01-2119488910-30		
METALS				
CAPPING CEMENT				

For the full text of the H-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.  
 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

## 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, aluminium oxides, mercury oxides, strontium oxide, boric oxides, europium 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 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.	GLASS
No TWA has been laid down.	STRONTIUM BORATE OXIDE, EUROPIUM-DOPED
No TWA has been laid down.	FILLING GAS (KR/AR)
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.	CAPPING CEMENT

(Statutory threshold limit value)

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

TWA(8 hours): 0.02 mg/m3	MERCURY
TWA(8 hours): 5 mg/m3	TUNGSTEN
TWA(15 minutes): 10 mg/m3	TUNGSTEN

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

TWA(8 hours): 0.02 mg/m3	S	MERCURY
TWA(15 minutes): 0.16 mg/m3	S	MERCURY
TWA(8 hours): 5 mg/m3		TUNGSTEN(as inhalable dust)

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

TWA(8 hours): 0.025 mg/m3	S	MERCURY- [according to ACGIH]
TWA(8 hours): 0.1 mg/m3	C	MERCURY- [according to OSHA]
TWA(8 hours): 5 mg/m3		TUNGSTEN- [according to ACGIH]
TWA(15 minutes): 10 mg/m3		TUNGSTEN- [according to ACGIH]

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

TWA(8 hours): 0.02 mg/m3	MERCURY(as inhalable dust)
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
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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
Autoignition temperature	:	not applicable	Source : Chemicalcards
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: no	OSHA: no	STRONTIUM BORATE OXIDE, EUROPIUM-DOPED
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 : 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

### 12.5. Results of PBT and vPvB assessment

Data not available.

### 12.6. Other adverse effects

Remarks on ecotoxicity : none

## 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).
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).
Remarks IATA/ICAO	: For transport exemptions consult IATA special provisions A48, A69 and A191.

### 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 on 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 3.0 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.

#### 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.