

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision date : 2019-01-25

Publication date : 2018-08-28

Version number : 1.2

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

- (a) **Product identifier**
- SDS : 33612
- Lamp Material Data Sheet code (LMDS) : Philips TL5-09100D
- \* Supplier :
- Signify North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873-4186
- Tradename : PHILIPS T5 FLUORESCENT LAMPS - ALL TYPES
- (b) **Other means of identification** :
- All ALTO, non-ALTO, Standard, HE, HO, Circular, and TuffGuard All lengths, coatings, wattages
- (c) **Relevant identified uses of the substance or mixture and uses advised against**
- General description : Fluorescent Lamp
- Use : Various
- Uses advised against : No data available
- (d) **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 27 41 645
- Responsible department : hazcom@philips.com
- (e) **Emergency telephone number** Emergency telephone number:
- CHEMTREC : +1 (0)800-424-9300

## SECTION 2: Hazards identification

- (a) **Classification of the substance or mixture**

### C lassification in accordance with 29 CFR 1910.1200

Not classified.

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is an article and as such does not require an SDS per the OSHA hazard communication standard.

- (b) **Label elements**

### Labelling in accordance with 29 CFR 1910.1200

Label : not applicable.

Remarks on labelling: none

- (c) **Other hazards**

none.

## SECTION 3: Composition/information on ingredients

T5 Fluorescent Lamps - Linear					
Description	Chemical name	CAS #'s	Total Weight (g)		% of Weight
Phosphor Components					
	Yttrium oxide (Y <sub>2</sub> O <sub>3</sub> ), europium-doped - (YOX)	68585-82-0	0.7		1.09%
	Lanthanum Phosphate Phosphor - (LAP)	95823-34-0	0.375		0.59%
	Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ), solid soln. with barium oxide and magnesium oxide, europium-doped - BAM/BBG/BamGreen	102110-17-8	0.175		0.28%
	Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ), solid soln. with cerium oxide (CeO <sub>2</sub> ) and magnesium oxide, terbium-doped - (CAT)	102110-19-0	0.1		0.05%
Individual or mixed components			<b>1.35</b>	<b>g</b>	<b>2.01%</b>
Glass Bulb Pre-Coat	aluminium oxide	1344-28-1	<b>0.014 - 0.05</b>	<b>g</b>	<b>0.04%-0.06%</b>
Glass, oxide, chemicals	Glass Bulbs	65997-17-3	<b>35-100</b>	<b>g</b>	<b>97%-99%</b>
Mercury	Mercury	7439-97-6	<b>0.0014 - 0.0064</b>	<b>g</b>	<b>0.004%-0.006%</b>

## SECTION 4: First aid measures

## (a) Description of first aid measures

**Skin** : Not applicable. **Ingestion** :

Not applicable. **Inhalation** : Not

applicable. **Eyes** : Not

applicable.

## (b) Most important symptoms and effects, both acute and delayed

Skin local : Under normal circumstances not applicable.

general : Under normal circumstances not applicable

Ingestion local : Under normal circumstances not applicable

general : Under normal circumstances not applicable

Inhalation local : Under normal circumstances not applicable

general : Under normal circumstances not applicable

Eyes local : Under normal circumstances not applicable

Remarks symptoms : None

## (c) Indication of any immediate medical attention and special treatment needed None

## SECTION 5: Firefighting measures

### (a) Extinguishing media

#### Suitable fire-extinguisher

determined by surrounding.

#### Unsuitable fire-extinguisher

not traceable.

### (b) Special hazards arising from the substance or mixture

Hazardous decomposition products in fire : Silicon dioxide, Mercury oxides, metal oxide

### (c) 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

### (a) Personal precautions, protective equipment and emergency procedures

#### Personal precautions

In case of broken articles, use protective equipment. Evacuate area.

#### For non-emergency personnel

##### Protective equipment

Wear protective gloves/protective clothing/eye protection/face protection.

##### Emergency procedure

Ventilate affected area.

#### For emergency responders

Use appropriate respiratory protection. Personal protection equipment

### (b) Methods and material for containment and cleaning up

#### For containment

Collect materials needed to clean up broken bulb: stiff paper or cardboard; sticky tape; damp paper towels or disposable wet wipes (for hard surfaces); and a glass jar with a metal lid or a sealable plastic bag. Be thorough in collecting broken glass.

#### For cleaning up

DO NOT VACUUM. Vacuuming is not recommended unless broken glass remains after all other cleanup steps have been taken. Vacuuming could spread mercury-containing powder or mercury vapor. Scoop up glass fragments using stiff paper or cardboard and sticky tape. Place cleanup materials in a sealable container.

#### Other information

No information available.

## SECTION 7: Handling and storage

### (a) Precautions for safe handling

Local exhausting : Under normal circumstances not applicable.

### (b) Conditions for safe storage, including any incompatibilities

Storage conditions : No special precautions.

## SECTION 8: Exposure controls/personal protection

### (a) Control parameters

Exposure limits :

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

TWA(8 hours): 0.025 mg/m<sup>3</sup> S MERCURY- [according to ACGIH]

TWA (8 hours): 0.1 mg/m<sup>3</sup> C MERCURY- [according to NIOSH]

TWA (8 hours) 0.1 mg/10m<sup>3</sup> C MERCURY – [according to OSHA]

C=Ceiling; S=Skin

**Remarks exposure limits : none**

**(b) Appropriate engineering controls:** Under normal circumstances not applicable

**(c) Exposure controls**

**Advised personal protection:**

Hands: Under normal circumstances not applicable. Breakthrough time:  
Under normal circumstances not applicable. Eyes: Under  
normal circumstances not applicable. Inhalation: Under normal  
circumstances not applicable. Skin: Under normal circumstances not  
applicable.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	: article
Color	: type dependent
Odor	: odorless
Odor threshold (20°C; 1013 mbar)	: not traceable
pH	: not applicable
Melting point/freezing point	: not traceable
Boiling point/range	: not traceable
Flash point/range	: not applicable
Evaporation rate/range	: not applicable
Vapor rate/range	: not applicable
Flammability (solid, gas)	: data not available
Upper/lower flammability or explosive limit	: not applicable
Vapor pressure	: not applicable
Vapor density	: not applicable
Density	: not traceable
Solubility in water	: not applicable

Log Po/w:	4.5	MERCURY	Source	: Chemicalcards
	0.54	POLY(ETHYLENE TEREPHTHALATE)	Source	: Easi View

Auto-ignition temperature	: not applicable
Decomposition temperature	: not traceable
Viscosity	: not applicable
Dust explosions possible in air	: not applicable
Oxidizing properties	: no

## SECTION 10: Stability and reactivity

**(a) Reactivity**

Not applicable.

**(b) Chemical stability**

The substance or mixture is stable under normal conditions.

**(c) Possibility of hazardous reactions**

**Reactions with water** : no

**Other hazardous conditions** : Data not available.

**(d) Conditions to avoid**

Data not available.

**(e) Incompatible materials**

**Hazardous reactions with** : none

**(f) Hazardous decomposition products**

**Hazardous decomposition products at heating** : none

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute oral toxicity**

No data available.

**Acute dermal toxicity**

No data available.

**Acute inhalation toxicity**

No data available.

**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 sensitization**

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

**Germ cell mutagenicity**

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

**Carcinogenicity**

**IARC:** Group 3: Not classifiable as to its carcinogenicity to humans (Mercury)

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**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

### (a) Toxicity

#### Ecotoxicity

LC-50: 0.004 mg/l/96H (Fish)                      MERCURY

#### Source

: Easi View

EC-50: 0.0205 mg/l/48H (Daphnia)              MERCURY

#### Source

: IFA- Gestis

IC-50: 0.3 mg/l/72H (Algae)                      MERCURY

Source : Easi View

### (b) Persistence and degradability

Biological oxygen demand:                      not applicable

Chemical oxygen demand:                      not applicable

Degradability:                                      not applicable

### (c) Bioaccumulative potential

Bioconcentration factor (BCF)                  : >2500              MERCURY

### (d) Mobility in soil

Henry Constant                                      : 1.46E-1 atm m<sup>3</sup>/mol      POLY(ETHYLENE TEREPHTHALATE)              **Source:**      Easi View

### (e) Other adverse effects

Remarks on eco-toxicity:                      none

## SECTION 13: Disposal considerations

### Waste treatment methods

Remainder material or uncleaned empty packaging's 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

### (a) UN number

DOT/49CFR    : none

IMDG/IMO    : none

IATA/ICAO                                         : 3506

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

### (b) UN proper shipping name

DOT/49CFR    : none

IMDG/IMO    : none

IATA/ICAO                                         : MERCURY CONTAINED IN MANUFACTURED ARTICLES

**(c) Transport hazard class(es)**

DOT/49CFR : none                      IMDG/IMO : none                      IATA/ICAO : 8 (6.1)

**(d) Packing group**

DOT/49CFR : none                      IMDG/IMO : none                      IATA/ICAO : none

**(e) Environmental hazards**

Marine pollutant                      : no

**(f) Special precautions for user**

Hazard identification number (ADR/RID)                      : none

EmS (IMDG/IMO)                      : none

**(g) Transport in bulk according to Annex II of Marpol and the IBC Code** Data not available.**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****US Federal regulations****SARA 313:** Mercury **SARA****311/312:** not applicable.**HMIS Classification:** not applicable.**U.S. Clean Water Act Section 307 – Toxic Pollutants:** Mercury**National inventories**

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

**International inventories****DSL/NDSL:** This substance is on the DSL (Mercury)**SECTION 16: Other information****Remarks on SDS** : Working on this product may release toxic dust.  
Toxic mercury vapors can be released if the lamp is broken.  
For transport exemptions consult applicable regulations.**A key or legend to abbreviations and acronyms used in the safety data sheet**

GHS	Globally Harmonized 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
DOT	US Department of Transportation
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
SARA	Superfund Amendments and Reauthorization Act

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\* 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.