

SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

Date last verification : 2015-10-01 Version number : 4.2

Revision date : 2013-01-11 Publication date : 2011-05-23

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

1.1. Product identifier

SDS : 26845

Product code 12nc : 9279 254 85001

Supplier: PHILIPS LIGHTING, EINDHOVEN

High Tech Campus 44 5656 AE Eindhoven The Netherlands

Tradename : F32T8/TL850/ALTO 25PK

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

General description : 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., 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. EC-no. EC-no. Index No. Registration no. Percentage(%) GHS-Label EC-Label GLASS 65997-17-3 266-046-0 01-2119990048-30 01-2119990048-30

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Component MERCURY	CAS-no. EC-no. 7439-97-6 231-106-7	Index No. Registration no. 080-001-00-0 01-2119548380-42	— Percentage(%) —	GHS-Label EC-Label GHS06 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

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

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

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

Skin local : Not applicable. Not applicable. general 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

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 : 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

Date of request: 2017-04-04 SDS 26845 - Page 2 / 7 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: CT3

15)

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)
applicable to.	THE NEUTERIALIUS	(ZU C, IUISIIIDAI

No TWA has been laid down. GLASS
TWA(8 hours): 0.02 mg/m3 MERCURY

No TWA has been laid down.

No TWA has been laid down.

No TWA has been laid down.

TUNGSTEN

METALS

No TWA has been laid down.

FILLING GAS

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
TWA(15 minutes): 10 mg/m3 TUNGSTEN

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

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(Statutory threshold limit value)

 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

Remarks exposure limits :

none

DNEL (Derived No Effect Level)

C=Ceiling; S=Skin

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

PNEC (Predicted No Effect Concentration)

Fresh water: 0.000057 mg/l **MERCURY** Source : Chemicalcards MERCURY Source : Chemicalcards Marine water: 0.000067 mg/l TUNGSTEN ECHA Fresh water: 0.338 mg/l Source Marine water: 0.0338 mg/l TUNGSTEN Source ECHA TUNGSTEN ECHA Source 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 Marine water sediment: 96 mg/kg TUNGSTEN Source **FCHA** TUNGSTEN Source : ECHA Soil: 2.17 mg/kg TUNGSTEN : FCHA Oral (food): 11 mg/kg Source

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 Colour : type dependent Odour odourless : not traceable Odour threshold (20°C; 1013 mbar) pН : not applicable Melting point/range : not traceable 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.

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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

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

Not applicable. local Skin general Not applicable. Ingestion local Not applicable. general Not applicable. Not applicable. Inhalation local Not applicable. general Eves Not applicable. local

Remarks symptoms : None

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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 : not traceable

demand ratio

Degradability : not traceable

12.3. Bioaccumulative potential

Bioconcentration factor : >2500 MERCURY Source : Supplier

(BCF)

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)

14.4. Packing group

ADR/RID : none IMDG/IMO : none IATA/ICAO : none

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

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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.

The product contains 2.0 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

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.

May cause harm to the unborn child.
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

IMDGInternational Maritime Dangerous GoodsIMOInternational Maritime OrganizationIATAInternational Air Transport AssociationICAOInternational Civil Aviation Organization

EmS Emergency Schedule

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^{*} Point to alterations with regard to the previous version.

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