

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

**Date last verification** : 2017-05-29  
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**Version** : 5.0

Indication of changes : §3

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

### 1.1. Product identifier

**Safety Data Sheet** : 27597  
**Product code** : 9279 090 04007  
**Product name:** : TUV PL-L 60W/4P HO 1CT/25

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

**Relevant identified uses** : No information available.  
**Uses advised against** : No information available.

### 1.3. Details of the supplier of the safety data sheet

**Supplier** : SIGNIFY HTC 48  
 High Tech Campus 48  
 5656 AE Eindhoven  
 Noord-Brabant  
 Netherlands

**Telephone** :

**Responsible for the compilation of the SDS on behalf of the supplier/ manufacturer** : hazcom@philips.com

### 1.4. Emergency telephone number

**Emergency telephone number (regarding transport of DG)** : +31 (0)497-598315

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### 2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

Not classified

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

none

**Remarks on labelling** : none.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixture

Substance name	CAS No.	EC No.	REACH No.	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
GLASS	65997-17-3	266-046-0	01-2119488048-29 01-2119990048-30		

Substance name	CAS No.	EC No.	REACH No.	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
MERCURY	7439-97-6	231-106-7	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					
FILLING GAS					GHS04 EUHP99 Simple asphyxiant gas H280 Press. gas - compressed EUHP99 Simple asphyxiant gas

Full text of H- and EUH-statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- General information** : No special measures are necessary.
- Following inhalation** : No special measures are necessary.
- Following skin contact** : No special measures are necessary.
- After eye contact** : No special measures are necessary.
- After ingestion** : No special measures are necessary.
- Self-protection of the first aider** : No special measures are necessary.

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

- Following skin contact**
- local** : Not applicable.
  - systemic** : Not applicable.
- After ingestion**
- local** : Not applicable.
  - systemic** : Not applicable.
- Following inhalation**
- local** : Not applicable.
  - systemic** : Not applicable.
- After eye contact**
- local** : Not applicable.
- Other information** : None

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

- Notes for the doctor** : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media** : Co-ordinate fire-fighting measures to the fire surroundings.
- Unsuitable extinguishing media** : No information available.

### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products**

- In case of fire may be liberated** : mercury oxides • metal oxide • tungsten oxides

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing. (EN 469)

### 5.4. Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions** : Use personal protection equipment.

### 6.1.1. For non-emergency personnel

Protective equipment : Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Emergency procedures : not applicable.

### 6.1.2. For emergency responders

Personal protection equipment : Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

## 6.3. Methods and material for containment and cleaning up

### 6.3.1. For containment

Ensure waste is collected and contained. Wet clean or vacuum up solids. Use approved industrial vacuum cleaner for removal.

### 6.3.2. For cleaning up

Wear a self-contained breathing apparatus and chemical protective clothing. Ventilate affected area. Clean contaminated articles and floor according to the environmental legislation.

### 6.3.3. Other information

not determined

## 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

Advices on safe handling : No special measures are necessary.

Measures to prevent fire : No information available.

Measures to prevent aerosol and dust generation : No information available.

Environmental precautions : Avoid release to the environment.

Advices on general occupational hygiene : When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands before breaks and after work.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Special precautions for user: none.

storage temperature : No information available.

Requirements for storage rooms and vessels : No information available.

Storage class : CT3

Materials to avoid : No information available.

Further information on storage conditions : No information available.

### 7.3. Specific end use(s)

Recommendation : not applicable

Industrial sector specific solutions : No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

Substance name	Limit value	European Union		Netherlands		Germany		Belgium	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
MERCURY									
	8 hour(s)	0.02		0.02		0.02		0.02	
	15 minutes					0.16			
	C								

Substance name	Limit value	European Union		Netherlands		Germany		Belgium	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
TUNGSTEN						(inhalable dust)			
	8 hour(s)					5		5	
	15 minutes							10	
	C								

Substance name	Limit value	Switzerland		China		Sweden			
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm		
MERCURY		(Fume)				H (inhalable dust)			
	8 hour(s)	0.05		0.02		0.02			
	15 minutes	0.4		0.04					
	C								
TUNGSTEN						(dust)			
	8 hour(s)			5		5			
	15 minutes			10					
	C								

Source : TRGS 910, Austrian OEL Regulation, SUVA, Dutch Health Council, 2006/15/EC, 2004/37/EC, Dutch Social-Economic Council (SER), US OSHA, LOLI DB, 2000/39/EC, EU OSHA, GWBB/VLEP, TRGS 900, Gestis, 91/322/EEC, 2017/164/EU, INRS (Fr), ACGIH®, 2009/161/EU, TRGS 905

20 °C, 1013 mbar: European Union / China / South Korea

25 °C, 1013 mbar: United States / Canada / Japan

[x]: appraisal period x minutes

C: peak limitation

H: skin resorptive

S: Statutory threshold limit value

ALARA: As low as reasonably achievable (ALARA principle).

## Remark Occupational exposure limit values

none

## DNEL (Derived No Effect Level (DNEL-value))

Substance name	Exposure route	DNEL worker			
		systemic		local	
		long-term	short-term	long-term	short-term
MERCURY	oral [mg/kg bw/day]	Not required.			
	Inhalation [mg/m <sup>3</sup> ] 00	0.02			
	dermal [mg/kg bw/day]				
TUNGSTEN	oral [mg/kg bw/day]	Not required.			
	Inhalation [mg/m <sup>3</sup> ] 00	5.8			
	dermal [mg/kg bw/day]				

## PNEC (Predicted No Effect Concentration (PNEC-value))

Substance name	aquatic, freshwater [mg/L]	aquatic, marine water [mg/L]	aquatic, intermittent release [mg/L]	sewage treatment plant [mg/L]	sediment, freshwater [mg/kg sediment dw]	sediment, marine water [mg/kg sediment dw]	soil [mg/kg soil dw]
MERCURY	0.000057	0.000067					
TUNGSTEN	0.338	0.0338	0.310	5.86	960	96	2.17

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Safe handling: see section 7

### 8.2.2. Personal protection equipment

**Eye/face protection** : Eye protection: not required.

#### Skin protection

**Hand protection** : Hand protection is not required.

**Body protection** : Body protection: not required.

**Respiratory protection** : Usually no personal respirative protection necessary.

### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

### 8.3. Additional information

No further relevant information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	: not applicable
<b>Appearance</b>	: Article
<b>Colour</b>	: various
<b>Odour</b>	: odourless
<b>Odour threshold</b>	: No information available.
<b>pH</b>	: not applicable
<b>Melting point/freezing point</b>	: No information available.
<b>Initial boiling point and boiling range</b>	: No information available.
<b>Flash point</b>	: No information available.
<b>Evaporation rate</b>	: not applicable
<b>flammability</b>	: No information available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Upper explosion limit</b>	: not applicable
<b>Lower explosion limit</b>	: not applicable
<b>Vapour pressure</b>	: not applicable
<b>Vapour density</b>	: No information available.
<b>Relative density</b>	: No information available.
<b>Solubility(ies)</b>	
<b>Water</b>	: not applicable
<b>Partition coefficient: n-octanol/water</b>	
MERCURY	: 4.5 ▪ Source: Chemiekaarten®
<b>Auto-ignition temperature</b>	: not applicable
<b>Decomposition temperature</b>	: No information available.
<b>Viscosity</b>	: not applicable
<b>Explosive properties:</b>	: not applicable
<b>Oxidising properties</b>	: not applicable

### 9.2. Other information

<b>Critical temperature T<sub>c</sub></b>	: not applicable
<b>Fat solubility</b>	: not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Stable under recommended storage and handling conditions.

### 10.5. Incompatible materials

none

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### 10.7. Additional information

No information available.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

### Acute toxicity

After ingestion : No  
 Skin contact : No  
 Inhalation : No

Substances	Dose / Concentration	Value	Species	Exposure time	Method
TUNGSTEN					
oral	LD50:	>2.0 g/kg	Rat		OECD 401
dermal	LD50:	>2.0 g/kg	Rat		OECD 402
Inhalation (dust/mist)	LC50:	>5.4 mg/l	Rat	4 hour(s)	OECD 403

Skin corrosion/irritation : not applicable  
 Serious eye damage/eye irritation : not applicable  
 Respiratory or skin sensitisation : not applicable  
 Germ cell mutagenicity : not applicable  
 Carcinogenicity : not applicable  
 Reproductive toxicity : not applicable  
 STOT-single exposure : not applicable  
 STOT-repeated exposure : not applicable  
 Aspiration hazard :

### Symptoms

Following skin contact  
     local : Not applicable.  
     systemic : Not applicable.  
 After ingestion  
     local : Not applicable.  
     systemic : Not applicable.  
 Following inhalation  
     local : Not applicable.  
     systemic : Not applicable.  
 After eye contact  
     local : Not applicable.  
 Other information : None

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance name	Acute (short-term) fish toxicity	Acute (short-term) toxicity to crustacea	Acute (short-term) toxicity to aquatic algae and cyanobacteria	Toxicity to other aquatic plants/organisms
MERCURY	LC50: 0.004 mg/L 96 hour(s) Fish - Source: EaSI-Pro ® View	EC50: 0.0052 mg/L 48 hour(s) Daphnia - Source: ChemDat (Merck)	IC50: 0.3 mg/L 72 hour(s) Algae - Source: EaSI-Pro ® View	

### 12.2. Persistence and degradability

Biodegradation : No information available.  
 Chemical oxygen demand (COD) : No information available.  
 Biochemical oxygen demand : No information available.  
 BOD5/COD ratio : No information available.

### 12.3. Bioaccumulative potential

Bioconcentration factor (BCF)  
 MERCURY : >2500 - Source: Supplier  
 Partition coefficient: n-octanol/water  
 MERCURY : 4.5 - Source: Chemiekaarten®

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

## 12.6. Other adverse effects

No information available.

## 12.7. Additional ecotoxicological information

Observe local regulations concerning effluent treatment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of contents/container to industrial incineration plant. Following consultation with waste management company and after physico-chemical pre-treatment, landfill together with household waste.

**Other disposal recommendations** : not applicable

## SECTION 14: Transport information

### 14.1. UN number

UN 3506

### 14.2. UN proper shipping name

MERCURY CONTAINED IN MANUFACTURED ARTICLES

### 14.3. Transport hazard class(es)

8 (6.1)

### 14.4. Packing group

none

### 14.5. Environmental hazards

Marine pollutant : No

### 14.6. Special precautions for user

Hazard identification number (Kemler No.) : none

EmS (IMDG) : F-A, S-B

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

### 14.8.

**ADR / RID** The product is not subject to the transportation regulations of dangerous goods based on special provision: 366 (< 1 kg mercury (Hg).)

**IMDG** The product is not subject to the transportation regulations of dangerous goods based on special provision: 366 (< 1 kg mercury (Hg).)

**ICAO-TI / IATA-DGR** For transport exemptions consult special provision: A48, A69, A191

## SECTION 15: Regulatory information

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

#### International regulations:

**Minamata Convention on Mercury** : not applicable

#### EU legislation

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**  
not applicable

**This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH:**

not applicable

#### **Overall Assessment on CMR properties**

according to Regulation (EC) No. 1907/2006 (REACH) : not applicable

#### **Regulation (EC) No 850/2004 [POP-Regulation]**

not applicable

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer.

not applicable

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

## 15.2. Chemical Safety Assessment

No information available.

## SECTION 16: Other information

### Additional information

WToxic dust may be released during the processing of this material.

Toxic mercury vapors can be released if the lamp is broken.

The product contains 4.4 mg mercury.

### Relevant H-phrases (Number and full text)

EUHP99	[TABLE ERROR : description en not found]
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUHP99	

### Abbreviations and acronyms

ACGIH®	American Conference of Governmental Industrial Hygienists
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
BuAc	n-Butyl acetate
CAS	Chemical Abstracts Service
CCID	New Zealand Chemical Classification and Information Database
DSL	Canada Domestic Substances List
ECHA-RAC	ECHA Committee for Risk Assessment
EFSA	European Food Safety Authority
EHSP	OECD Environment, Health, and Safety Publication
EmS	Emergency Schedule
EU-CLH	European Union Harmonised Classification and Labelling
GESTIS	Databases on hazardous substances of the German Social Accident Insurance
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
GWBB-VLEP	Grenswaarden voor beroepsmatige blootstelling/Valeurs limites d'exposition professionnelle
HHS	U.S. Department of Health and Human Services
HSDB	Hazardous Substances Data Bank
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INRS	French National Research and Safety Institute for the Prevention of Occupational Accidents and Diseases
JP-GHS	Japan GHS Basis for Classification Data
KHC	Known human carcinogens.
LEL	Lower explosion limit
LOLI	LOLI (List of Lists) Database
n.a.	not applicable
NDSL	Canada Non-domestic Substance List
NICNAS	Australia National Industrial Chemicals Notification and Assessment Scheme
NIER	South Korea National Institute of Environmental Research Evaluations
NLM	United States National Library of Medicine
NTP	National Toxicology Program
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
OSHA	Occupational Safety & Health Administration
OUE	European Odour Unit
RAHC	Reasonably Anticipated Human Carcinogen
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCOEL	Scientific Committee on Occupational Exposure Limits (EU)
SIDS	OECD Screening Information Data Sets
SUVA	Swiss Accident Insurance Fund
TRGS	Technische Regeln für Gefahrstoffe
TSCA	The Toxic Substances Control Act Chemical Substance Inventory



TWA	Time Weighted Average
UEL	Upper explosion limit
UN	United Nations
US-EPA	United States Environmental Protection Agency

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