

Safety Data Sheet

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200)

Version : 1.0

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

Product identifier

Safety Data Sheet : 27597
 Product code : 9279 087 04007
 Product name: : TUV PL-L 55W/4P HF 1CT/25

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

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

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

Emergency telephone number

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

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

Label elements

Labelling according to 29 CFR 1910.1201

none

emergency overview

Appearance : Lamps	Physical state : solid	Odour : odourless
Hazards not otherwise classified : not applicable		

Remarks on labelling

As an article, this product presents negligible health and physical hazards under reasonably anticipated conditions of use. Accordingly, a Safety Data Sheet (SDS) is not required for this product under the standards cited above. This document is prepared as a courtesy to provide persons using this product with additional safety and regulatory information.

Other hazards

No information available.

SECTION 3: Composition / information on ingredients

Mixture

Substance name	CAS No.	Concentration (%)
GLASS	65997-17-3	

Substance name	CAS No.	Concentration (%)
MERCURY	7439-97-6	
TUNGSTEN	7440-33-7	
METALS		
FILLING GAS		

SECTION 4: First aid measures

Description of first aid measures

- General information** : When in doubt or if symptoms are observed, get medical advice.
- Following inhalation** : No special measures are necessary.
- Following skin contact** : No special measures are necessary.
- After eye contact** : No special measures are necessary.
- Following ingestion** : No special measures are necessary.
- Self-protection of the first aider** : No special measures are necessary.

Most important symptoms and effects, both acute and delayed

Adverse human health effects and symptoms / Organs affected:

not applicable

- Following inhalation** : not applicable
- Following skin contact** : not applicable
- After eye contact** : not applicable
- Following ingestion** : not applicable

Further information: SECTION 11: Toxicological information

Indication of any immediate medical attention and special treatment needed

- Notes for the doctor** : Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

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

Special hazards arising from the substance or mixture

Hazardous combustion products

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

Advice for firefighters

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

Additional information

The product itself does not burn.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Personal precautions** : Use personal protection equipment. In case of fire: Evacuate area. Health hazard! Toxic mercury vapors can be released if the lamp is broken.
- For non-emergency personnel**
- Protective equipment** : Do not breathe dust/fume/gas/mist/vapours/spray. Wear a self-contained breathing apparatus and chemical protective clothing.
- Emergency procedures** : Health hazard! Evacuate area. Toxic mercury vapors can be released if the lamp is broken.
- For emergency responders**
- Personal protection equipment** : Do not breathe dust/fume/gas/mist/vapours/spray. Wear a self-contained breathing apparatus and chemical protective clothing.

Environmental precautions

Collect spillage. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow to enter into soil/subsoil. Ensure waste is collected and contained.

Methods and material for containment and cleaning up

For containment

Spillage procedure not applicable, if lamp is in original state. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves.

For cleaning up

Be thorough in collecting broken glass. Put the broken lamp parts in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner unless it is a special mercury vacuum cleaner to prevent any vaporisation of the mercury. Mercury droplets can be grabbed with an acid etched zinc plate and then shaken off into a collection vessel (work over a safety vessel). For reuse store the zinc plate in an area that is under permanent exhaustion or dispose it together with the mercury remains. Ventilate affected area.

Other information

Inform the relevant authorities if the product has entered sewers, waterways, soil or air and might have caused environmental pollution.

Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

Precautions for safe handling

Protective measures

Advices on safe handling	: Handle with care - avoid bumps, friction and impact. Toxic mercury vapors can be released if the lamp is broken.
Measures to prevent fire	: Handle with care - avoid bumps, friction and impact. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Measures to prevent aerosol and dust generation	: Do not vacuum. Vacuuming could spread mercury-containing powder or mercury vapor.
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.

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.

Specific end use(s)

Recommendation	: not applicable
Industrial sector specific solutions	: No information available.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limit values

Substance name	Limit value	US (OSHA)		US (ACGIH)			
		mg/m ³	ppm	mg/m ³	ppm		
MERCURY							
	8 hour(s)			0.025			
	15 minutes						
	C	0.1					

Substance name	Limit value	US (OSHA)		US (ACGIH)			
		mg/m ³	ppm	mg/m ³	ppm		
TUNGSTEN	8 hour(s)			(respirable dust)			
	15 minutes			3			
	C						

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

68 °F, 1013 mbar: European Union / China / South Korea

77 °F, 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 ³] 00	0.02			
	dermal [mg/kg bw/day]				
TUNGSTEN	oral [mg/kg bw/day]	Not required.			
	Inhalation [mg/m ³] 10	5.8			
	dermal [mg/kg bw/day]	1.7			

Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Safe handling: see section 7

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.

Environmental exposure controls

See section 7. No additional measures necessary.

Additional information

No further relevant information available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	: solid
Appearance	: Lamps
Colour	: various
Odour	: odourless
Odour threshold	: No information available.
pH	: not applicable
Melting point/freezing point	: No information available.
Initial boiling point and boiling range	: No information available.
Flash point	: No information available.
Evaporation rate	: not applicable

flammability : This product contains: Flammable solids.
Upper/lower flammability or explosive limits
 Upper explosion limit : not applicable
 Lower explosion limit : not applicable
Vapour pressure : not applicable
Vapour density : No information available.
Relative density : No information available.
Solubility(ies)
 Water : not applicable

Partition coefficient n-octanol/water
 Mixture : Product/Substance is inorganic.

Auto-ignition temperature : not applicable
Decomposition temperature : No information available.
Viscosity : not applicable
Explosive properties: : not applicable
Oxidising properties : not applicable

Other information

Critical temperature Tc : not applicable
Fat solubility : not applicable

SECTION 10: Stability and reactivity

Reactivity

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

Chemical stability

No known hazardous reactions.

Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid

Strong mechanical impact.

Incompatible materials

none

Hazardous decomposition products

No known hazardous decomposition products. - Decomposition products in case of fire: see section 5.

Additional information

No information available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Following ingestion : No
Skin contact : No
Inhalation : No

Substances	Dose / Concentration	Value	Species	Exposure time	Method
MERCURY					
Inhalation (vapour)	LC50:	> 0.053 mg/L	Rat	4 hour(s)	
TUNGSTEN					
oral	LD50:	> 2000 mg/kg	Rat		OECD 401
dermal	LD50:	> 2000 mg/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

- IARC** : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- 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 : not applicable

STOT-single exposure : not applicable

STOT-repeated exposure : not applicable

Aspiration hazard : not applicable

Symptoms

Following inhalation : not applicable

Following skin contact : not applicable

After eye contact : not applicable

Following ingestion : not applicable

SECTION 12: Ecological information**Toxicity**

Substance name	Acute (short-term) fish toxicity	Acute (short-term) toxicity to crustacea	Acute (short-term) toxicity to algae and cyanobacteria	Toxicity to other aquatic plants/organisms
MERCURY	LC50: > 0.16 mg/L 96 hour(s) Fish - Source: US-EPA			
TUNGSTEN	LC50: > 181 mg/L 96 hour(s) Fish - Source: ECHA - Method: OECD 203	EC50: > 163 mg/L 48 hour(s) Daphnia - Source: ECHA - Method: OECD 202		

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.

Bioaccumulative potential**Bioconcentration factor (BCF)**

Mixture : not applicable

Partition coefficient n-octanol/water

Mixture : Product/Substance is inorganic.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

not applicable

Other adverse effects

No information available.

Additional ecotoxicological information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations**Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Waste should not be disposed of by release to water, drainage, sewer, or the ground. Put the broken lamp parts in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a

vacuum cleaner unless it is a special mercury vacuum cleaner to prevent any vaporisation of the mercury. Disposal should be in accordance with applicable regional, national and local laws and regulations. See section: 6.3.1 and 6.3.2.

Other disposal recommendations : not applicable

SECTION 14: Transport information

UN number

UN 3506

UN proper shipping name

MERCURY CONTAINED IN MANUFACTURED ARTICLES

Transport hazard class(es)

8 (6.1)

Packing group

none

Environmental hazards

Marine pollutant : No

Special precautions for user

Hazard identification number (Kemler No.) : none

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

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

No information available.

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

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

International regulations:

Minamata Convention on Mercury : MERCURY

US Federal Regulations

SARA 302

This material, as supplied, does not contain any substances regulated as hazardous substances under the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

SARA 313

This material, as supplied, contains one or more substances regulated as hazardous substances under the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

MERCURY

National regulations

U.S. Clean Water Act Section 307 – Toxic Pollutants

This product contains a substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)..

MERCURY

National inventories

Substance name	TSCA (Active)	DSL (Canada)	NDSL (Canada)
GLASS	not listed.	not listed.	not listed.
MERCURY	listed.	listed.	not listed.
TUNGSTEN	listed.	listed.	not listed.
METALS	not listed.	not listed.	not listed.

Articles are exempted from the US EPA Toxic Substances Control Inventory (TSCA).

SECTION 16: Other information

Date last verification : 2020-05-28
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Additional information

This product contains : 4.4 mg mercury (Hg).

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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