



# PHILIPS

## SAFETY DATA SHEET

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

**Revision date** : 2018-08-28

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**Version number** : 1.0

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

#### Product identifier

SDS : 33619  
Lamp Material Data Sheet code (LMDS) : MH – 12000A  
Supplier : PHILIPS LIGHTING, NORTH AMERICA  
200 Franklin Square Drive  
Somerset, NJ 08873-4186  
Tradename : PHILIPS METAL HALIDE LAMPS  
Other means of identification : MH, MHT, MP, MS Types – All Wattages

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

General description : Mercury Vapor Lamp  
Recommended Use : Various  
Uses advised against : No data available

#### 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 : dangerous.goods@philips.com

#### Emergency telephone number

Emergency telephone number:  
CHEMTREC : +1 (0)800-424-9300

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

### Classification 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.

### Label elements

#### Labelling in accordance with 29 CFR 1910.1200

Label: not applicable

Remarks on labelling: none

### Other hazards

none.

## SECTION 3: Composition/information on ingredients

Component	CAS number
GLAS	65997-17-3
SODIUM IODIDE	7681-82-5
MERCURY	7439-97-6

Remark: The product contains: < 15 mg Mercury

## SECTION 4: First aid measures

### Description of first aid measures

Skin : Not applicable.

Ingestion : Not applicable.

Inhalation : Not applicable.

Eyes : Not applicable.

### 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

## 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.

### Special hazards arising from the substance or mixture

Hazardous decomposition products in fire: Tin oxide, Mercury oxides, metal oxide

### 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

### 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

### 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

### Precautions for safe handling

**Local exhausting** : Under normal circumstances not applicable.

### Conditions for safe storage, including any incompatibilities

**Storage conditions** : No special precautions.

## SECTION 8: Exposure controls/personal protection

### 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 PEL]
TWA (8 hours):	2 mg/m <sup>3</sup>		TIN (inorganic compounds, except oxides)- [according to ACGIH]
TWA (8 hours):	2 mg/m <sup>3</sup>		TIN (inorganic compounds, except oxides)- [according to NIOSH]
TWA (8 hours):	2 mg/m <sup>3</sup>		TIN (inorganic compounds, except oxides) – [according to OSHA PEL]
TWA (8 hours):	2 mg/m <sup>3</sup>		INDIUM- [according to NIOSH]

C=Ceiling; S=Skin

**Remarks exposure limits** : none

**Appropriate engineering controls**: Under normal circumstances not applicable

### 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

<b>Physical state</b>	: article	
<b>Color</b>	: type dependent	
<b>Odor</b>	: odorless	
<b>Odor threshold (20°C; 1013 mbar)</b>	: not traceable	
<b>pH</b>	: not applicable	
<b>Melting point/freezing point</b>	: not traceable	
<b>Boiling point/range</b>	: not traceable	
<b>Flash point/range</b>	: not applicable	
<b>Evaporation rate/range</b>	: not applicable	
<b>Vapor rate/range</b>	: not applicable	
<b>Flammability (solid, gas)</b>	: data not available	
<b>Upper/lower flammability or explosive limit</b>	: not applicable	
<b>Vapor pressure</b>	: not applicable	
<b>Vapor density</b>	: not applicable	
<b>Density</b>	: not traceable	
<b>Solubility in water</b>	: not applicable	
<b>Log Po/w: 4.5</b>	MERCURY	<b>Source</b> : Chemicalcards
<b>Auto-ignition temperature</b>	: not applicable	
<b>Decomposition temperature</b>	: not traceable	
<b>Viscosity</b>	: not applicable	
<b>Dust explosions possible in air</b>	: not applicable	
<b>Oxidizing properties</b>	: no	

## SECTION 10: Stability and reactivity

### Reactivity

Not applicable.

### Chemical stability

The substance or mixture is stable under normal conditions.

### Possibility of hazardous reactions

<b>Reactions with water</b>	: no
<b>Other hazardous conditions</b>	: Data not available.

### Conditions to avoid

Data not available.

### Incompatible materials

<b>Hazardous reactions with</b>	: none
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## Hazardous decomposition products

Hazardous decomposition products at heating: none

## SECTION 11: Toxicological information

### 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

### Toxicity

#### Ecotoxicity

LC-50: 0.004 mg/l/96H (Fish)	MERCURY	<b>Source</b>	: Easi View
EC-50: 0.0205 mg/l/48H (Daphnia)	MERCURY	<b>Source</b>	: IFA- Gestis
IC-50: 0.3 mg/l/72H (Algae)	MERCURY	<b>Source</b>	: Easi View

### Persistence and degradability

Biological oxygen demand:	not applicable
Chemical oxygen demand:	not applicable
Degradability:	not applicable

### Bioaccumulative potential

Bioconcentration factor (BCF) :>2500	MERCURY
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### Mobility in soil

Henry Constant	: Not applicable
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### Other adverse effects

Remarks on eco-toxicity:	none
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## 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

### 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.

### UN proper shipping name

DOT/49CFR : none  
IMDG/IMO : none  
IATA/ICAO : MERCURY CONTAINED IN MANUFACTURED ARTICLES

### Transport hazard class(es)

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

### Packing group

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

### Environmental hazards

Marine pollutant : no

### Special precautions for user

EmS (IMDG/IMO) : none

### 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, Indium, Bismuth, Tin)

## SECTION 16: Other information

**Remarks on SDS** : 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
DSL	Canadian Domestic Substances List
NDSL	Canadian Non-Domestic Substances List

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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.