

# SAFETY DATA SHEET

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

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

### Product identifier

**SDS** : 33622  
**Lamp Material Data Sheet code (LMDS)** : Philips MHC-12000B

\* **Supplier** : Signify North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873-4186

**Tradenname** : METAL HALIDE CERAMIC MHC LAMPS – All Wattages

**Other means of identification** : None.

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

**General description** : Metal Halide Ceramic 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 : hazcom@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
CALCIUM IODIDE	10102-68-8
MERCURY	7439-97-6

Remark: The product contains: 1.63 - 151 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: Mercury oxides

### 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]

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

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
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

### Reactivity

Not applicable.

### Chemical stability

The substance or mixture is stable under normal conditions.

### Possibility of hazardous reactions

Reactions with water	:	no
Other hazardous conditions	:	Data not available.

### Conditions to avoid

Data not available.

**Incompatible materials**

Hazardous reactions with : none

**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	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

#### Persistence and degradability

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

#### Bioaccumulative potential

Bioconcentration factor (BCF) : >2500 MERCURY

#### Mobility in soil

Henry Constant : Not applicable

#### 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

### UN number

ADR/RID	: 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

ADR/RID	: none
IMDG/IMO	: none
IATA/ICAO	: MERCURY CONTAINED IN MANUFACTURED ARTICLES

### Transport hazard class(es)

ADR/RID : none	IMDG/IMO : none	IATA/ICAO : 8 (6.1)
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### Packing group

ADR/RID : none	IMDG/IMO : none	IATA/ICAO : none
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### Environmental hazards

Marine pollutant : no

### Special precautions for user

Hazard identification number (ADR/RID) : none

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, Sodium iodide)

This substance is on the NDSL (Calcium iodide)

## SECTION 16: Other information

**Remarks on SDS** : Toxic mercury vapors can be released if the lamp is broken.  
For transport exemptions consult applicable regulations.

Exemption values krypton-85: 1.E4 Bq, 1.E5 Bq/g.

The product contains 0 – 34 kBq krypton-85.

Activity concentration krypton-85: 0 – 6.660 kBq/g.

#### **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
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
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.

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