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

Revision date : 2019-01-25
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Version number : 1.2

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

Product identifier

SDS : 33614
Lamp Material Data Sheet code (LMDS) : Philips CFN-10001B

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

Tradename
: PHILIPS COMPACT FLUORESCENT LAMPS CFL-ni - ALL TYPES

Other means of identification

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

General description
: Compact Fluorescent 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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>INERT MATERIAL</td>
<td>-</td>
</tr>
<tr>
<td>FLUORESCENT POWDER</td>
<td>-</td>
</tr>
<tr>
<td>KRYPTON(^{85})</td>
<td>139883-27-2</td>
</tr>
<tr>
<td>INDIUM</td>
<td>7440-74-6</td>
</tr>
<tr>
<td>MERCURY</td>
<td>7439-97-6</td>
</tr>
<tr>
<td>BISMUTH</td>
<td>7440-69-9</td>
</tr>
</tbody>
</table>

Remark: The product contains: 1.4 - 3.5 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/m³ S MERCURY- [according to ACGIH]

TWA (8 hours): 0.1 mg/m³ C MERCURY- [according to NIOSH]
TWA (8 hours): 0.1 mg/10m³ C MERCURY – [according to OSHA PEL]

TWA (8 hours): 2 mg/m³ 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

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

Auto-ignition temperature: not applicable
Decomposition temperature: not traceable
Viscosity: not applicable
Dust explosions possible in air: not applicable
Oxidizing properties: no

Source: Chemicalcards

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.
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
- 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)

Packing group
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)

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
* 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.