

## Safety Data Sheet for Transportation, HgCd Lamp

Not subject to Dangerous Goods Regulation

### 0. Advisory Note

Safety Data Sheet for Transportation is not subject to national regulation, provides knowledge and advice regarding practices of transportation, in relation with dangerous goods regulation. This document is subject to revision without further notice. For use and handling of lamps, see user information of retail package or contact your SHIMADZU sales manager.

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### 1. Product and Company Identification

#### 1.1 Name of Product

This type of discharge lamp generates light between two metal electrodes. For stable and defined operation, glass bulb contains a low quantity of hazardous substances (Liquid Mercury: 3mg Typical And Solid Cadmium: 20mg Typical). There are no other significant substances contained.

Part Number: S651-39273-05,S651-69092-03,S651-69092-23  
Product Name: HgCd LAMP, HgCd/10 for REFRACTOMETER  
Manufacturer Model Name: OSRAM SPECTRAL LAMP HgCd

#### 1.2 Company Identification

Company Name: Shimadzu Device Corporation  
Address: 250 Tokimata, Iida-shi, Nagano 399-2563, Japan  
Phone: +81-265-26-9121  
Facsimile Number: +81-265-26-9120  
Emergency Contact: kalnew@group.shimadzu.co.jp  
Manufacturer Name: OSRAM GmbH (80807 Munich, Germany)

#### 1.3 Recommended Applications

Measurement of glass refractive indices

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### 2. Hazards Identification

Lamps are manufactured articles for end consumers, subject to corporate quality management and delivered in safe packaging. Regulation for hazardous substances is not applicable for consumer products.

- There are no immediate hazards to health by substances contained in the lamp, as long as the lamp bulb is undamaged.
- In case of broken lamp bulbs, avoid contact of skin with the sharp shades of glass or metal.
- Immediately after bulb is broken, the low quantity of hazardous substance will be affixed at the inner surface of the glass bulb or its components or will fade away into environment. There is no potential of posing significant risk for health by this low quantity of substance.

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### 3. Transportation Information

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Transportation in SHIMADZU retail packaging is not subject to dangerous goods regulation. This lamp type contains material meeting classification criteria of dangerous goods but below threshold for declaration.

#### 3.1 International Regulations (IATA)

UN No.: 3506  
Ocean Polluting Substances: Not applicable

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### 4. Risks of Fire and Fire-Fighting Measures

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#### 4.1 Risks of Fire and Explosion

Lamps and all its components are not flammable. In case liquid metal in glass bulb or its compound spilt, use drying sand and avoid water spray

#### 4.2 Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire.

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### 5. Accidental Release Measures

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In case of an accident, stay calm and care for people in the near environment. There are no immediate hazards to health by lamps as long as the lamp bulb is undamaged.

In case of broken lamp bulb:

- Avoid contact of skin with sharp shades of glass or metal.
    - o Use of gloves recommended protecting skin from injuries.
    - o If skin is injured, apply medical service as appropriate.
  - If accident happened in closed room, ventilate the near environment with fresh air.
  - Clean the ground and other surfaces.
    - o Do not eat during cleaning procedure to avoid swallowing small parts of the broken lamp.
    - o Carefully remove all fragments of the broken lamp.
    - o Use of vacuum cleaner recommended if fragments on uneven or rough surface.
  - Dispose lamp fragments as locally regulated.
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### 6. First-Aid Measures

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This lamp type does not contain much of hazardous substances. In case of broken lamps:

- Skin injury: apply medical service as appropriate.
  - Eye contamination with solid material: rinse out with plenty of water for 1 minute with the eyelid wide open. Look for help by an ophthalmologist if medical service is necessary.
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### 7. Disposal Considerations

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For disposal of lamps or its components, follow local regulation for disposal. Especially in member states of the European Union, there is national regulation based on the Waste Electrical and Electronic Equipment Directive (WEEE Directive 2012/19/EU).

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### 8. Other Information

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Read also attached reference document, Manufacturer's MSDS for Transportation.

"Material Safety Data Sheet for Transportation: OSRAM Spectral Lamps"