



Environmental information on metal-halide lamps (HQI®)

• Product description and operating information

OSRAM metal-halide lamps are lamps in the HQI® family in which the discharge arc burns at pressure in an atmosphere of halogen and mercury vapour and rare earths. Metal-halide lamps are available in wattages from 35 W to 2000 W.

When the high-wattage lamps are in the cold state, in other words at room temperature (21 °C), the mercury is generally present in the form of small metallic droplets in the discharge vessel (burner). When the lamp is started, the mercury vaporises as the temperature in the burner rises and heats up in the arc between the electrodes. The temperature of the outer bulb is several 100 °C. When thermal equilibrium is reached, the mercury vapour exerts a pressure of up to max. 15 bar on the burner.

Mercury fillers for the OSRAM HQI® lamp family

Wattage	Mercury
35W	max. 5 mg
70W	max. 10 mg
150W	max. 15 mg
250W	max. 20 mg
300W to 2000W	max. 250 mg

• Health risks

Inhaling mercury or mercury compounds in vapour or powder form can lead to health problems. Mercury can also be absorbed through the skin. The lamp may only be operated with its outer bulb intact as otherwise the intense UV radiation escaping from the lamp may damage eyes and cause skin irritation.

• Protection against lamp breakages

In case of destruction of the outer bulb lamp must be switched off

To avoid health risks we recommend the following procedure in the event of break of the burner :

- In the immediate vicinity leave the room to avoid inhaling mercury vapour.
- Remove all fragments carefully
- The room should be carefully ventilated.
- Once the luminaire has cooled down and certainly before it is used again, all residual mercury must be thoroughly removed from the inside of the luminaire. To avoid contact with the skin, we recommend the use of disposable gloves.

• Disposal of used metal halide lamps

Since metal-halide lamps contain noxious substances (particularly mercury) they have to be disposed of in Europe as special waste under

EWC Code 20 01 21* “Fluorescent tubes and other mercury-containing waste”

Metal-halide lamps are affected in EU by the scope of WEEE and can be disposed free of charge from private households and small consumers at all communal disposal facilities. More information under www.osram.com/about_us/environment/weee/index.html and your national OSRAM partner.

In other countries the relevant national regulations must be followed.

• OSRAM contact address

If you need further information please contact your OSRAM sales partner or the Environmental Affairs & Technical Safety in Munich:

Tel.: +49 (0) 89 6213 3309

Fax: +49 (0) 89 6213 3463

Email: infoline@osram.com

Subject to change without notice