
LIGHT AND ENVIRONMENT

PRODUCT ENVIRONMENTAL INFORMATION ON TUNGSTEN-HALOGEN LAMPS

- **Product description**

LEDVANCE markets under the OSRAM® brand among other lamp families „HALOGEN CLASSIC“, „HALOGEN SPOT“, „HALOPIN“, DECOPIN“, „HALOPAR“, „HALOLINE“, „HALOSTAR“, HALOSPOT“, DECOSTAR“ Products.

Tungsten-halogen lamps contain a filler gas that is 99% or more a chemically inert gas. A small proportion (<1%) of halogen gases is added to the filler gas in form of organic compounds (e.g. dibromomethane). Due to the high temperatures at the tungsten wire filament when the lamp is switched on for the first time in the production process) the organic halogen compounds are destroyed and tungsten-halogen compounds are formed (such as tungsten bromide). These very small quantities of halogens in the filler gas give rise to the "halogen cycle" which ensures that the tungsten metal vaporised at high filament temperatures does not condense on the glass bulb but is returned to the filament material. Compared to standard incandescent lamps, LEDVANCE tungsten-halogen lamps provide higher energy efficiency and longer product lifetime.

- **Environmental impact**

Tungsten-halogen lamps do not contain substances hazardous to the environment and they do not cause environmental risks in case of breakage.

- **Health risks**

LEDVANCE Tungsten-halogen lamps do not contain hazardous substances and do not pose a risk to the user in case of breakage.

- **Legal requirements (EU)**

The tungsten-halogen lamps are covered by the EU Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (“RoHS”). See www.ledvance.com/rohs.

Information on Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (“REACH”) see www.ledvance.com/reach.

- **Disposal of used incandescent lamps**

No special measures are needed for disposing of these lamps. Tungsten-halogen lamps are not in the scope of EU Directive 2002/96/EC and respectively EU Directive 2012/19/EU (Recast) on waste electrical and electronic equipment (“WEEE”), implemented in the EU by national legislation.

- **Technical information**

Specific technical information can be found in the internet in LEDVANCE product data sheets: <https://www.ledvance.com/products/lamps/halogen-lamps/index.jsp>



- **LEDVANCE contact address**

If you need further information, please contact your LEDVANCE sales partner or directly our department for Security, Environment, Health and Safety (SEHS):

Email: environment@ledvance.com

Status: December 2016, Subject to change without notice