

## Environmental information on headlight lamps XENARC® electronic D3 and XENARC® D4

- **Product description**

Xenarc® headlight lamps of the D3 and D4 family are mercury-free discharge lamps which shall be operated in vehicles only with the designated XENAELECTRON® electronic control gears.

- **Lamp filling**

The lamp contains a compressed pill of sodium, scandium and zinc iodide of 0.45 mg.

The above-mentioned concentrations show that the materials contained in the lamp are present in such low concentrations that they pose no health risks. This applies even if there is direct skin contact in case of lamp breakage.

- **Electrode**

In D lamps a thoriated tungsten electrode is used to improve ignition and guarantee stability throughout the service life of the lamp. The total activity of one lamp is max. 1 Bq Th-232 (the specific activity of the electrode composition results: <36 Bq/g). Thorium is a naturally occurring radioactive element.

- **Igniter**

The igniter integrated in the base of a D3 lamp is built up in 'lead frame' design, which means it does not have a printed circuit board. The materials used in the igniter including plastics are of no relevance to the environment regarding their disposal.

- **Environmental impact**

Lamps of the D3 and D4 family and the materials contained in them do not pose noteworthy environmental or health risks, even in case of lamp breakage.

- **Legal requirements (EU)**

In the EU and several other countries, Xenarc® headlight lamps have to fulfil the requirements of EU Directive 2000/53/EC - End-Of-Life Vehicle.

For information on Regulation (EC) No 1907/2006 regarding the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") see [www.osram.de/reach](http://www.osram.de/reach).

- **Disposal**

As D3 and D4 headlight lamps do not contain hazardous substances no special measures are needed for disposing of these lamps.

D3 and D4 lamps shall only be changed by professionals, e.g. in car repair stations.

Lamps at end of life are usually taken back by these car repair stations.

- **OSRAM contact address**

If you need further information please contact your OSRAM sales partner or the department *Environment, Health and Safety*- (EHS) in Munich:

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