

Environmental information for HALOTRONIC®

- **Product description**

Electronic control gear represents an important milestones on the way to the energy-efficient lighting. In addition to offering economic benefits, the use of electronic control gear helps protect the environment.

The components used (resistors, capacitors, transformers and transistors) are of simple design.

Electronic capacitors are foil-type capacitors and contain ethylene glycol as the electrolyte. Generally, electrolytic capacitors do not contain PCBs or associated compounds.

The PCBs consist of epoxy resin, impregnated or glass-fibre-reinforced laminated paper. The PCBs contain tetrabromobisphenol A as the fire retardant. Polybrominated biphenyl or diphenyl ethers are not used.

Control gears in the HALOTRONIC® family are silicon-free (< 2 µg absolute). Components containing PVC are not used.

The products are in compliance with directive 2002/95/EC RoHS.

- **Behaviour in fire**

The requirements of DIN EN 60695-2-2 (Testing with needle flame), 10 seconds severity, are met. The material of the plastic casing complies with the requirements of UL 94 IEC 707 in terms of flammability. Since electronic control gear contain flame retardants made from bromine for reasons of operational safety, there is a risk that polybromated dibenzodioxanes and furanes will be produced in the event of a fire. This is generally true however when organic material containing halogens burns.

As far as we know at present, however, the flame retardants containing bromine that we are currently using will not form the particularly toxic chlorinated dioxins of furanes.

- **Disposal of used electronic control gear**

The electronic control gear can be disposed on in the EU under

EEC code 20 01 36 "Used electrical and electronic equipment".

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:

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Subject to change