



# PHILIPS

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## Declaration of Non Inclusion of Hazardous Substances in Products

### EU Restriction on Hazardous Substances (RoHS)

Philips Semiconductors hereby declares that all of or part of products, including, but not limited to, the peripherals, accessories or packages, manufactured and/or delivered to your company (including your subsidiaries and affiliated company) directly or indirectly by our company (including our subsidiaries or affiliated companies) do not intentionally contain any of the substances listed in all applicable EU directives and regulations, including the following substances.

- |   |                                  |
|---|----------------------------------|
| 1. <b>Cadmium and cadmium compounds,</b>                  | threshold <b>0.01% of weight</b> |
| 2. <b>PBB and PBDE (halogenated flame retardant),</b>     | threshold <b>0.1% of weight</b>  |
| 3 Chlorinated paraffin and perchloropentacyclodecane,     | threshold 10 ppm                 |
| 4. Polychlorinated biphenyl (PCB) and naphthalene,        | threshold 10 ppm                 |
| 5. <b>Mercury</b>   | threshold <b>0.1% of weight</b>  |
| 6. Organic tin compounds (Tributyl tin and Triphenyl tin) | threshold 10 ppm                 |
| 7. Asbestos,  | threshold 10 ppm                 |
| 8. <b>Chromium (VI),</b>                                  | threshold <b>0.1% of weight</b>  |
| 9. Azo compounds,   | threshold 10 ppm                 |
| 10. <b>Lead and Lead Compounds</b>                        | threshold <b>0.1% of weight</b>  |

note 1: **In bold** the so called 'RoHS' substances

note 2: **Flame retardants**

The plastic encapsulation used in our products is usually based on ortho cresol novolac (OCN)-epoxy, biphenyl or multifunctional- epoxy, filled with quartz particles (fused or crystalline) of approximately 70% of weight. Generally, antimony trioxide and tetrabromobiphenol-A (TBBA) are present as flame-retardants. The TBBA will be incorporated in the epoxy-polymer after curing so that **no** TBBA is present in the finished device. It has become a partially brominated epoxy.

### Declaration Threshold Limit Value (TLV)

The TLV for the 'RoHS' substances are currently under review in the EU Member States. The ppm mentioned do not represent any legal limits, but refer to currently accepted analysis methods.

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