

ANNEX

[^{F1}Applications of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) which are exempted from the requirements of Article 4(1)]

Textual Amendments

F1 Substituted by [Commission Decision of 13 October 2005 amending for the purposes of adapting to the technical progress the Annex to Directive 2002/95/EC of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment \(notified under document number C\(2005\) 3754\) \(Text with EEA relevance\) \(2005/717/EC\)](#).

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.
2. Mercury in straight fluorescent lamps for general purposes not exceeding:

—	halophosphate	10 mg
—	triphosphate with normal lifetime	5 mg
—	triphosphate with long lifetime	8 mg.

3. Mercury in straight fluorescent lamps for special purposes.
 4. Mercury in other lamps not specifically mentioned in this Annex.
 5. Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.
 6. Lead as an alloying element in steel containing up to 0,35 % lead by weight, aluminium containing up to 0,4 % lead by weight and as a copper alloy containing up to 4 % lead by weight.
- [^{F27}.
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead),
 - lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications,
 - lead in electronic ceramic parts (e.g. piezoelectronic devices).]

Textual Amendments

F2 Substituted by [Commission Decision of 21 October 2005 amending for the purposes of adapting to technical progress the Annex to Directive 2002/95/EC of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment \(notified under document number C\(2005\) 4054\) \(Text with EEA relevance\) \(2005/747/EC\)](#).

- [^{F28}. Cadmium and its compounds in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC⁽¹⁾ amending Directive 76/769/EEC⁽²⁾ relating to restrictions on the marketing and use of certain dangerous substances and preparations.]

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9. Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators.

[^{F3}9a. DecaBDE in polymeric applications.]

Textual Amendments

F3 Inserted by [Commission Decision of 13 October 2005 amending for the purposes of adapting to the technical progress the Annex to Directive 2002/95/EC of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment \(notified under document number C\(2005\) 3754\) \(Text with EEA relevance\) \(2005/717/EC\)](#).

[^{F3}9b. Lead in lead-bronze bearing shells and bushes.]

10. Within the procedure referred to in Article 7(2), the Commission shall evaluate the applications for:

- Deca BDE,
- mercury in straight fluorescent lamps for special purposes,
- lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications (with a view to setting a specific time limit for this exemption), and
- light bulbs,

as a matter of priority in order to establish as soon as possible whether these items are to be amended accordingly.

[^{F4}11. Lead used in compliant pin connector systems.

Textual Amendments

F4 Inserted by [Commission Decision of 21 October 2005 amending for the purposes of adapting to technical progress the Annex to Directive 2002/95/EC of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment \(notified under document number C\(2005\) 4054\) \(Text with EEA relevance\) \(2005/747/EC\)](#).

12. Lead as a coating material for the thermal conduction module c-ring.
13. Lead and cadmium in optical and filter glass.
14. Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight.
15. Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages.]

[^{F5}16. Lead in linear incandescent lamps with silicate coated tubes.

Textual Amendments

F5 Inserted by [Commission Decision of 21 April 2006 amending, for the purposes of adapting to the technical progress, the Annex to Directive 2002/95/EC of the European Parliament and of the Council as regards exemptions for applications of lead \(notified under document number C\(2006\) 1622\) \(Text with EEA relevance\) \(2006/310/EC\)](#).

17. Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications.
18. Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP ($\text{BaSi}_2\text{O}_5:\text{Pb}$) as well as when used as speciality lamps for diazo-printing reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ($(\text{Sr},\text{Ba})_2\text{MgSi}_2\text{O}_7:\text{Pb}$).
19. Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact Energy Saving Lamps (ESL).
20. Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCD).]
- [^{F6}21. Lead and cadmium in printing inks for the application of enamels on borosilicate glass.

Textual Amendments

F6 Inserted by [Commission Decision of 12 October 2006 amending, for the purposes of adapting to technical progress, the Annex to Directive 2002/95/EC of the European Parliament and of the Council as regards exemptions for applications of lead and cadmium \(notified under document number C\(2006\) 4790\) \(Text with EEA relevance\) \(2006/691/EC\)](#).

- [^{F7}22. Lead as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communication systems until 31 December 2009.]

Textual Amendments

F7 Substituted by [Commission Decision of 4 June 2009 amending, for the purposes of adapting to technical progress, the Annex to Directive 2002/95/EC of the European Parliament and of the Council as regards the exemption for an application of lead as impurity in RIG Faraday rotators used for fibre optic communication systems \(notified under document number C\(2009\) 4165\) \(Text with EEA relevance\) \(2009/428/EC\)](#).

23. Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead frames.
24. Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors.
25. Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes.

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26. Lead oxide in the glass envelope of Black Light Blue (BLB) lamps.
27. Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers.]
- [^{F8}28. Hexavalent chromium in corrosion preventive coatings of unpainted metal sheetings and fasteners used for corrosion protection and Electromagnetic Interference Shielding in equipment falling under category three of Directive 2002/96/EC (IT and telecommunications equipment). Exemption granted until 1 July 2007.]

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Textual Amendments

- F8** Inserted by [Commission Decision of 12 October 2006 amending, for the purposes of adapting to technical progress, the Annex to Directive 2002/95/EC of the European Parliament and of the Council as regards exemptions for applications of hexavalent chromium \(notified under document number C\(2006\) 4791\) \(Text with EEA relevance\) \(2006/692/EC\).](#)

- [^{F9}29. Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC⁽³⁾.]

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Textual Amendments

- F9** Inserted by [Commission Decision of 12 October 2006 amending, for the purposes of adapting to technical progress, the Annex to Directive 2002/95/EC of the European Parliament and of the Council as regards exemptions for applications of lead in crystal glass \(notified under document number C\(2006\) 4789\) \(Text with EEA relevance\) \(2006/690/EC\).](#)

- [^{F10}For the purposes of Article 5(1)(a), a maximum concentration value of 0,1 % by weight in homogeneous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and of 0,01 % by weight in homogeneous materials for cadmium shall be tolerated.]

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Textual Amendments

- F10** Inserted by [Commission Decision of 18 August 2005 amending Directive 2002/95/EC of the European Parliament and of the Council for the purpose of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment \(notified under document number C\(2005\) 3143\) \(2005/618/EC\).](#)

- [^{F11}30. Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more.

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Textual Amendments

- F11** Inserted by [Commission Decision of 24 January 2008 amending, for the purposes of adapting to technical progress, the Annex to Directive 2002/95/EC of the European Parliament and of the Council as regards exemptions for applications of lead and cadmium \(notified under document number C\(2008\) 268\) \(Text with EEA relevance\) \(2008/385/EC\).](#)

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31. Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting).
32. Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes.]
- [^{F12}33. Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers.

Textual Amendments

F12 Inserted by [Commission Decision of 10 June 2009 amending, for the purposes of adapting to technical progress, the Annex to Directive 2002/95/EC of the European Parliament and of the Council as regards exemptions for applications of lead, cadmium and mercury \(notified under document number C\(2009\) 4187\) \(Text with EEA relevance\) \(2009/443/EC\).](#)

34. Lead in cermet-based trimmer potentiometer elements.
35. Cadmium in photoresistors for optocouplers applied in professional audio equipment until 31 December 2009.
36. Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display until 1 July 2010.
37. Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body.
38. Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide.]
- [^{F13}39. Cadmium in colour-converting II-VI LEDs (< 10 µg Cd per mm² of light-emitting area) for use in solid state illumination or display systems until 1 July 2014.]

Textual Amendments

F13 Inserted by [Commission Decision of 25 February 2010 amending, for the purposes of adapting to scientific and technical progress, the Annex to Directive 2002/95/EC of the European Parliament and of the Council as regards an exemption for an application of cadmium \(notified under document C\(2010\) 1034\) \(Text with EEA relevance\) \(2010/122/EU\).](#)

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- (1) [^{F2}OJ L 186, 12.7.1991, p. 59.
- (2) OJ L 262, 27.9.1976, p. 201.]
- (3) [^{F9}OJ L 326, 29.12.1969, p. 36. Directive as last amended by 2003 Act of Accession.]

Textual Amendments

- F2** Substituted by Commission Decision of 21 October 2005 amending for the purposes of adapting to technical progress the Annex to Directive 2002/95/EC of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (notified under document number C(2005) 4054) (Text with EEA relevance) (2005/747/EC).
- F9** Inserted by Commission Decision of 12 October 2006 amending, for the purposes of adapting to technical progress, the Annex to Directive 2002/95/EC of the European Parliament and of the Council as regards exemptions for applications of lead in crystal glass (notified under document number C(2006) 4789) (Text with EEA relevance) (2006/690/EC).