

Commission Directive 2013/28/EU of 17 May 2013 amending  
Annex II to Directive 2000/53/EC of the European Parliament and  
of the Council on end-of-life vehicles (Text with EEA relevance)

COMMISSION DIRECTIVE 2013/28/EU

of 17 May 2013

amending Annex II to Directive 2000/53/EC of the European  
Parliament and of the Council on end-of-life vehicles

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2000/53/EC of the European Parliament and of the Council of 18 September 2000 on end-of life vehicles<sup>(1)</sup>, and in particular Article 4(2)(b) thereof,

Whereas:

- (1) Article 4(2)(a) of Directive 2000/53/EC prohibits the use of lead, mercury, cadmium or hexavalent chromium in materials and components of vehicles put on the market after 1 July 2003.
- (2) Annex II to Directive 2000/53/EC lists vehicle materials and components exempted from the prohibition set out in Article 4(2)(a) thereof. Vehicles put on the market before the expiry date of a given exemption and spare parts for those vehicles may contain lead, mercury, cadmium or hexavalent chromium in materials and components listed in Annex II to Directive 2000/53/EC.
- (3) Item 8(i) of Annex II provides for an exemption for lead in solders in electrical glazing applications on glass except for soldering in laminated glazing, which expires on 1 January 2013.
- (4) An assessment of technical and scientific progress has demonstrated that the use of lead in the application covered by item 8(i) is unavoidable, as the substitutes are not yet available.
- (5) The measures provided for in this Directive are in accordance with the opinion of the Committee established by Article 39 of Directive 2008/98/EC of the European Parliament and of the Council<sup>(2)</sup>,

HAS ADOPTED THIS DIRECTIVE:

*Article 1* **U.K.**

Annex II to Directive 2000/53/EC is replaced by the text set out in the Annex to this Directive.

---

*Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.*

---

Article 2 **U.K.**

1 Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive at the latest within three months of its publication in the *Official Journal of the European Union*. They shall forthwith communicate to the Commission the text of those provisions.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

2 Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

Article 3 **U.K.**

This Directive shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

Article 4 **U.K.**

This Directive is addressed to the Member States.

Done at Brussels, 17 May 2013.

*For the Commission*

*The President*

José Manuel BARROSO

---

*Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.*

---

## ANNEX U.K.

‘ANNEXMaterials and components exempt from Article 4(2)(a)This exemption shall be reviewed in 2015.Dismantling if, in correlation with entry 10(a), an average threshold of 60 grams per vehicle is exceeded. For the application of this clause electronic devices not installed by the manufacturer on the production line shall not be taken into account.This exemption shall be reviewed in 2014.Dismantling if, in correlation with entries 8(a) to 8(j), an average threshold of 60 grams per vehicle is exceeded. For the application of this clause electronic devices not installed by the manufacturer on the production line shall not be taken into account.This clause shall not apply to wheel balance weights, carbon brushes for electric motors and brake linings.’Notes:— A maximum concentration value up to 0,1 % by weight and in homogeneous material, for lead, hexavalent chromium and mercury and up to 0,01 % by weight in homogeneous material for cadmium shall be tolerated.— The re-use of parts of vehicles which were already on the market at the date of expiry of an exemption shall be allowed without limitation since it is not covered by Article 4(2)(a).— Spare parts put on the market after 1 July 2003 which are used for vehicles put on the market before 1 July 2003 shall be exempted from the provisions of Article 4(2)(a).Materials and componentsScope and expiry date of the exemptionTo be labelled or made identifiable in accordance with Article 4(2)(b)(iv)Lead as an alloying element1(a) Steel for machining purposes and batch hot dip galvanised steel components containing up to 0,35 % lead by weight 1(b) Continuously galvanised steel sheet containing up to 0,35 % lead by weight Vehicles type approved before 1 January 2016 and spare parts for these vehicles2(a) Aluminium for machining purposes with a lead content up to 2 % by weight As spare parts for vehicles put on the market before 1 July 20052(b) Aluminium with a lead content up to 1,5 % by weight As spare parts for vehicles put on the market before 1 July 20082(c) Aluminium with a lead content up to 0,4 % by weight 3. Copper alloy containing up to 4 % lead by weight 4(a) Bearing shells and bushes As spare parts for vehicles put on the market before 1 July 20084(b) Bearing shells and bushes in engines, transmissions and air conditioning compressors 1 July 2011 and spare parts for vehicles put on the market before 1 July 2011Lead and lead compounds in components5. Batteries X6. Vibration dampers Vehicles type approved before 1 January 2016 and spare parts for these vehiclesX7(a) Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings As spare parts for vehicles put on the market before 1 July 20057(b) Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings containing up to 0,5 % lead by weight As spare parts for vehicles put on the market before 1 July 20067(c) Bonding agents for elastomers in powertrain applications containing up to 0,5 % lead by weight

---

*Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.*

---

As spare parts for vehicles put on the market before 1 July 20098(a)  
Lead in solders to attach electrical and electronic components to electronic circuit boards and lead in finishes on terminations of components other than electrolyte aluminium capacitors, on component pins and on electronic circuit boards  
Vehicles type approved before 1 January 2016 and spare parts for these vehiclesX8(b)  
Lead in solders in electrical applications other than soldering on electronic circuit boards or on glass  
Vehicles type approved before 1 January 2011 and spare parts for these vehiclesX8(c)  
Lead in finishes on terminals of electrolyte aluminium capacitors  
Vehicles type approved before 1 January 2013 and spare parts for these vehiclesX8(d)  
Lead used in soldering on glass in mass airflow sensors  
Vehicles type approved before 1 January 2015 and spare parts of such vehiclesX8(e)  
Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)  
X8(f)  
Lead in compliant pin connector systems  
X8(g)  
Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages  
X8(h)  
Lead in solder to attach heat spreaders to the heat sink in power semiconductor assemblies with a chip size of at least 1 cm<sup>2</sup> of projection area and a nominal current density of at least 1 A/mm<sup>2</sup> of silicon chip area  
X8(i)  
Lead in solders in electrical glazing applications on glass except for soldering in laminated glazing  
Vehicles type approved before 1 January 2016 and after that date as spare parts for these vehiclesX8(j)  
Lead in solders for soldering in laminated glazing  
X9.  
Valve seats  
As spare parts for engine types developed before 1 July 200310(a)Electrical and electronic components which contain lead in a glass or ceramic, in a glass or ceramic matrix compound, in a glass-ceramic material, or in a glass-ceramic matrix compound. This exemption does not cover the use of lead in:  
— glass in bulbs and glaze of spark plugs,  
— dielectric ceramic materials of components listed under 10(b), 10(c) and 10(d)  
X (for components other than piezo in engines)10(b)  
Lead in PZT based dielectric ceramic materials of capacitors being part of integrated circuits or discrete semiconductors  
10(c)  
Lead in dielectric ceramic materials of capacitors with a rated voltage of less than 125 V AC or 250 V DC  
Vehicles type approved before 1 January 2016 and spare parts for these vehicles10(d)  
Lead in the dielectric ceramic materials of capacitors compensating the temperature-related deviations of sensors in ultrasonic sonar systems  
11.  
Pyrotechnic initiators  
Vehicles type approved before 1 July 2006 and spare parts for these vehicles12.  
Lead-containing thermoelectric materials in automotive electrical applications to reduce CO<sub>2</sub> emissions by recuperation of exhaust heat

*Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.*

---

Vehicles type approved before 1 January 2019 and spare parts for these vehiclesXHexavalent chromium13(a)

Corrosion preventive coatings

As spare parts for vehicles put on the market before 1 July 200713(b)

Corrosion preventive coatings related to bolt and nut assemblies for chassis applications

As spare parts for vehicles put on the market before 1 July 200814.

As an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators in motorcaravans up to 0,75 weight -% in the cooling solution except where the use of other cooling technologies is practicable (i.e. available on the market for the application in motor caravans) and does not lead to negative environmental, health and/or consumer safety impacts

XMercury15(a)

Discharge lamps for headlight application

Vehicles type approved before 1 July 2012 and spare parts for these vehiclesX15(b)

Fluorescent tubes used in instrument panel displays

Vehicles type approved before 1 July 2012 and spare parts for these vehiclesXCadmium16.

Batteries for electrical vehicles

As spare parts for vehicles put on the market before 31 December 2008

---

**Status:** EU Directives are being published on this site to aid cross referencing from UK legislation. After  
IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

---

- (1) [OJ L 269, 21.10.2000, p. 34.](#)
- (2) [OJ L 312, 22.11.2008, p. 3.](#)