

Table A4 The usage of the substances are specified as the application excluded from applicability in EU-ELV Directive

Materials and components	Scope and expiry date of the exemption	To be labelled or made identifiable in accordance with Article 4 (2) (b) (iv)	revision
Lead as an alloying element			
1 (a) . Steel for machining purposes and batch hot dip galvanised steel components containing up to 0,35 % lead by weight			REV5.1
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 vehicles		REV5.1
2 (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 2005		REV5.1
2 (b) . Aluminium with a lead content up to 1,5 % by weight	As spare parts for vehicles put on the market before 1 July 2008		REV5.1
2 (c) . Aluminium with a lead content up to 0,4 % by weight	(2)		REV5.1
3. Copper alloy containing up to 4 % lead by weight	(2)		REV5.1
4 (a) . Bearing shells and bushes	As spare parts for vehicles put on the market before 1 July 2008		REV5.1
4 (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 2011		REV5.1
Lead and lead compounds in components			
5. Batteries	(2)	X	REV5.1
6. Vibration dampers	Vehicles type approved before 1 January 2016 and spare parts for these vehicles	X	REV5.1
7 (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 2005		REV5.1
7 (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 2006		REV5.1
7 (c) . Bonding agents for elastomers in powertrain applications containing up to 0,5 % lead by weight	As spare parts for vehicles put on the market before 1 July 2009		REV5.1
8 (a) . Lead in solders to attach electrical and electronic components to electronic circuit boards and lead in finishes on electrolyte aluminium capacitors, on component pins and on electronic component pins and on electronic circuit boards	Vehicles type approved before 1 January 2016 and spare parts for these vehicles	X (1)	REV5.1

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8(b). Lead in solders in electrical applications other than soldering on electronic circuitboards or on glass other than soldering on electronic circuitboards or on glass	Vehicles type approved before 1 January 2011 and spare parts for these vehicles	X (1)	REV5.1
8(c). Lead in finishes on terminals of electrolyte aluminium capacitors	Vehicles type approved before 1 January 2013 and spare parts for these vehicles	X (1)	REV5.1
8(d). Lead used in soldering on glass in mass air flow sensors	Vehicles type approved before 1 January 2015 and spare parts of such vehicles	X (1)	REV5.1
8(e). Lead in high melting temperature types solders (i.e. lead-based alloys containing 85 % by weight or more lead)	(3)	X (1)	REV5.1
8(f). Lead in compliant pin connector systems	(3)	X (1)	REV5.1
8(g). Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit 8(h). Lead in solder to attach heat spreaders to	(3)	X (1)	REV5.1
8(h). Lead in solder to attach heat spreaders to the heat sink in power semiconductor assemblies with a chip size of at least current density of at least 1 A/mm ² of silicon chip area silicon chip area	(3)	X (1)	REV5.1
8(i). Lead in solders in electrical glazing applications on glass except for soldering in laminated glazing	Vehicles type approved before 1 January 2013 and spare parts for these vehicles (4)	X (1)	REV5.1
8(j). Lead in solders for soldering in laminated glazing	(3)	X (1)	REV5.1
9. Valve seats	As spare parts for engine types developed before 1 July		REV5.1
10(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:		X (5) (for	REV5.1
— glass in bulbs and glaze of sparkplugs,			REV5.1
— dielectric ceramic materials of components listed under 10(b), 10(c) and 10(d).		components other than piezo in engines)	REV5.1
10(b). Lead in PZT based dielectric ceramic materials of capacitors being part of integrated circuits or discrete semiconductors			REV5.1
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 vehicles		REV5.1
10(d). Lead in the dielectric ceramic materials of capacitors compensating the temperature-related deviations of sensors in ultrasonic sonar systems	(3)		REV5.1

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11. Pyrotechnic initiators	Vehicles type approved before 1 July 2006 and spare parts for these vehicles		REV5.1
12. Lead-containing thermoelectric materials in automotive electrical applications to reduce CO ₂ emissions by recuperation of exhaust heat	Vehicles type approved before 1 January 2019 and spare parts for these vehicles	X	REV5.1
Hexavalent chromium			
13(a). Corrosion preventive coatings	As spare parts for vehicles put on the market before 1 July 2007		REV5.1
13(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 2008		REV5.1
14. 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			REV5.1
Mercury			
15(a). Discharge lamps for headlight application	Vehicles type approved before 1 July 2012 and spare parts for these vehicles	X	REV5.1
15(b). Fluorescent tubes used in instrument panel displays	Vehicles type approved before 1 July 2012 and spare parts for these vehicles	X	REV5.1
Cadmium			
16. Batteries for electrical vehicles	As spare parts for vehicles put on the market before 31 December 2008	X	REV5.1

- (1) Dismantling if, in correlation with entry 10(a), an average threshold of 60 grams
- (2) This exemption shall be reviewed in 2015.
- (3) This exemption shall be reviewed in 2014.
- (4) This exemption shall be reviewed before 1 January 2012.
- (5) Dismantling if, in correlation with entries 8(a) to 8(j), an average threshold of

Notes:

- A maximum concentration value up to 0,1 % by weight and in homogeneous material, for
- The re-use of parts of vehicles which were already on the market at the date of expiry
- Spare parts put on the market after 1 July 2003 which are used for vehicles put on the

(*) This clause shall not apply to wheel balance weights, carbon brushes for electric