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## ANNEX

‘ANNEX Materials 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 components Scope and expiry date of the exemption To be labelled or made identifiable in accordance with Article 4(2)(b)(iv) 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 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 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 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 2(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 2008 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 Lead and lead compounds in components 5. Batteries X6. Vibration dampers Vehicles type approved before 1 January 2016 and spare parts for these vehicles X7(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 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 7(c) Bonding agents for elastomers in powertrain applications containing up to 0,5 % lead by weight

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As spare parts for vehicles put on the market before 1 July 2009 8(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 vehicles X8(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 vehicles X8(c)  
Lead in finishes on terminals of electrolyte aluminium capacitors

Vehicles type approved before 1 January 2013 and spare parts for these vehicles X8(d)  
Lead used in soldering on glass in mass airflow sensors

Vehicles type approved before 1 January 2015 and spare parts of such vehicles X8(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 vehicles X8(j)  
Lead in solders for soldering in laminated glazing

X9.  
Valve seats

As spare parts for engine types developed before 1 July 2003 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:

- 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 vehicles 10(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 vehicles 12.  
Lead-containing thermoelectric materials in automotive electrical applications to reduce CO<sub>2</sub> emissions by recuperation of exhaust heat

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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