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## ANNEX

‘ANNEX Materials and components exempt from Article 4(2)(a) 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 2015. This exemption shall be reviewed in 2014. This exemption shall be reviewed before 1 January 2012. 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. Materials and components Scope and expiry date of the exemption To be labelled or made identifiable in accordance with Article 4(2)(b)

II (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  
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

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- 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 2013 and 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
- Vehicles type approved before 1 January 2019 and spare parts for these vehicles XHexavalent chromium 13(a).  
Corrosion preventive coatings  
As spare parts for vehicles put on the market before 1 July 2007 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 14.

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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

*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)<sup>(1)</sup>.

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- (1) This clause shall not apply to wheel balance weights, carbon brushes for electric motors and brake linings.'