

ANNEX I

Minimum technical requirements for treatment in accordance with Article 6(1) and (3)

1. Sites for storage (including temporary storage) of end-of-life vehicles prior to their treatment:
 - impermeable surfaces for appropriate areas with the provision of spillage collection facilities, decanters and cleanser-degreasers,
 - equipment for the treatment of water, including rainwater, in compliance with health and environmental regulations.
2. Sites for treatment:
 - impermeable surfaces for appropriate areas with the provision of spillage collection facilities, decanters and cleanser-degreasers,
 - appropriate storage for dismantled spare parts, including impermeable storage for oil-contaminated spare parts,
 - appropriate containers for storage of batteries (with electrolyte neutralisation on site or elsewhere), filters and PCB/PCT-containing condensers,
 - appropriate storage tanks for the segregated storage of end-of-life vehicle fluids: fuel, motor oil, gearbox oil, transmission oil, hydraulic oil, cooling liquids, antifreeze, brake fluids, battery acids, air-conditioning system fluids and any other fluid contained in the end-of-life vehicle,
 - equipment for the treatment of water, including rainwater, in compliance with health and environmental regulations,
 - appropriate storage for used tyres, including the prevention of fire hazards and excessive stockpiling.
3. Treatment operations for depollution of end-of-life vehicles:
 - removal of batteries and liquified gas tanks,
 - removal or neutralisation of potential explosive components, (e.g. air bags),
 - removal and separate collection and storage of fuel, motor oil, transmission oil, gearbox oil, hydraulic oil, cooling liquids, antifreeze, brake fluids, air-conditioning system fluids and any other fluid contained in the end-of-life vehicle, unless they are necessary for the re-use of the parts concerned,
 - removal, as far as feasible, of all components identified as containing mercury.
4. Treatment operations in order to promote recycling:
 - removal or catalysts,
 - removal of metal components containing copper, aluminium and magnesium if these metals are not segregated in the shredding process,
 - removal of tyres and large plastic components (bumpers, dashboard, fluid containers, etc), if these materials are not segregated in the shredding process in such a way that they can be effectively recycled as materials,
 - removal of glass.
5. Storage operations are to be carried out avoiding damage to components containing fluids or to recoverable components and spare parts.

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[^{F1}ANNEX II

Textual Amendments

- F1** Substituted by [Council Decision of 20 September 2005 amending Annex II of Directive 2000/53/EC of the European Parliament and of the Council on end-of-life vehicles \(Text with EEA relevance\) \(2005/673/EC\)](#).

MATERIALS AND COMPONENTS EXEMPT FROM ARTICLE 4(2)(A)

[^{F1} 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. Steel for machining purposes and galvanised steel containing up to 0,35 % lead by weight		
2(a). Aluminium for machining purposes with a lead content up to 1,5 % by weight	1 July 2008	
2(b). Aluminium for machining purposes with a lead content up to 0,4 % by weight		
3. Copper alloy containing up to 4 % lead by weight		
4. Bearing shells and bushes	1 July 2008	
Lead and lead compounds in components		
5. Batteries		X
6. Vibration dampers		X
7(a). Vulcanising agents and stabilisers for elastomers in fluid handling	1 July 2006	

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	and powertrain applications containing up to 0,5 % lead by weight		
7(b).	Bonding agents for elastomers in powertrain applications containing up to 0,5 % lead by weight		
8.	Solder in electronic circuit boards and other electric applications		X ^a
9.	Copper in friction materials of brake linings containing more than 0,4 % lead by weight	1 July 2007	X
10.	Valve seats	Engine types developed before 1 July 2003: 1 July 2007	
11.	Electrical components which contain lead in a glass or ceramic matrix compound except glass in bulbs and glaze of spark plugs		X ^b (for components other than piezo in engines)
12.	Pyrotechnic initiators	Vehicles type-approved before 1 July 2006 and replacement initiators for these vehicles	
Hexavalent chromium			
13(a).	Corrosion preventive coatings	1 July 2007	
13(b).	Corrosion preventive coatings related to bolt and nut assemblies for chassis applications	1 July 2008	

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14.	Absorption refrigerators in motorcaravans		X
Mercury			
15.	Discharge lamps and instrument panel displays		X
Cadmium			
16.	Thick film pastes	1 July 2006	
17.	Batteries for electrical vehicles	After 31 December 2008, the placing on the market of NiCd batteries shall only be allowed as replacement parts for vehicles put on the market before this date	X
18.	Optical components in glass matrixes used for Driver Assistance Systems	1 July 2007	X]

a Dismantling if, in correlation with entry 11, 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.

b Dismantling if, in correlation with entry 8, 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.

c [^{F2}This clause does not apply to wheel balance weights, carbon brushes for electric motors and brake linings as these components are covered by specific entries.

Notes:

- A maximum concentration value up to 0,1 % by weight and per homogeneous material, for lead, hexavalent chromium and mercury and up to 0,01 % by weight per 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 is 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 are exempted from the provisions of Article 4(2)(a).]

Textual Amendments

- F2** Substituted by [Commission Decision of 10 June 2005 amending Annex II to Directive 2000/53/EC of the European Parliament and of the Council on end-of life vehicles \(notified under document number C\(2005\) 1707\) \(Text with EEA relevance\) \(2005/438/EC\).](#)