

**MATERIALS SUBJECT TO REGULATIONS  
USE RESTRICTIONS  
WITHIN THE PSA PEUGEOT CITROËN GROUP**

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**NO USE RESTRICTION***This is a translation, the French original shall be used in all cases of litigation**Date of translation : 04/01/2005*

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## RECORDS

Suffix	Date	Type of modifications
OR	19/11/2001	Creation of the norme
A	05/11/2002	Modification to the norme further to the amendment in Appendix II by decision of the commission 2002/525/EC.
B	22/07/2004	Modification to the Appendices

## PARTICIPANTS

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## 1. OBJECT AND FIELD OF APPLICATION

The object of this norme is to clarify the rules for the use of certain materials subject to regulations. It concerns cadmium, mercury, lead, hexavalent chromium, glycols and phthalates in current use at PSA PEUGEOT CITROËN. It supplements norme A12 5500 relating to the weight and material composition of parts.

These materials are prohibited, or limited in their use, for reasons of employee health and safety, or for regulatory reasons.

This document is in addition to all other national and/or European regulations on the use restriction of substances linked to health, safety and protection of the environment which must be observed by PSA PEUGEOT CITROËN and their Suppliers.

A certificate of conformity with Directive 2000/53/EC, according to Appendix 1 shall be requested for all materials, components and parts supplied to PSA PEUGEOT CITROËN.

The derogations used shall be declared as per Appendix 2.

## 2. REFERENCE DOCUMENTS

### 2.1. NORMES

A12 5500      END OF LIFE VEHICLES (ELV) MATERIAL WEIGHT AND SUBSTANCE OF PARTS  
COMPOSITION DATA

### 2.2. OTHER DOCUMENTS

EC 2000/53      DIRECTIVE RELATING TO END OF LIVE VEHICLES (ELV)

### 2.3. EXPRESSION ON DOCUMENTS

Not applicable.

## 3. TERMINOLOGY AND DEFINITION

A dictionary (glossary) of the main terms and their definitions used within the "Direction des Plates-formes, des Techniques et des Achats can be consulted internally via the DPTA glossary (Nectar : <http://nectar.inetpsa.com>). This glossary is progressively improved upon.

## 4. LIST OF MATERIALS

### 4.1. CADMIUM

Cadmium is strictly prohibited in all chemical forms except for the applications listed below according to the amendment in Annex II of Directive 2000/53/EC following the Commission decision 2002/525/EC.

- Batteries for electric vehicles by 31/12/2005.
- Thick film pastes by 1<sup>st</sup> July 2006.
- A maximum value of 0,01% by weight of cadmium is tolerated in a homogeneous material providing that this substance has not been introduced intentionally.

## 4.2. MERCURY

Mercury is prohibited in all chemical forms, except for :

- Discharge lamps,
- Display screens,  
according to the amendment in Annex II of Directive 2000/53/EC following the Commission decision 2002/525/EC.
- A maximum value of 0,1% by weight of mercury is tolerated in a homogeneous material providing that this substance has not been introduced intentionally.

## 4.3. LEAD

Lead is prohibited except for the applications listed below according to the amendment in Annex II of Directive 2000/53/EC following the Commission decision 2002/525/EC.

- As an alloying element in :
  - Steel for machining purposes and galvanised steel containing less than 0,35% lead by weight.
  - Aluminium for machining purposes containing less than 2% lead by weight by the 1<sup>st</sup> July 2005.
  - Aluminium for machining purposes containing less than 1% lead by weight by the 1<sup>st</sup> July 2008.
  - Copper alloy containing less than 4% lead by weight.
  - Lead/bronze bearings and pistons.
- Batteries.
- Vibration dampers - Wheel balance weights are excluded from this category.
- Vulcanising agents and stabilisers for elastomers used in fluid handling and transmission applications by the 1<sup>st</sup> July 2005.
- Stabiliser in protective paints - Cataphoretic and protective paint on mechanical parts are included in this category - Base paints and clear-coats are excluded from this category, by the 1<sup>st</sup> July 2005.
- Solder in electronic circuit boards and other electrical applications. The quantity of lead in soldering shall be specified in the format of Appendix 2.
- Electric components inserted into a glass or ceramic matrix containing lead except for glass in bulbs and glaze of spark plugs.
- Glass in bulbs and glaze of spark plugs by the 1<sup>st</sup> January 2005.
- Pyrotechnic initiators by the 1<sup>st</sup> July 2007.
- A maximum value of 0,4% lead by weight in aluminium is tolerated providing that the substance has not been introduced intentionally.
- A maximum value of 0,4% lead by weight in copper constituting friction materials for brake linings is tolerated until the 1<sup>st</sup> July 2007 providing that the substance has not been introduced intentionally.
- A maximum value of 0,1% lead by weight is tolerated in a homogeneous material providing that this substance has not been introduced intentionally.

#### 4.4. HEXAVALENT CHROMIUM

Hexavalent chromium is prohibited from the 1<sup>st</sup> July 2007 for anti-corrosion applications.

It is strictly prohibited for base paints and clear-coats.

For anti-corrosion applications, if hexavalent chromium is present, this must be reported and the solution (s) for possible replacement must be presented to PSA PEUGEOT CITROËN.

- A maximum value of 0,1% hexavalent chromium by weight is tolerated in a homogeneous material providing that this substance has not been introduced intentionally.

#### 4.5. GLYCOLS

The following glycols are prohibited, in all materials and for all uses, in the paint shops of the group :

- Ethylene glycol methyl ether (EGME)
- Ethylene glycol methyl ether acetate (EGMEA)
- Ethylene glycol ethyl ether (EGEE)
- Ethylene glycol ethyl ether acetate (EGEEA)

The following glycols are limited to 0,5%, in all materials and for all uses, in the paint shops of the group :

- 1-propylene glycol 2-methyl ether (1PG2ME, or 2 methoxy 1 propanol)
- Acetate of 1-propylene glycol 2-methyl ether
- Ethylene glycol di-methyl ether
- Di-ethylene glycol methyl ether (DEGME)
- Di-ethylene glycol di-methyl ether
- Tri-ethylene glycol di-methyl ether

#### 4.6. PHTHALATES

The following phthalate is prohibited at a rate above 0,5% in the paint shops of the group :

- Bi (2-ethylhexyl) phthalate (commonly known as DOP).

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**Appendix 1**  
**Certificate of conformity relating to the use of lead,  
mercury, cadmium and hexavalent chromium**

<b>Company name</b>	<b>PSA Reference of the product or part :</b>
<b>Address :</b>	<b>Designation of the product (part or material) :</b>
<b>PSA supplier's code :</b>	
<b>Signatory Name and function :</b>	

Article 4.2.a of the Directive 2000/53/EC of 18th September 2000 relating to end of life vehicles stipulates that "materials and components of vehicles marketed after the 1st July 2003 do not contain lead, mercury, cadmium or hexavalent chromium in any other cases than those listed in annex II in the conditions stipulated therein".

The signatory Supplier declares hereby to take all necessary steps to ensure that the product referenced above intended for the PSA PEUGEOT CITROËN Group conforms to article 4.2.a of the aforementioned Directive.

The Supplier guarantees consequently that the product referenced above, supplied to the PSA PEUGEOT CITROËN Group does not contain lead, cadmium, mercury, hexavalent chromium in any other cases than those listed in annex II of the aforementioned directive in the conditions stipulated therein.

Done at ..... On.....

[Function] + Supplier's seal

## Appendix 2

ADMINISTRATION OF DEROGATIONS TO DIRECTIVE  
EC/2000/53

Company name	PSA Reference of the product or part :
Address :	Designation of the product (part or material) :
PSA supplier's code :	
Signatory Name and function :	

For use restrictions on lead, mercury, cadmium and hexavalent chromium, the supplier shall **indicate** for each item supplied, **if applicable, the derogation (s) covering the item and indicate the quantity of substance as shown below for specific cases (derogations 10 and 12).**

For information, certain derogations have a time limit (specified dates). The supplier shall take the necessary steps to ensure that the end of a derogation meets the time limit and be bound again with regard to the conformity of his products with the Directive.

Does the relevant part or product contain lead, mercury, cadmium or hexavalent chromium as a derogation ?

Answer YES or NO in the box opposite

<b>Lead as an alloying element</b>
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<b>1</b>	Steel for machining purposes and galvanised steel containing up to 0,35% lead by weight	
	If this derogation is used, tick the box opposite	<input type="text"/>
<b>2</b>	Aluminium for machining purposes containing between 1% and 2% lead by weight	01/07/2005
	If this derogation is used, tick the box opposite	<input type="text"/>
<b>3</b>	Aluminium for machining purposes containing up to 1% lead by weight	01/07/2008
	If this derogation is used, tick the box opposite	<input type="text"/>
<b>4</b>	Copper alloy containing up to 4% lead by weight	
	If this derogation is used, tick the box opposite	<input type="text"/>
<b>5</b>	Lead/bronze bearings and pistons	
	If this derogation is used, tick the box opposite	<input type="text"/>

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### Lead and lead compound in components

<b>6</b>	<b>Batteries</b>	
	If this derogation is used, tick the box opposite	
<b>7</b>	<b>Vibration dampers</b>	
	If this derogation is used, tick the box opposite	
<b>8</b>	<b>Vulcanising agents and stabilisers for elastomers used in fluid handling and transmission application</b>	01/07/2005
	If this derogation is used, tick the box opposite	
<b>9</b>	<b>Stabiliser for protective paints</b>	01/07/2005
	If this derogation is used, tick the box opposite	
<b>10</b>	<b>Soldering in electronic circuit boards and other electrical applications</b>	
	State the total lead weight in grams contained in welds	<b>g</b>
<b>11</b>	<b>Copper in brake linings up to 0,4% lead in weight if lead has not been added intentionally <sup>(1)</sup></b>	
	If this derogation is used, tick the box opposite	
<b>12</b>	<b>Electrical components containing lead in the composition of a glass or ceramic matrix except for glass in bulbs and glaze of spark plugs</b>	
	State the total lead weight in grams contained in these components	<b>g</b>
<b>13</b>	<b>Glass in bulbs and spark plugs</b>	01/01/2005
	If this derogation is used, tick the box opposite	
<b>14</b>	<b>Pyrotechnic initiators</b>	01/07/2007
	If this derogation is used, tick the box opposite	

### Hexavalent chromium

<b>15</b>	<b>Anti-corrosion coating</b>	01/07/2007
	If this derogation is used, tick the box opposite	

### Mercury

<b>16</b>	<b>Discharge lamps and display screens</b>	
	If this derogation is used, tick the box opposite	



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<b>Cadmium</b>
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17	Thick film pastes	01/07/2006
	If this derogation is used, tick the box opposite	

18	Batteries for electric vehicles	31/12/2005
	If this derogation is used, tick the box opposite	

**Impurities :**

- A maximum concentration of 0,1% lead, mercury, hexavalent chromium and 0,01% cadmium is accepted (% by weight in a homogenous material) if they have not been introduced intentionally (1).
- A maximum concentration of 0,4% by weight of lead in aluminium is accepted if it has not been introduced intentionally.
- A maximum concentration of 0,4% by weight of lead in copper intended for friction materials in brake linings is accepted until 01/07/2007 if it has not introduced intentionally (1).

**Note :** (1) *Intentionally added means “deliberately used in the formulation of a material or component for which its presence in the final product is desired to provide a specific characteristics, appearance or quality”. The use of recycled material as feedstock for the manufacture of new products is not considered as intentionally introduced.*