DIRECTIVE 2005/69/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
of 16 November 2005


THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article 95 thereof,

Having regard to the proposal from the Commission,

Having regard to the opinion of the European Economic and Social Committee (1),

Acting in accordance with the procedure laid down in Article 251 of the Treaty (2),

Whereas:

(1) Tyres are produced by using extender oils that may contain various levels of polycyclic aromatic hydrocarbons (PAHs) that are not added intentionally. During the production process PAHs can be incorporated into the rubber matrix. Therefore, they can be present in various amounts in the final product.

(2) Benzo(a)pyrene (BaP) can be a qualitative and quantitative marker for the presence of PAHs. BaP and other PAHs have been classified as carcinogenic, mutagenic and toxic to reproduction. In addition, due to the presence of these PAHs, several extender oils as such have been classified as carcinogenic, mutagenic and toxic to reproduction.

(3) The Scientific Committee on Toxicity, Ecotoxicity and the Environment (CSTEE) has confirmed the scientific findings which identify the adverse health effects of PAHs.

(4) The emission of BaP and other PAHs into the environment should be reduced as much as possible. In order to provide a high level of protection to human health and the environment and to contribute to the reduction of total annual emissions of PAHs as required in the 1998 Protocol to the 1979 Convention on Long Range Transboundary Air Pollution on Persistent Organic Pollutants, it therefore appears necessary to restrict the placing on the market and the use of PAH-rich extender oils and blends used as extender oils for the production of tyres.


(6) Without prejudice to the requirements of other European provisions, this Directive covers passenger car tyres (1), light and heavy truck tyres (2), agricultural tyres (3) and motorcycle tyres (4).

(7) In order to meet the necessary safety requirements and in particular to ensure that tyres have a high degree of wet grip performance, a transitory period is necessary during which tyre producers will develop and test new types of tyres produced without high aromatic extender oils. According to the information at present available, the development and testing work will take a considerable amount of time, as producers will have to perform numerous series of test runs before the necessary high level of wet grip performance of the new tyres can be guaranteed. Therefore, this Directive should be applied to economic operators from 1 January 2010.

(8) The adoption of harmonised test methods is necessary for the application of this Directive as regards the content of PAHs in extender oils and tyres. The adoption of such test methods should not delay the entry into force of this Directive. The test method should preferably be developed at European or international level, where appropriate by the European Committee for Standardisation (CEN) or by the International Organisation for Standardization (ISO). The Commission may publish references to the relevant CEN or ISO standards or establish such methods in accordance with Article 2a of Directive 76/769/EEC, where necessary.


(10) It is not the purpose of this Directive to restrict the placing on the market, as defined in Article 2(1)(e) of Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (8), of tyres produced before 1 January 2010 and which can thus be sold off from stocks subsequent to this date. The date of production of tyres can be easily recognised by the existing mandatory marking of the ‘date of manufacture’ on the tyre as stipulated in Directive 92/23/EEC. All tyres retreaded after 1 January 2010 should be retreaded with new tread containing new PAH-low extender oils.

HAVE ADOPTED THIS DIRECTIVE:

Article 1

Annex I to Directive 76/769/EEC is hereby amended as set out in the Annex to this Directive.

Article 2

Member States shall adopt and publish the laws, regulations and administrative provisions necessary to comply with this Directive by 29 December 2006. They shall forthwith inform the Commission thereof.

They shall apply those measures from 1 January 2010.

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(2) Directive 92/23/EEC.

(3) UN/ECE Regulation 106.


When Member States adopt these measures, they shall contain a reference to this Directive or shall be accompanied by such a reference on the occasion of their official publication. The methods of making such reference shall be laid down by Member States.

**Article 3**

This Directive shall enter into force on the 20th day following its publication in the *Official Journal of the European Union*.

**Article 4**

This Directive is addressed to the Member States.

Done at Strasbourg, 16 November 2005.

*For the European Parliament*  
The President  
J. BORRELL FONTELLES

*For the Council*  
The President  
Bach of LUTTERWORTH
The following point is added to Annex I to Directive 76/769/EEC:

<table>
<thead>
<tr>
<th>No.</th>
<th>Polycyclic-aromatic hydrocarbons (PAH)</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Benzo(a)pyrene (BaP)</td>
<td>50-32-8</td>
</tr>
<tr>
<td>2</td>
<td>Benzo(e)pyrene (BeP)</td>
<td>192-97-2</td>
</tr>
<tr>
<td>3</td>
<td>Benzo(a)anthracene (BaA)</td>
<td>56-55-3</td>
</tr>
<tr>
<td>4</td>
<td>Chrysen (CHR)</td>
<td>218-01-9</td>
</tr>
<tr>
<td>5</td>
<td>Benzo(b)fluoranthene (BbFA)</td>
<td>205-99-2</td>
</tr>
<tr>
<td>6</td>
<td>Benzo(j)fluoranthene (BjFA)</td>
<td>205-82-3</td>
</tr>
<tr>
<td>7</td>
<td>Benzo(k)fluoranthene (BkFA)</td>
<td>207-08-9</td>
</tr>
<tr>
<td>8</td>
<td>Dibenzo(a, h)anthracene (DBAhA)</td>
<td>53-70-3</td>
</tr>
</tbody>
</table>

1. Extender oils may not be placed on the market and used for the production of tyres or parts of tyres, if they contain:
   - more than 1 mg/kg BaP, or
   - more than 10 mg/kg of the sum of all listed PAHs. These limits are regarded as kept, if the polycyclic aromatics (PCA) extract is less than 3 % by mass, as measured by the Institute of Petroleum standard IP346: 1998 (Determination of PCA in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method), provided that compliance with the limit values of BaP and of the listed PAHs, as well as the correlation of the measured values with the PCA extract, is controlled by the manufacturer or importer every six months or after each major operational change, whichever is earlier.

2. Furthermore, the tyres and treads for retreading manufactured after 1 January 2010 may not be placed on the market if they contain extender oils exceeding the limits indicated in paragraph 1. These limits are regarded as kept, if the vulcanised rubber compounds do not exceed the limit of 0,35 % Bay protons as measured and calculated by ISO 21461 (Rubber vulcanised — Determination of aromaticity of oil in vulcanised rubber compounds).

3. By way of derogation, paragraph 2 shall not apply to retreaded tyres if their tread does not contain extender oils exceeding the limits indicated in paragraph 1.'