Directive 2004/42EC on the limitation of VOC’s in paints

Screening meeting with Turkey and Croatia
Brussels, 06 April 2006

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Unit Clean Air and Transport
Outline

1. Why is it important to reduce VOC’s in paints?
2. What are the objectives of the Directive?
3. What is the contents of the Directive? Scope, main obligations, deadlines
1. Why is it important to reduce VOC’s in paints?

1. Paints is an important contributor to total VOC’s emissions: about 15 - 20 %
2. VOC’s are contributing to Ozone formation, Ozone is adverse for public health and vegetation
3. Some VOC’s are toxic for human health (BTX)
4. Help to meet the objectives of the NEC and AQ Directives
VOC emissions

"With climate measures" scenario [kt]
### VOC’s sources- Turkey

**Source:** IIASA

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<tbody>
<tr>
<td>Chemical industry</td>
<td>2.459</td>
<td>2.446</td>
<td>2.341</td>
<td>2.270</td>
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<td>Combustion</td>
<td>217.262</td>
<td>185.368</td>
<td>162.527</td>
<td>152.856</td>
<td>153.480</td>
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<td>Fuel production-distribution</td>
<td>45.256</td>
<td>50.809</td>
<td>57.000</td>
<td>66.434</td>
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<td>Miscellaneous</td>
<td>31.478</td>
<td>32.857</td>
<td>34.040</td>
<td>35.223</td>
<td>36.378</td>
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<td>Other solvent use</td>
<td>66.511</td>
<td>63.902</td>
<td>67.578</td>
<td>74.179</td>
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<td>Paint application</td>
<td>102.322</td>
<td>87.679</td>
<td>75.979</td>
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<td>Printing</td>
<td>6.198</td>
<td>5.665</td>
<td>4.994</td>
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<td>Road transport</td>
<td>289.400</td>
<td>339.242</td>
<td>241.963</td>
<td>177.029</td>
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<td>Sum</td>
<td>782.715</td>
<td>787.786</td>
<td>666.561</td>
<td>609.311</td>
<td>512.116</td>
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</table>
Six months AOT40 (forests) [ppm.hours]
Emissions for the “no further climate measures” scenario
Average meteorology for 1999 and 2003
Premature deaths attributable to $O_3$

Year 2000, mean meteorology, threshold=30 ppb, percent of total deaths
2. Objectives of the Directive

The main purpose is to reduce VOC’s emissions from the use of paints through a limitation of total VOC’s contents of certain paints, varnishes and vehicle refinishing products.

Legal basis: Article 95 of the Treaty – Internal Market
1. Scope: in annex 1, definition of the various categories of paints covered by the Directive: 2 main sub categories (1) domestic paints products (2) vehicle refinishing products

2. Main obligations and deadlines: for each sub category, a maximum of VOC content is indicated in annex 2. 2 phases are foreseen: 1st January 2007, and 2010

3. As from 1 January 2008 (2011 for phase 2), interdiction to sell products which are not in conformity with the Directive
4. Obligation of labelling products with a clear indication of VOC contents

5. Derogations foreseen for installations covered by Directive 1999/13/EC and for restoration of buildings of historical and cultural value
1. Monitoring programme to be established by the Member states – Controls to be foreseen at production and importance level and « on the market »: paints formula’s, sampling, labelling – Competent authority to be designated by MS

2. Reporting on monitoring program every 5 years (first report due by June 2008) – Commission is preparing a questionnaire
Thank you for your attention !!!