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Subject

VOC-content according ISO 11890-2

Date

July 18, 2006

Our reference

TC-BRF-06-20596/id1

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Project number

033.11831/01.64

INTRODUCTION

By order of MagPaint Europe bv, TNO Science and Industry did a determination of volatile organic compound (VOC) content according to ISO 11890-2.

The order was given on June 2, 2006.

TNO received the following sample to investigate:

<u>TNO sample code</u>	<u>Description</u>
06.0254	1 litre MagnetPaint, batch nr. 16-12-04

The investigation is carried out in week 23 and 24.

INVESTIGATION

The volatile organic compound content is determined according ISO 11890-2 of a sample MagnetPaint (06.0254). The water content is determined with Karl-Fischer titration. The content of volatile organic compounds is determined with gas chromatography mass spectrometry (GC-MS) and an extra test is done with headspace-gas chromatography-mass spectrometry.

RESULTS

With GC-MS and headspace-GC-MS no volatile organic compounds are determined in the sample MagnetPaint.

The water content in the sample MagnetPaint, determined with Karl-Fischer titration, is 22,9 %.

The Standard Conditions for Research Instructions given to TNO, as filed at the Registry of the District Court and the Chamber of Commerce in The Hague shall apply to all instructions given to TNO; the Standard Conditions will be sent on request.



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CONCLUSION

The sample MagnetPaint, 06.0254, do meet the requirement as stated in "Publicatieblad van de Europese Unie, RICHTLIJN 2004/42/EG VAN HET EUROPEES PARLEMENT EN DE RAAD van 21 april 2004 inzake de beperking van emissies van vluchtige organische stoffen ten gevolge van het gebruik van organische oplosmiddelen in bepaalde verven en vernissen en producten voor het overspuiten van voertuigen, en tot wijziging van Richtlijn 199/13/EG".

REMARK

With this letter, we have finalized this part of our investigations. Without further notice the remaining sample will be destroyed after a storage time of two weeks.

Eindhoven, July 2006

A handwritten signature in blue ink, appearing to read 'W. Huijben', written over a faint circular stamp.

W.C.A. Huijben, M.Sc.
Author

TNO Science and Industry
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A handwritten signature in blue ink, appearing to read 'K.K. Pahnke', written over a faint circular stamp.

K.K. Pahnke, M.Sc.
Head of Department