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Subject
MagnetPaint EN 71-3

Date
April 25, 2006
Our reference
TC-BRF-06-18259/mso
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033.11831/01.41

INTRODUCTION

By order of MagPaint Europe bv, TNO Science and Industry did an investigation into the release of heavy metals of a sample MagnetPaint according to EN 71-3. The order was given on April 13, 2006.

TNO received the following sample to investigate:

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

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.

The investigation is carried out in week 16 and 17.

INVESTIGATION

The release of heavy metals is determined according EN 71-3 of a sample MagnetPaint (06.0254). A known amount of a dried sample was exposed during 2 hours to 0,07 M hydrochloric acid. In this solution the amount of antimony (Sb), arsenic (As), barium (Ba), cadmium (Cd), chromium (Cr), lead (Pb), mercury (Hg) and selen (Se) was determined with atom air absorption spectroscopy.



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RESULTS

In table 1 the amount released heavy metals of the dried sample 06.0254 are given.

Table 1

Metal	Release of heavy metal in mg/kg	Maximum requirement in for example finger-paint
Sb	< 2,0	60
As	< 2,0	25
Ba	22	250
Cd	< 0,2	50
Cr	< 1,0	25
Pb	2,1	90
Hg	< 0,05	25
Se	< 2,0	500

CONCLUSION

The sample MagnetPaint, 06.0254, do meet the requirement as stated in EN 71-3.

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, April 2006

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