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Test Report

No. 10088063/06 (8)

Date : 12 October 2006

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Marabuwerke GmbH & Co. KG
Asperger Str. 4
D-71732 Lamm,
Germany

The following sample was (were) submitted and identified by the client as:

Ink Name	Merapel PY
Color Shades	PY020, PY021, PY022, PY026, PY031, PY032, PY033, PY035, PY036, PY037, PY045, PY055, PY068, PY057, PY058, PY059, PY064, PY067, PY068, PY070, PY073, PY170, PY910, PY4525200, PY4525300, PY4525400, PY4525500, PY4525600
SGS Job No.	10068063/06 (8)
Supplier / Manufacturer	Marabuwerke GmbH & Co. KG
Country of Origin	Germany
Sample Received	2 October 2006
Testing Date	2 October to 12 October 2006

Test Requested	<ol style="list-style-type: none"> 1) To determine the Lead Content on the submitted sample 2) To determine the Mercury Content on the submitted sample 3) To determine the Hexavalent Chromium Content on the submitted sample 4) To determine the Cadmium Content on the submitted sample 5) To determine PBB (Poly Brominated Biphenyls) and PBDE (Poly Brominated Diphenyl Ethers) Contents on the submitted sample.
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Test Method	<ol style="list-style-type: none"> 1) With reference to SGS in-house Method RSTS E&E 003 (Standard : EPA 3051A.), the analysis was performed by Inductively Coupled Plasma-Atomic Emission Spectrometry. 2) With reference to SGS in-house Method RSTS E&E 003 (Standard : EPA 3051A.), the analysis was performed by Inductively Coupled Plasma-Atomic Emission Spectrometry. 3) With reference to SGS in-house Method RSTS E&E 004 (Standard : EPA 3080A/7196A), the analysis was performed colorimetrically by UV-Visible Spectrophotometer. 4) With reference to SGS in-house Method RSTS E&E 003 (Standard : EPA 3051A), the analysis was performed by Inductively Coupled Plasma-Atomic Emission Spectrometry. 5) With reference to SGS in-house Method RSTS E&E 005 (Standard : EPA 3550C), the analysis was performed by Gas Chromatography-Mass Spectrometer.
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Test Result : Please see the next page/s

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd

Y.C. Tham
Laboratory Manager

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Test Report

No. 10068063/08 (8)

Date : 12 October 2008

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Test Results

Test Item (s)	Result	Detection Limit	Limit of RoHS
Chromium VI (Cr ⁶⁺)	ND	2 mg/kg	1000
Cadmium (Cd)	ND	2 mg/kg	100
Mercury (Hg)	ND	2 mg/kg	1000
Lead (Pb)	ND	2 mg/kg	1000

Test Item (s)	Result	Detection Limit	Limit of RoHS
Monobromobiphenyl	ND	5 mg/kg	
Dibromobiphenyl	ND	5 mg/kg	
Tribromobiphenyl	ND	6 mg/kg	--
Tetrabromobiphenyl	ND	8 mg/kg	--
Pentabromobiphenyl	ND	5 mg/kg	--
Hexabromobiphenyl	ND	5 mg/kg	--
Heptabromobiphenyl	ND	5 mg/kg	--
Octabromobiphenyl	ND	5 mg/kg	--
Nonabromobiphenyl	ND	6 mg/kg	--
Decabromobiphenyl	ND	5 mg/kg	--
Polybrominated Biphenyls (Mono - Deca)	ND	50 mg/kg	1000 mg/kg

Test Item (s)	Result	Detection Limit	Limit of RoHS
Monobromodiphenyl ether	ND	5 mg/kg	--
Dibromodiphenyl ether	ND	5 mg/kg	--
Tribromodiphenyl ether	ND	5 mg/kg	--
Tetrabromodiphenyl ether	ND	6 mg/kg	--
Pentabromodiphenyl ether	ND	5 mg/kg	--
Hexabromodiphenyl ether	ND	5 mg/kg	--
Heptabromodiphenyl ether	ND	5 mg/kg	--
Octabromodiphenyl ether	ND	5 mg/kg	--
Nonabromodiphenyl ether	ND	5 mg/kg	--
Decabromodiphenyl ether	ND	5 mg/kg	--
Polybrominated Diphenyl Ethers (Mono-Nona)*	ND	45 mg/kg	1000 mg/kg

- Note :
- (1) Results shown are based on total weight of samples
 - (2) ppm = mg/kg
 - (3) N.D = Not detected (<MDL); N.A. = Not Applicable
 - (4) Analysis was conducted on a composite (non-homogeneous) basis
 - (5) *Decabrominated Diphenyl Ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC under document 2005/717/EC
 - (6) PBBEs = PBDEs = Poly Brominated Diphenyl Ethers = PBDOs = PBBOs

*** End of report ***

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