



CERTIFICATE OF ANALYSIS

To : **NIPPON PIGMENT (M) SDN.BHD.**
2479, Mk-1, Lorong Perusahaan 8B,
Prai Industrial Estate,
13600 Prai, Pulau Pinang.
Attn.: Ms. Heidi

Page No. : 1 of 4

Certificate No.: SP /06-06/ 0591

Date of Issue : 28 / 06 / 2006

Client's Sample Description : **ORGANIC PIGMENT**

Date Of Sample Received : 21 / 06 / 2006
Date Completed Analysis : 28 / 06 / 2006

Analysis parameter and Standard Method / Equipment / Technique description

<u>Parameter</u>	<u>Standard Method / Equipment / Technique Description</u>
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1. Cadmium BS EN 1122 Method B: 2001

Plastic-Determination of Cadmium by wet decomposition method

ICP-AES (Inductive Coupled Plasma-Atomic Emission Spectrometry)

USEPA Method 3052

Microwave assisted acid digestion of siliceous and organically based matrices

USEPA Method 6010B-Inductive Coupled Plasma-Atomic Emission Spectrometry

USEPA Method 3052

Microwave assisted acid digestion of siliceous and organically based matrices

Cold Vapor technique-Flow Injection Mercury System (FIMS)

2. Lead

USEPA Method 3060A-Alkaline digestion for Hexavalent Chromium

USEPA Method 7196A – Colorimetric by UV/Vis Spectroscopy

USEPA Method 3540C- Soxhlet Extraction

GC/MS-Gas Chromatography-Mass Spectrometry

USEPA Method 3540C- Soxhlet Extraction

GC/MS-Gas chromatography-Mass Spectrometry

3. Mercury

4. Chromium Hexavalent

5. PBBs

6. PBDEs

Measurement flowchart

Refer to Appendix 1

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Type of Analysis/Parameters/ Properties measured	Analysis Results	Preconditioning Method / Technique	Measurement Method / Equipment
Cadmium (as Cd) ; mg/kg	ND(<0.5)	BS EN 1122 B: 2001	ICP-AES
Lead (as Pb) ; mg/kg	ND(<1)	USEPA Method 3052	USEPA Method 6010B
Mercury (as Hg) ; mg/kg	ND(<1)	USEPA Method 3052	Cold vapor -FIMS
Chromium Hexavalent (as Cr ⁶⁺) ; mg/kg	ND(<1)	USEPA Method 3060A	USEPA Method 7196A

Remark : The test portion was "Totally Dissolved" for Cadmium, Lead & Mercury test by using pre-conditioning method as mentioned above.

JOB NO.: SP606/0562**Test perform by : Ms. Tan Hooi Cheng**

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Page No. : 3 of 4

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Parameter Tested (as stated below) :
Polybrominated Biphenyls (PBBs)

Chemical compound	Analysis Results	Preconditioning Method	Measurement Method
Monobromobiphenyl	Not Detected		
Dibromobiphenyl	Not Detected		
Tribromobiphenyl	Not Detected		
Tetrabromobiphenyl	Not Detected		
Pentabromobiphenyl	Not Detected		
Hexabromobiphenyl	Not Detected		
Heptabromobiphenyl	Not Detected		
Octabromobiphenyl	Not Detected		
Nonabromobiphenyl	Not Detected		
Decabromobiphenyl	Not Detected		
		USEPA Method 3540C	GC/MS

Method Detection limit is 5 ppm.

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Parameter Tested :
Polybrominated Diphenyl Ethers (PBDEs)

Chemical compound	Results	Preconditioning Method	Measurement Method
Monobromodiphenyl ether	Not Detected		
Dibromodiphenyl ether	Not Detected		
Tribromodiphenyl ether	Not Detected		
Tetrabromodiphenyl ether	Not Detected		
Pentabromodiphenyl ether	Not Detected	USEPA Method	
Hexabromodiphenyl ether	Not Detected	3540C	GC/MS
Heptabromodiphenyl ether	Not Detected		
Octabromodiphenyl ether	Not Detected		
Nonabromodiphenyl ether	Not Detected		
Decabromodiphenyl ether	Not Detected		

Method Detection Limit is 5 ppm.**For NM LABORATORY SDN. BHD.****JOB NO.: SP606/0562****Certified By:****Yeap Cheo Mooi, B. Sc (Hons), AMIC
Chemist****Test perform by : Mr. Chong Kian Wei**