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## TEST REPORT

Number: BKKH10052784

Applicant: PT.KAILO SUMBER KAHSIH  
KOMP.INDUSTRIAL JABABEKA BLOK K1J  
HARJA MEKAR, CIKARANG  
ATTN: ITA DADAN

Date: Nov 08, 2010

### Sample description:

One (1) bottle of submitted sample said to be Ink green

Item nam: Ink green  
Date sample received: November 04, 2010  
Testing period: November 04, 2010 to November 08, 2010



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### Test conducted :

As requested by the applicant, for details please refer to attached page(s)  
Type of test: RoHS wet chemical analysis

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### Summary :

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	With reference to test method of IEC 62321 – Edition 1.0 : 2008 and limits quoted from RoHS Directives 2002/95/EC and Amendment 2005/618/EC	Pass

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Authorized by :  
For Intertek Testing Services (Thailand)

Phanit Hitapong  
Division Manager  
Toys & Hardlines Division



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Test conducted :

(A) Test result summary:

Testing item	Result (mg/kg)
	Submitted samples
Cadmium (Cd) Content	ND
Lead (Pb) Content	ND
Mercury (Hg) Content	ND
Chromium VI (Cr <sup>6+</sup> ) Content	ND
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl (MonoBB)	ND
Dibromobiphenyl (DiBB)	ND
Tribromobiphenyl (TriBB)	ND
Tetrabromobiphenyl (TetraBB)	ND
Pentabromobiphenyl (PentaBB)	ND
Hexabromobiphenyl (HexaBB)	ND
Heptabromobiphenyl (HeptaBB)	ND
Octabromobiphenyl (OctaBB)	ND
Nonabromobiphenyl (NonaBB)	ND
Decabromobiphenyl (DecaBB)	ND
Polybrominated Diphenyl Ethers (PBDEs)	
Monobromodiphenyl Ether (MonoBDE)	ND
Dibromodiphenyl Ether (DiBDE)	ND
Tribromodiphenyl Ether (TriBDE)	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND
Pentabromodiphenyl Ether (PentaBDE)	ND
Hexabromodiphenyl Ether (HexaBDE)	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND
Octabromodiphenyl Ether (OctaBDE)	ND
Nonabromodiphenyl Ether (NonaBDE)	ND
Decabromodiphenyl Ether (DecaBDE)	ND

Name of operation: Kritsana T.

mg/kg = Milligram per kilogram based on weight of sample = ppm  
ND= Not detected

Tested component: Green ink

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Test conducted :

(B) RoHS Requirement:

<b>Restricted substances</b>	<b>Limits</b>
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr <sup>6+</sup> )	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)

The above limits were quoted from 2002/95/EC and Amendment 2005/618/EC for homogeneous material.

(C) Test method:

<b>Testing item</b>	<b>Testing method</b>	<b>Limit of quantification</b>
Cadmium (Cd) Content	With reference to IEC 62321 Edition 1.0 : 2008, by acid digestion and determined by ICP-OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321 Edition 1.0 : 2008, by acid digestion and determined by ICP-OES	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321 Edition 1.0 : 2008, by acid digestion and determined by ICP-OES	2 mg/kg
Chromium VI (Cr <sup>6+</sup> ) Content	With reference to IEC 62321 Edition 1.0 : 2008, by alkaline digestion and determined by UV-VIS spectrophotometer	1 mg/kg
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321 – Edition 1.0: 2008, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg

Remark: Reporting limit = Quantitation limit of analyte in sample

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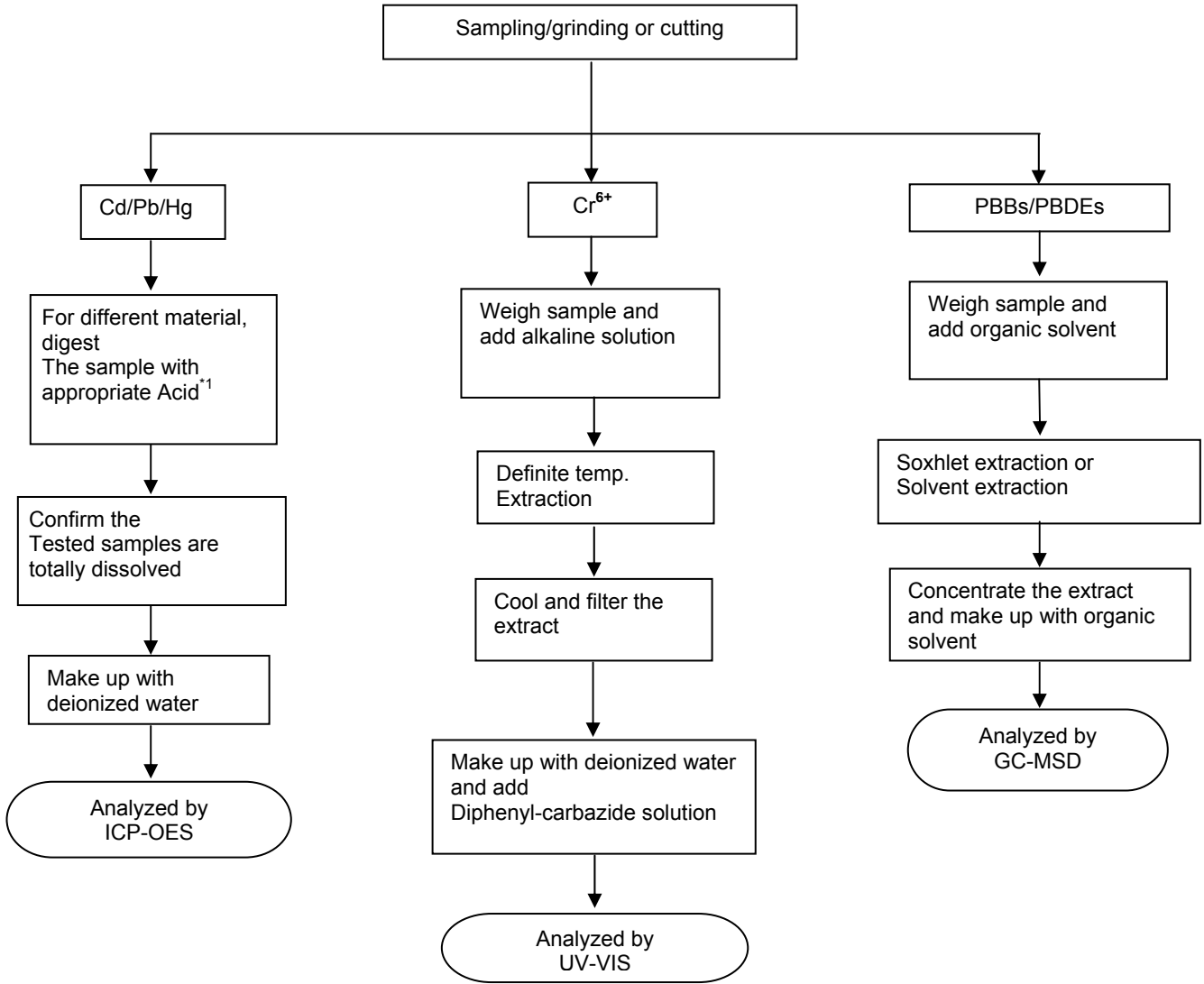
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(D) Measurement Flowchart

Test for Cd/Pb/Hg/Chromium (VI)/PBBs/PBDEs Contents

Reference Standard: IEC 62321–Edition 1.0: 2008



Remarks:

\*1: list of appropriate Acid:

Material	Acid added for digestion
Polymers	HNO <sub>3</sub> , HCl, H <sub>2</sub> O <sub>2</sub>

\*\*\*\*\* E N D \*\*\*\*\*/NU/DE/SAN