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TEST REPORT

Number: BKKH10052774

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

Date: Nov 08, 2010

Sample description:

One (1) bag of submitted sample said to be HD

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



Test conducted :

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

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

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 ⁶⁺) 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: White plastic (HD)



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Test conducted :

(B) RoHS Requirement:

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	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:

Testing item	Testing method	Limit of quantification
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 ⁶⁺) 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

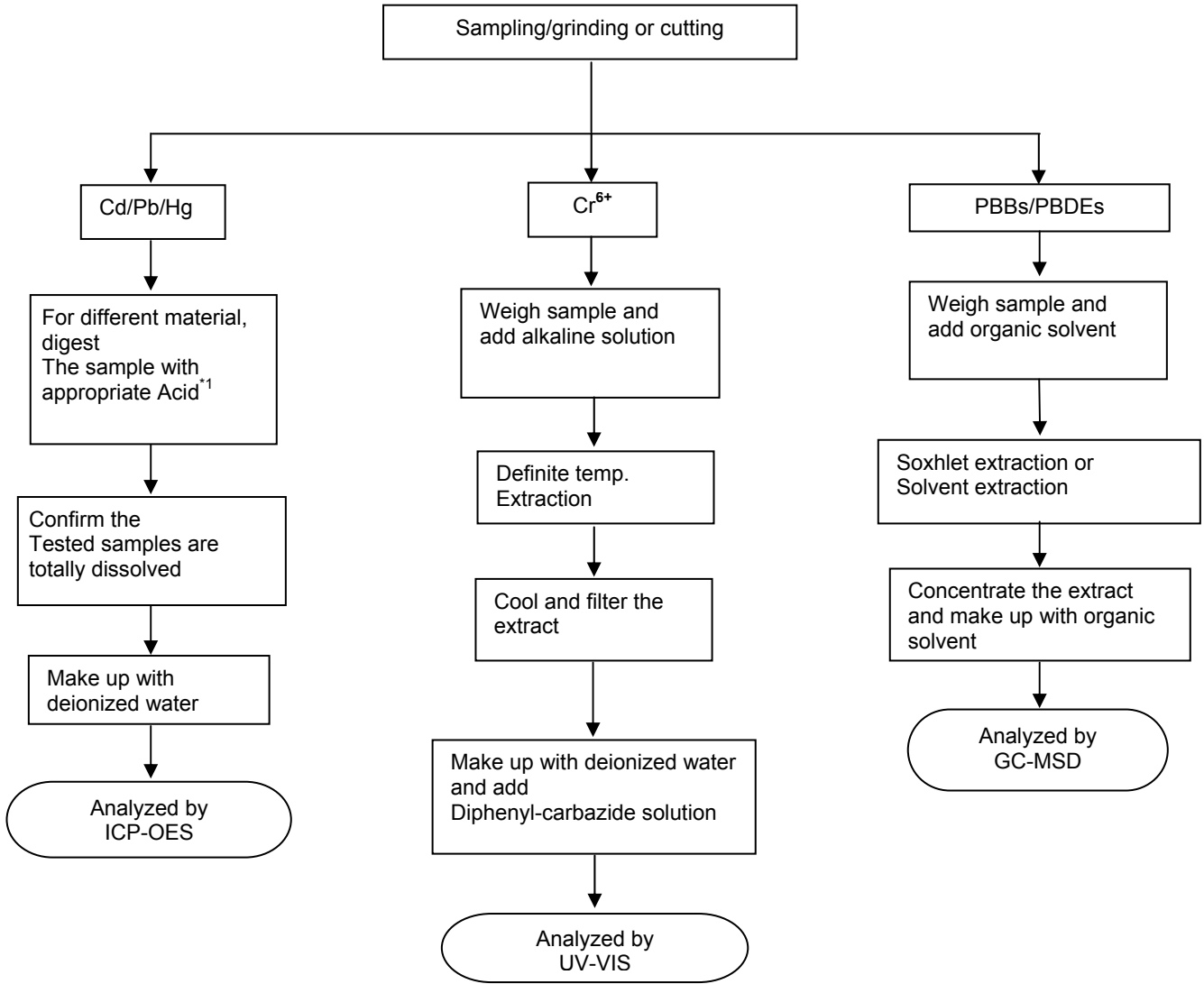
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(D) Measurement Flowchart

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 ₃ , HCl, H ₂ O ₂

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