

**CONG TY TNHH HCSP**

81A, DUONG SO 8, KHU PHO 3, PHUONG LINH TRUNG, QUAN THU DUC, THANH PHO HO CHI MINH, VIET NAM

The following sample was submitted and identified on behalf of the client as below:

SGS Job No. : VNHL2007012326EE  
 Sample Description : "MONTMORILLONITE DESICCANT (CHAT HUT AM MONTMORILLONITE)"  
 Characteristic : MONTMORILLONITE DESICCANT  
 Manufacturer : HCSP CO.,LTD  
 Sample Receiving Date : JULY 01, 2020  
 Final confirmed Date : JULY 01, 2020  
 Testing Period : JULY 01, 2020 TO JULY 07, 2020  
 Test Requested : PLEASE REFER TO THE RESULT SUMMARY.  
 Test Results : PLEASE REFER TO NEXT PAGE(S).  
 Result Summary :

Test Requested	Conclusion
<b>RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]</b> (Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP))	Pass/ See result

Signed for and on behalf of

**SGS Vietnam LTD**



**To Ka Wing**

Chemical Lab Manager

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**Test result(s):**
**Test Part Description**

No.	Component	Material	Color
1	MONTMORILLONITE DESICCANT (CHAT HUT AM MONTMORILLONITE)	DESICCANT	--

**RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]**

Test Item(s):	Unit	Test Method	Results	RL	Limit	
			1			
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	ND	2	100	
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	23	2	1000	
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	ND	2	1000	
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2017 (Determination of CrVI by UV-VIS)	ND	8	1000	
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321:2015 (Determination of PBB by GC-MS)	ND	-	1000	
Monobromobiphenyl	mg/kg		ND	5	-	
Dibromobiphenyl	mg/kg		ND	5	-	
Tribromobiphenyl	mg/kg		ND	5	-	
Tetrabromobiphenyl	mg/kg		ND	5	-	
Hexabromobiphenyl	mg/kg		ND	5	-	
Pentabromobiphenyl	mg/kg		ND	5	-	
Heptabromobiphenyl	mg/kg		ND	5	-	
Octabromobiphenyl	mg/kg		ND	5	-	
Nonabromobiphenyl	mg/kg		ND	5	-	
Decabromobiphenyl	mg/kg		ND	5	-	
<b>Sum of PBDEs</b>	mg/kg		With reference to IEC 62321:2015 (Determination of PBDE by GC-MS)	ND	-	1000
Monobromodiphenyl ether	mg/kg			ND	5	-
Dibromodiphenyl ether	mg/kg	ND		5	-	
Tribromodiphenyl ether	mg/kg	ND		5	-	
Tetrabromodiphenyl ether	mg/kg	ND		5	-	
Pentabromodiphenyl ether	mg/kg	ND		5	-	
Hexabromodiphenyl ether	mg/kg	ND		5	-	
Heptabromodiphenyl ether	mg/kg	ND		5	-	
Octabromodiphenyl ether	mg/kg	ND		5	-	
Nonabromodiphenyl ether	mg/kg	ND		5	-	
Decabromodiphenyl ether	mg/kg	ND	5	-		
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DEHP by GC-MS)	ND	50	1000	
Butyl benzyl phthalate (BBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of BBP by GC-MS)	ND	50	1000	
Dibutyl phthalate (DBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DBP by GC-MS)	ND	50	1000	

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## Test Report

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Test Item(s):	Unit	Test Method	Results	RL	Limit
			1		
Diisobutyl phthalate (DIBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DIBP by GC-MS)	ND	50	1000

Note:

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. RL = Reporting Limit
3. ND = Not detected
4. - = not regulated
5. IEC 62321 is equivalent to EN 62321  
[http://www.cenelec.eu/dyn/www/f?p=104:110:721668440899381:::FSP\\_PROJECT,FSP\\_LANG\\_ID:20662,25](http://www.cenelec.eu/dyn/www/f?p=104:110:721668440899381:::FSP_PROJECT,FSP_LANG_ID:20662,25)
6. The above test(s) was / were accredited ISO 17025:2017 by VILAS  
The above test(s) was / were performed by SGS VN's Chemical lab.

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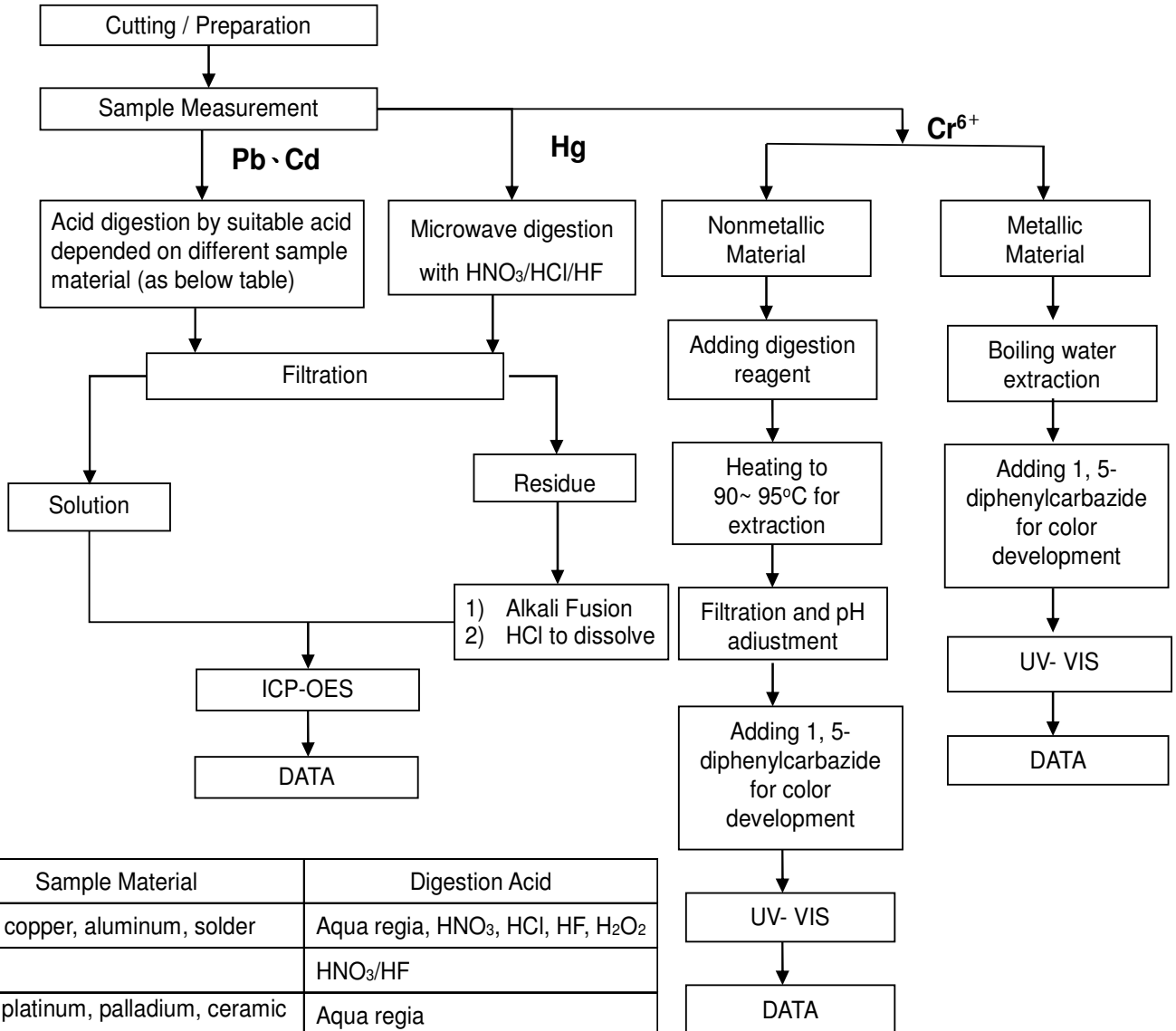
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Flow Chart for RoHS: Pb/Cd/Hg/Cr<sup>6+</sup> Testing

The samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

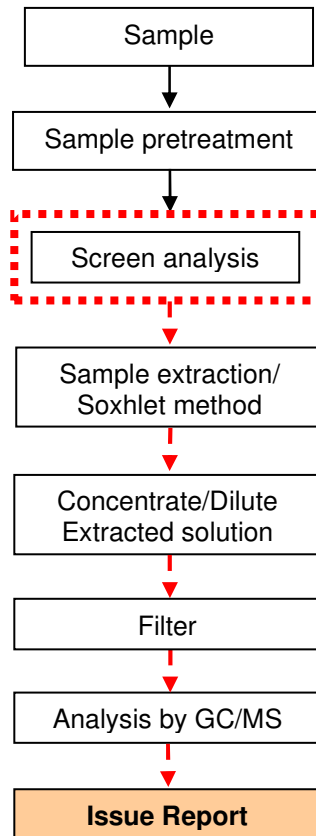
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**PBB/PBDE analytical FLOW CHART**

First testing process →  
 Optional screen process .....  
 Confirmation process -▶▶



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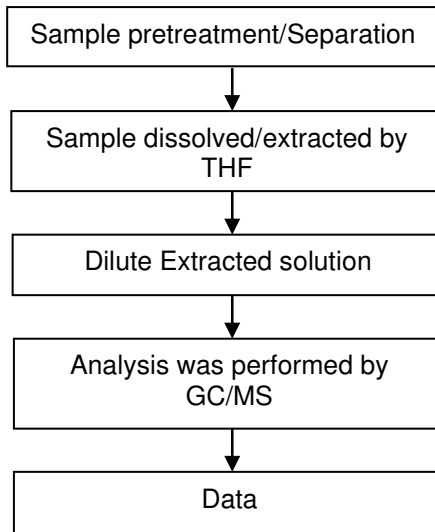
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Analytical flow chart of phthalate content

Test method: IEC 62321-8

First testing process →  
Optional screen process .....  
Confirmation process - -▶

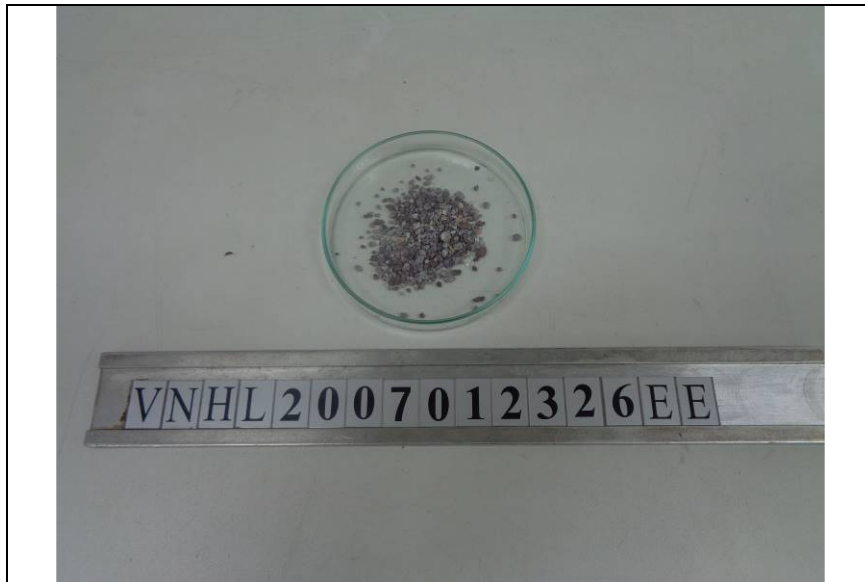


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PHOTO OF SUBMITTED SAMPLE FOR TESTING



REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY  
\*\*\*End of Report\*\*\*

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