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CHUNG TAI SING CHEMICAL INDUSTRY CO., LTD. 105 NIU PU SOUTH ROAD, HSINCHU, TAIWAN, R. O. C.

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By	: CHUNG TAI SING CHEMICAL INDUSTRY CO., LTD.
Sample Description	: PUFF DINO 192 SUPER GREASE
Style/Item No.	: DAG44
Sample Receiving Date	: 2017/01/09
Testing Period	: 2017/01/09 TO 2017/01/16

Test Requested

- : As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.
- : Please refer to next page(s). **Test Method** : Please refer to next page(s). Test Result(s) Conclusion : Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II.



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Test Result(s)

PART NAME No.1

	Unit	Mothed	MDI	Result No.1	المعدا ا
Test Item(s)		Method	MDL		Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 (2013)	2	n.d.	100
		and performed by ICP-AES.			
Lead (Pb)	mg/kg	With reference to IEC 62321-5 (2013)	2	n.d.	1000
		and performed by ICP-AES.			
Mercury (Hg)	mg/kg	With reference to IEC 62321-4 (2013)	2	n.d.	1000
		and performed by ICP-AES.			
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321 (2008)	2	n.d.	1000
		and performed by UV-VIS.			
Sum of PBBs	mg/kg		-	n.d.	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6 (2015) and performed by GC/MS.	5	n.d.	-
Dibromobiphenyl	mg/kg		5	n.d.	-
Tribromobiphenyl	mg/kg		5	n.d.	-
Tetrabromobiphenyl	mg/kg		5	n.d.	-
Pentabromobiphenyl	mg/kg		5	n.d.	-
Hexabromobiphenyl	mg/kg		5	n.d.	-
Heptabromobiphenyl	mg/kg		5	n.d.	-
Octabromobiphenyl	mg/kg		5	n.d.	-
Nonabromobiphenyl	mg/kg		5	n.d.	-
Decabromobiphenyl	mg/kg		5	n.d.	-
Sum of PBDEs	mg/kg		-	n.d.	1000
Monobromodiphenyl ether	mg/kg		5	n.d.	-
Dibromodiphenyl ether	mg/kg		5	n.d.	-
Tribromodiphenyl ether	mg/kg		5	n.d.	-
Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
Pentabromodiphenyl ether	mg/kg		5	n.d.	-
Hexabromodiphenyl ether	mg/kg		5	n.d.	-
Heptabromodiphenyl ether	mg/kg		5	n.d.	-
Octabromodiphenyl ether	mg/kg		5	n.d.	-
Nonabromodiphenyl ether	mg/kg		5	n.d.	-
Decabromodiphenyl ether	mg/kg		5	n.d.	-

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated

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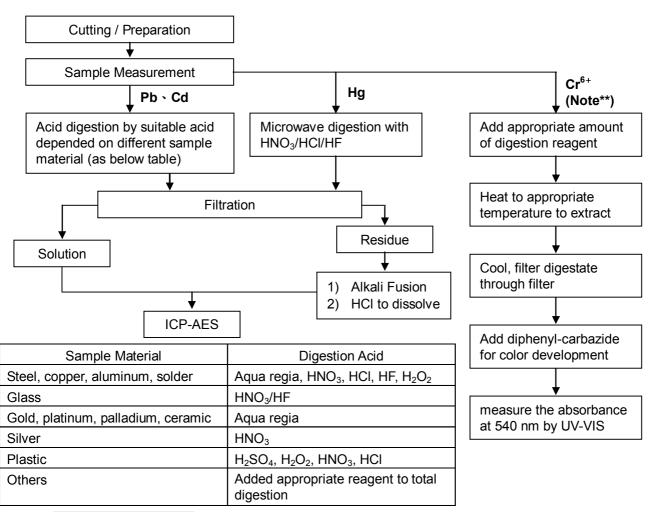
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These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)

- Technician: JR Wang
- Supervisor: Troy Chang



Note** (For IEC 62321)

- (1) For non-metallic material, add alkaline digestion reagent and heat to $90~95^{\circ}$ C.
- (2) For metallic material, add pure water and heat to boiling.

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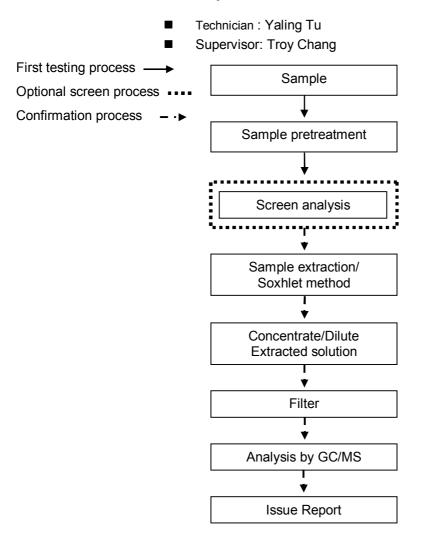
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Analytical flow chart - PBB/PBDE



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CHUNG TAI SING CHEMICAL INDUSTRY CO., LTD. 105 NIU PU SOUTH ROAD, HSINCHU, TAIWAN, R. O. C. * The tested sample / part is marked by an arrow if it's shown on the photo. *



** End of Report **

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