

No.: CE/2013/83826

Date: 2013/09/02

Page: 1 of 5

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 SPRAY PAINT

Style/Item No. : PP109 BLACK Sample Receiving Date : 2013/08/26

Testing Period : 2013/08/26 TO 2013/09/02

: As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to **Test Requested**

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; recasting 2002/95/EC.



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions



No.: CE/2013/83826 Date: 2013/09/02

Page: 2 of 5

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

Test Result(s)

PART NAME No.1 : BLACK PAINT

Test Item(s)	Unit	Method	MDL	Result	Limit
				No.1	
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 and	2	n.d.	1000
		performed by UV-VIS.			
Sum of PBBs	mg/kg		-	n.d.	1000
Monobromobiphenyl	mg/kg		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	With reference to IEC 62321: 2008 and	5	n.d.	-
Sum of PBDEs	mg/kg	performed by GC/MS.	-	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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document document to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

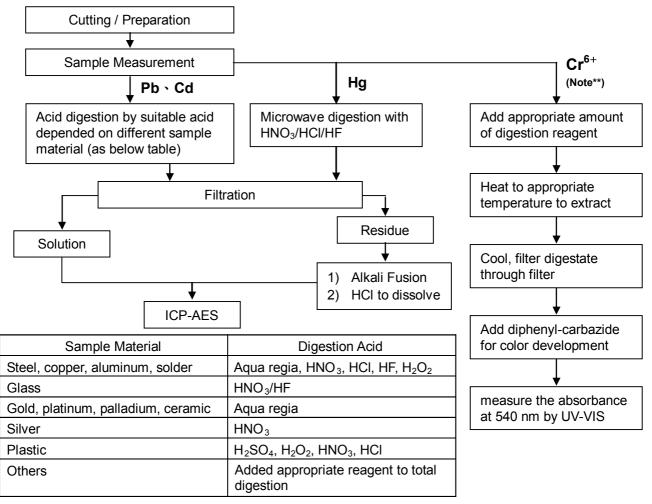


Page: 3 of 5 No.: CE/2013/83826 Date: 2013/09/02

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



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Note**: (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 ℃.

(2) For metallic material, add pure water and heat to boiling.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions



No.: CE/2013/83826

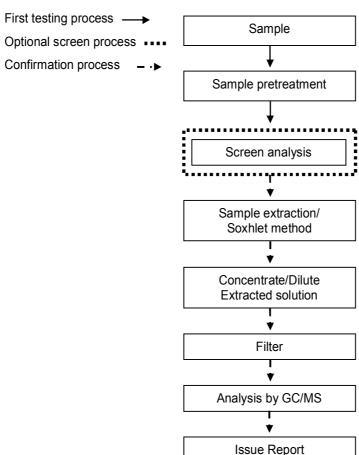
Date: 2013/09/02

Page: 4 of 5

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

PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document document to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



No.: CE/2013/83826

Date: 2013/09/02

Page: 5 of 5

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. *

CE/2013/83826



** End of Report **

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document document to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.