

Test Report

No. CANEC1703188613

Date: 14 Mar 2017

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AUMEI CHEMICALS CO.,LTD

RM9 9/F., BLOCK B TONIC IND.,CENTRE, 19LAM HING STREET, KOWLOON BAY KLN.,HK

The following sample(s) was/were submitted and identified on behalf of the clients as : UV glazing Varnish

SGS Job No. : CP17-009861 - SZ

Model No. : PLEASE SEE REMARK

Date of Sample Received : 06 Mar 2017

Testing Period : 06 Mar 2017 - 10 Mar 2017

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, 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) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

When tested as specified, the sum of total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted packaging sample(s) comply with the limit stated in European Council Directive 94/62/EC-Article 11 that effective June 2001 and its amendments.

When tested as specified, the sum of total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted packaging sample(s) comply with the limit of US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly drafted by CONEG)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

violet

Violet,Shi

Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Chemical Laboratory.

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN17-031886.003	Lt-yellow liquid

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

- Test Method :
- (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 - (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 - (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 - (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
 - (5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
 - (6)With reference to IEC 62321-8:2013 (111/321/CD) , determination of phthalates by GC-MS.

Test Item(s)	Limit	Unit	MDL	003
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Chemical Laboratory.

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Test Item(s)	Limit	Unit	MDL	003
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

European Directive 94/62/EC and its amendments - Total Lead, Cadmium, Mercury and Hexavalent Chromium Content

Test Method : With reference to GZTC CHEM-TOP-174-01. Analysis of Cadmium, Lead and Mercury was performed by ICP-OES. Analysis of Hexavalent Chromium (Cr(VI)) was performed by UV-Vis

Test Item(s)	Limit	Unit	MDL	003
Lead (Pb)	-	mg/kg	5	ND
Cadmium (Cd)	-	mg/kg	5	ND
Mercury (Hg)	-	mg/kg	5	ND
Hexavalent Chromium (CrVI)	-	mg/kg	5	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND

US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly drafted by CONEG) – Total Lead, Cadmium, Mercury and Hexavalent Chromium content

Test Method : With reference to GZTC CHEM-TOP-174-01. Analysis of Cadmium, Lead and Mercury was performed by ICP-OES. Analysis of Hexavalent Chromium (Cr(VI)) was performed by UV-Vis



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	-	mg/kg	5	ND
Lead (Pb)	-	mg/kg	5	ND
Mercury (Hg)	-	mg/kg	5	ND
Hexavalent Chromium (CrVI)	-	mg/kg	5	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND

Notes :

- (1) The TPCB legislation has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.

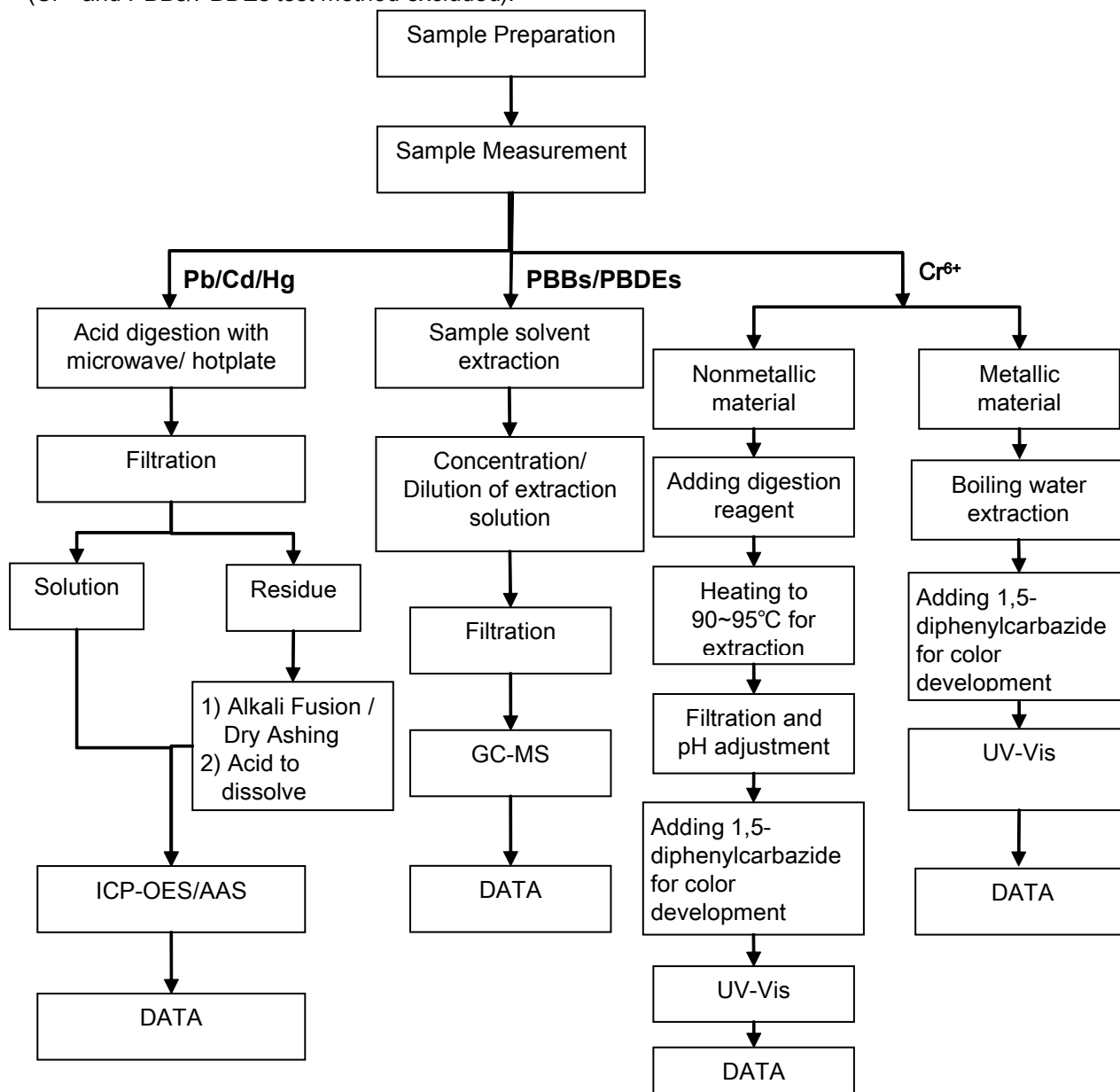
Remark : The result(s) shown is/are of the total weight of wet sample.



ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

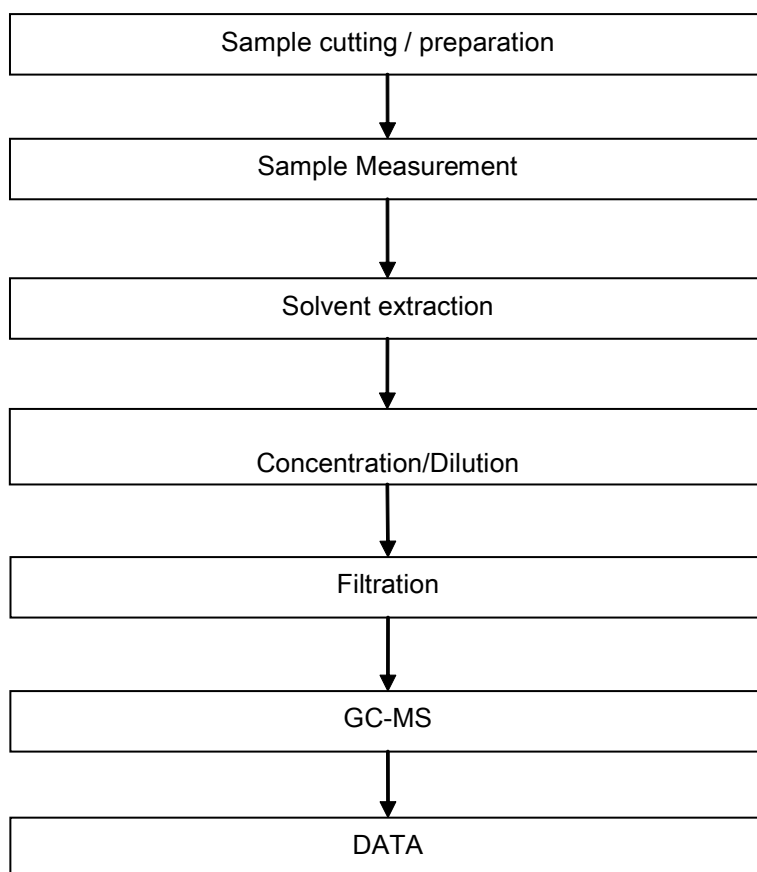
- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



ATTACHMENTS

Phthalates Testing Flow Chart

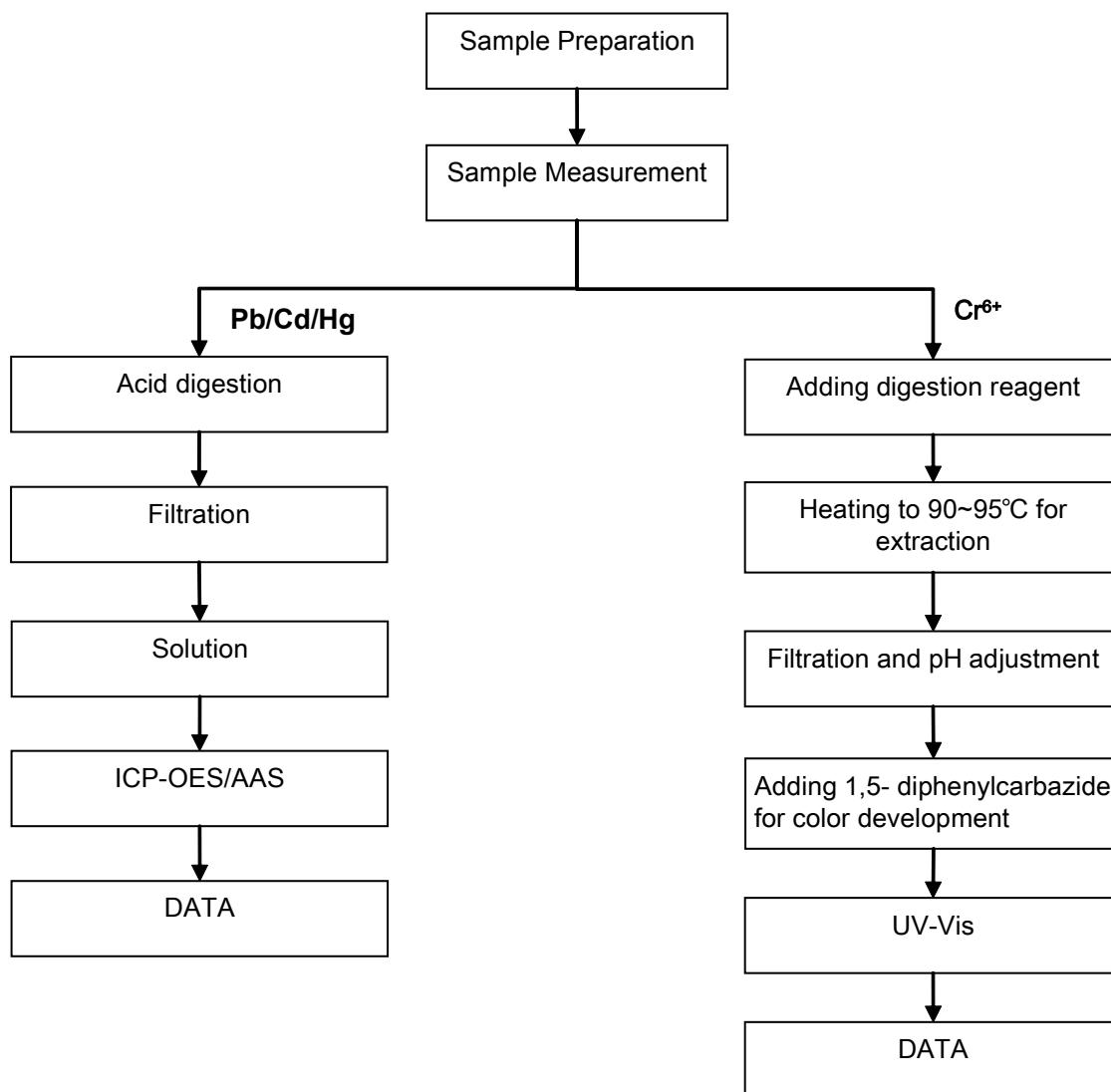
- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart

- 1) Name of the person who made testing: Edith Zhang
- 2) Name of the person in charge of testing: Bella Wang



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REMARK:

AM-222, AM-222A, 222B, 222C, AM-223, AM-224, AM-225, AM-226, AM-227,
AM-228, AM-229, 311, 312, AM-333, AM-401, AM-402, AM-403, AM-405,
AM-406, AM-408, AM-408A, AM-411, AM-411A, AM-411B, AM-412, AM-413,
AM-414, AM-415, AM-416, AM-416A, AM-422, AM-422A, AM-423, AM-426,
AM-428, AM-429, AM-433, AM-438, AM-439, AM-461, AM-462, AM-463, AM-465,
AM-466, AM-466A, AM-467, AM-468, AM-469, AM-471, AM-472, AM-473, AM-475,
AM-476, AM-477, AM-478, AM-479, AM-481, AM-482, AM-483, AM-485, AM-486,
AM-487, AM-488, AM-489, AM-491, AM-492, AM-493, AM-495, AM-496, AM-497,
AM-498, AM-499, AM-511, AM-512, AM-513, AM-514, AM-515, AM-516, AM-517,
AM-518, AM-519, AM-530, AM-531, AM-532, AM-533, AM-535, AM-536, AM-537,
AM-539, AM-560, AM-561, AM-563, AM-567, AM-571, AM-571F, AM-578, AM-579,
AM-612, AM-648, AM-661, AM-662, AM-663, AM-663A, AM-663F, AM-666, AM-668,
AM-670, 670A, 670E, 670F, 670H, AM-671, AM-672, AM-673, AM-674, AM-675,
AM-676, AM-677, AM-678, AM-679, AM-684, AM-685, AM-686, AM-687, AM-688,
AM-689, AM-696, AM-697, AM-698, AM-770, AM-771, AM-772, AM-773, AM-775,
AM-776, AM-777, AM-778, AM-779, AM-5183, AM-5184, AM-5185, AM-5186, AM-5200
AM-600, AM-609, AM-609A, AM-702, AM-702A, AM-704, AM-704A, AM-800, AM-801,
AM-802, AM-802A, AM-803, AM-803A, AM-804, AM-804A, AM-804B, AM-804C, AM-804E,
AM-805, AM-806, AM-806A, AM-806B, AM-807, AM-807A, AM-808, AM-809, AM-809A,
AM-809B, AM-899, AM-900, AM-900A, AM-901, AM-901A, AM-902, AM-902A, AM-903,
AM-904, AM-904A, AM-905, AM-906, AM-907, AM-907-1, AM-907A, AM-907B,
AM-907B-1, AM-907HL, AM-908, AM-909, AM-911, AM-912, AM-913, AM-914, AM-915,
AM-916, AM-917, AM-918, AM-919, AM-920, AM-921, AM-922, AM-923, AM-924,
AM-925, AM-926, AM-927, AM-928, AM-929 Mixture



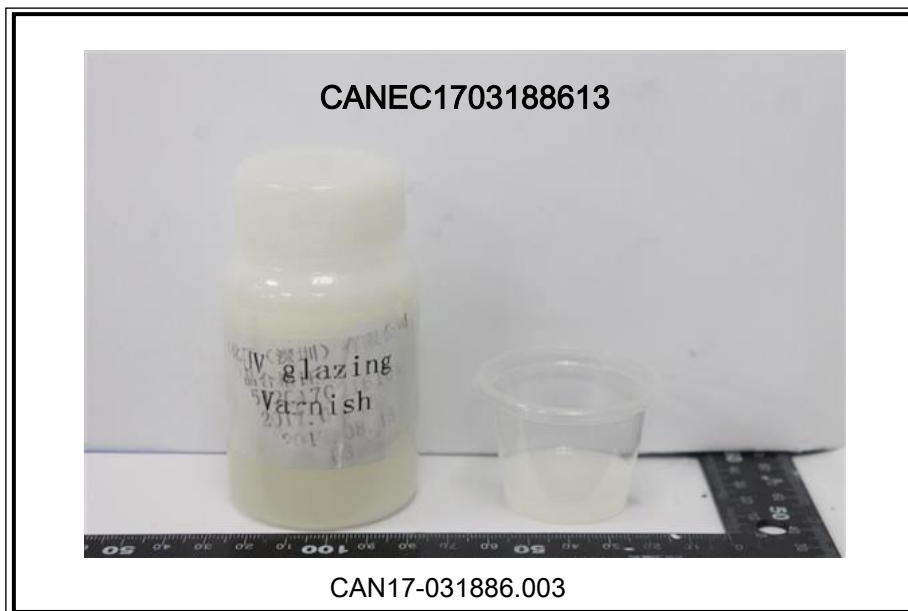
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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

