

Test Report

No. XMNML1901637201

Date: 27 Nov 2019

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HOLLYLAND(CHINA) ELECTRONICS TECHNOLOGY CORPORATION LIMITED & HOLLYLAND(XIAMEN) TECHNOLOGY CORPORATION LIMITED

NO.829, FANGSHAN EAST 2ND ROAD, XIANG'AN, XIAMEN, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Material for: 5RF.5RT.5EF.5ET.SCH.SCT.SRT RoHS& Pb Free Series

SGS Job No. : XMIN1911008128PC - XM

Date of Sample Received : 11 Nov 2019

Testing Period : 11 Nov 2019 - 26 Nov 2019

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 selected part of submitted sample(s), the results of 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) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Rae chen

Rae Chen
Approved Signatory



XMNML1901637201



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	XMN19-016372.001	Reddish brown plastic cap(said to be"Hermoplastic Cap")
SN2	XMN19-016372.002	Black plastic shell(said to be"Base")
SN3	XMN19-016372.003	Copper-colored metal pin(after removed silvery metal plating)(said to be"Lead Wire(In Base)")
SN4	XMN19-016372.004	Silvery metal plating on metal pin(said to be"The Plating of Lead Wire(In Base)")
SN5	XMN19-016372.005	Silvery metal wire(said to be"Element")
SN6	XMN19-016372.006	White thread(said to be"Glass fiber")
SN7	XMN19-016372.008	Silvery metal wire(said to be"Solder")

Remarks :

- (1) 1 mg/kg = 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 : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit	MDL	001	002	006
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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

Test Method : With reference to IEC 62321-4:2013+A1:2017 , IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	Limit	Unit	MDL	003	005	008
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	3	13	11
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	0.10	ND	ND	ND



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Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
<https://www.cenelec.eu/dyn/www/f?>
 p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
 b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm2). The coating is considered a non-CrVI based coating
 c. The result between 0.10 µg/cm2 and 0.13 µg/cm2 is considered to be inconclusive - unavoidable coating variations may influence the determination
 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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

Test Method : With reference to IEC 62321-4:2013+A1:2017 , IEC62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	Limit	Unit	MDL	004
Cadmium (Cd)	100	mg/kg	10	ND
Lead (Pb)	1,000	mg/kg	10	64
Mercury (Hg)	1,000	mg/kg	10	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	0.10	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
<https://www.cenelec.eu/dyn/www/f?> p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
 b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm2). The coating is considered a non-CrVI based coating
 c. The result between 0.10 µg/cm2 and 0.13 µg/cm2 is considered to be inconclusive - unavoidable coating variations may influence the determination
 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Element(s)



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Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method 3052: 1996), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>006</u>
Antimony (Sb)	mg/kg	10	ND	ND	ND
Arsenic (As)	mg/kg	10	ND	ND	ND
Phosphorus (P)	mg/kg	20	ND	71	

Halogen

Test Method : With reference to EN 14582:2016, analysis was performed by IC.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>006</u>
Fluorine (F)	mg/kg	50	ND	ND	163
Chlorine (Cl)	mg/kg	50	ND	ND	92
Bromine (Br)	mg/kg	50	ND	ND	ND
Iodine (I)	mg/kg	50	ND	ND	ND

Asbestos

Test Method : With reference to ISO 22262-1:2012, analysis was performed by PLM.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Chrysotile	12001-29-5	% (m/m)	0.1	Negative	Negative
Amosite	12172-73-5	% (m/m)	0.1	Negative	Negative
Crocidolite	12001-28-4	% (m/m)	0.1	Negative	Negative
Anthophyllite	77536-67-5	% (m/m)	0.1	Negative	Negative
Tremolite	77536-68-6	% (m/m)	0.1	Negative	Negative
Actinolite	77536-66-4	% (m/m)	0.1	Negative	Negative

Notes :

- (1) Negative means the absence of asbestos, Positive means the presence of asbestos.
- (2) XRD will be used to confirm when the result is positive (by PLM method)

Antimony (Sb) and Arsenic (As)

Test Method : SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B: 1996), analysis was performed by ICP-OES.



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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
Antimony (Sb)	mg/kg	10	ND	ND	ND
Arsenic (As)	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>
Antimony (Sb)	mg/kg	10	ND
Arsenic (As)	mg/kg	10	ND

Polychlorinated Naphthalenes (PCNs)

Test Method : SGS In-house method(GZTC CHEM-TOP-032-01 , with reference to EPA 8082A:2007 and EPA 8270E:2017),analysis was performed by GC-ECD/GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
1-Chlorinated Naphthalene	mg/kg	5	ND	ND
2-Chlorinated Naphthalene	mg/kg	5	ND	ND
1,4-Dichlorinated Naphthalene	mg/kg	5	ND	ND
1,5-Dichlorinated Naphthalene	mg/kg	5	ND	ND
1,2-Dichlorinated Naphthalene	mg/kg	5	ND	ND
1,8-Dichlorinated Naphthalene	mg/kg	5	ND	ND
1,2,3-Trichlorinated Naphthalene	mg/kg	5	ND	ND
1,2,3,4-Tetrachlorinated Naphthalene	mg/kg	5	ND	ND
1,2,3,4,6-Pentachlorinated Naphthalene	mg/kg	5	ND	ND
Octa-chlorinaed Naphthalene	mg/kg	5	ND	ND

Hexachloroethane

Test Method : SGS In-house method(GZTC CHEM-TOP-251-01 , with reference to 3550C:2007),analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Hexachlorobutadiene	87-68-3	mg/kg	10	ND	ND

ODS



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Test Method : SGS In-house method (GZTC CHEM-TOP-201-01, With reference to US EPA Method 5021A:2014), analysis was performed by HS-GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
CFC					
CFC-11	75-69-4	mg/kg	0.1	ND	ND
CFC-12	75-71-8	mg/kg	0.1	ND	ND
CFC-113	76-13-1	mg/kg	0.1	ND	ND
CFC-114	76-14-2	mg/kg	0.1	ND	ND
CFC-13	75-72-9	mg/kg	0.1	ND	ND
CFC-111	354-56-3	mg/kg	0.1	ND	ND
CFC-112	76-11-9	mg/kg	0.1	ND	ND
CFC-112	76-12-0	mg/kg	0.1	ND	ND
CFC-113	354-58-5	mg/kg	0.1	ND	ND
CFC-114	374-07-2	mg/kg	0.1	ND	ND
CFC-115	76-15-3	mg/kg	0.1	ND	ND
CFC-211	422-78-6	mg/kg	0.1	ND	ND
CFC-212	661-96-1	mg/kg	0.1	ND	ND
CFC-213	1652-89-7	mg/kg	0.1	ND	ND
CFC-214	677-68-9	mg/kg	0.1	ND	ND
CFC-215	1599-41-3	mg/kg	0.1	ND	ND
CFC-215	76-17-5	mg/kg	0.1	ND	ND
CFC-216	661-97-2	mg/kg	0.1	ND	ND
CFC-216	1652-80-8	mg/kg	0.1	ND	ND
CFC-217	422-86-6	mg/kg	0.1	ND	ND
HCFC					
HCFC-21	75-43-4	mg/kg	0.1	ND	ND
HCFC-22	75-45-6	mg/kg	0.1	ND	ND
HCFC-123	306-83-2	mg/kg	0.1	ND	ND
HCFC-124	2837-89-0	mg/kg	0.1	ND	ND
HCFC-141b	1717-00-6	mg/kg	0.1	ND	ND
HCFC-142b	75-68-3	mg/kg	0.1	ND	ND
HCFC-31	593-70-4	mg/kg	0.1	ND	ND
HCFC-121	354-14-3	mg/kg	0.1	ND	ND
HCFC-122	354-21-2	mg/kg	0.1	ND	ND
HCFC-123a	354-23-4	mg/kg	0.1	ND	ND
HCFC-124a	354-25-6	mg/kg	0.1	ND	ND
HCFC-131	359-28-4	mg/kg	0.1	ND	ND
HCFC-131a	811-95-0	mg/kg	0.1	ND	ND
HCFC-132a	471-43-2	mg/kg	0.1	ND	ND



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HCFC-132b	1649-08-7	mg/kg	0.1	ND	ND
HCFC-133a	75-88-7	mg/kg	0.1	ND	ND
HCFC-221	422-26-4	mg/kg	0.1	ND	ND
HCFC-222	422-30-0	mg/kg	0.1	ND	ND
HCFC-223	422-52-6	mg/kg	0.1	ND	ND
HCFC_224	422-54-8	mg/kg	0.1	ND	ND
HCFC-225ca	422-56-0	mg/kg	0.1	ND	ND
HCFC-225cb	507-55-1	mg/kg	0.1	ND	ND
HCFC-226	431-87-8	mg/kg	0.1	ND	ND
HCFC-231	421-94-3	mg/kg	0.1	ND	ND
HCFC-232	460-89-9	mg/kg	0.1	ND	ND
HCFC-233	7125-84-0	mg/kg	0.1	ND	ND
HCFC-234	425-94-5	mg/kg	0.1	ND	ND
HCFC-235	460-92-4	mg/kg	0.1	ND	ND
HCFC-241	666-27-3	mg/kg	0.1	ND	ND
HCFC-242	460-63-9	mg/kg	0.1	ND	ND
HCFC-243	338-75-0	mg/kg	0.1	ND	ND
HCFC-244	679-85-6	mg/kg	0.1	ND	ND
HCFC-251	421-41-0	mg/kg	0.1	ND	ND
HCFC-252	819-00-1	mg/kg	0.1	ND	ND
HCFC-253	460-35-5	mg/kg	0.1	ND	ND
HCFC-261	7799-56-6	mg/kg	0.1	ND	ND
HCFC-261	420-97-3	mg/kg	0.1	ND	ND
HCFC-271	430-55-7	mg/kg	0.1	ND	ND
HCFC-262	102738-79-4	mg/kg	0.1	ND	ND
HCFC-262	420-99-5	mg/kg	0.1	ND	ND
HBFC					
CHF ₂ Br	1511-62-2	mg/kg	0.1	ND	ND
CH ₂ FBr	373-52-4	mg/kg	0.1	ND	ND
C ₂ HFBr ₄		mg/kg	0.1	ND	ND
C ₂ HF ₂ Br ₃		mg/kg	0.1	ND	ND
C ₂ HF ₃ Br ₂	354-04-1	mg/kg	0.1	ND	ND
C ₂ HF ₄ Br		mg/kg	0.1	ND	ND
C ₂ H ₂ FBr ₃		mg/kg	0.1	ND	ND
C ₂ H ₂ F ₂ Br ₂	75-82-1	mg/kg	0.1	ND	ND
C ₂ H ₂ F ₃ Br	421-06-7	mg/kg	0.1	ND	ND
C ₂ H ₃ FBr ₂		mg/kg	0.1	ND	ND
C ₂ H ₃ F ₂ Br	359-07-9	mg/kg	0.1	ND	ND
C ₂ H ₄ FBr	762-49-2	mg/kg	0.1	ND	ND
C ₃ HFB ₆		mg/kg	0.1	ND	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
C ₃ HF ₂ Br ₅		mg/kg	0.1	ND	ND
C ₃ HF ₃ Br ₄		mg/kg	0.1	ND	ND
C ₃ HF ₄ Br ₃		mg/kg	0.1	ND	ND
C ₃ HF ₅ Br ₂		mg/kg	0.1	ND	ND
C ₃ HF ₆ Br		mg/kg	0.1	ND	ND
C ₃ H ₂ FBr ₅		mg/kg	0.1	ND	ND
C ₃ H ₂ F ₂ Br ₄		mg/kg	0.1	ND	ND
C ₃ H ₂ F ₃ Br ₃		mg/kg	0.1	ND	ND
C ₃ H ₂ F ₄ Br ₂		mg/kg	0.1	ND	ND
C ₃ H ₂ F ₅ Br		mg/kg	0.1	ND	ND
C ₃ H ₃ FBr ₄		mg/kg	0.1	ND	ND
C ₃ H ₃ F ₂ Br ₃		mg/kg	0.1	ND	ND
C ₃ H ₃ F ₃ Br ₂		mg/kg	0.1	ND	ND
C ₃ H ₃ F ₄ Br		mg/kg	0.1	ND	ND
C ₃ H ₄ FBr ₃		mg/kg	0.1	ND	ND
C ₃ H ₄ F ₂ Br ₂		mg/kg	0.1	ND	ND
C ₃ H ₄ F ₃ Br		mg/kg	0.1	ND	ND
C ₃ H ₅ FBr ₂		mg/kg	0.1	ND	ND
C ₃ H ₅ F ₂ Br		mg/kg	0.1	ND	ND
C ₃ H ₆ FBr		mg/kg	0.1	ND	ND
Halon					
Halon 1211	353-59-3	mg/kg	0.1	ND	ND
Halon 1301	75-63-8	mg/kg	0.1	ND	ND
Halon 2402	124-73-2	mg/kg	0.1	ND	ND
Others					
Dibromofluoromethane	1868-53-7	mg/kg	0.1	ND	ND
Methyl bromide	74-83-9	mg/kg	0.1	ND	ND
Bromochloromethane	74-97-5	mg/kg	0.1	ND	ND
HFC					
HFC-23	75-46-7	mg/kg	0.1	ND	ND
HFC-32	75-10-5	mg/kg	0.1	ND	ND
HFC-41	593-53-3	mg/kg	0.1	ND	ND
HFC-43-10mee		mg/kg	0.1	ND	ND
HFC-125	354-33-6	mg/kg	0.1	ND	ND
HFC-134	359-35-3	mg/kg	0.1	ND	ND
HFC-134a	811-97-2	mg/kg	0.1	ND	ND
HFC-152a	75-37-6	mg/kg	0.1	ND	ND
HFC-143	420-46-2	mg/kg	0.1	ND	ND
HFC-143a	430-66-0	mg/kg	0.1	ND	ND
HFC-227ea		mg/kg	0.1	ND	ND



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HFC-236cb		mg/kg	0.1	ND	ND
HFC-236ea	431-63-0	mg/kg	0.1	ND	ND
HFC-236fa	690-39-1	mg/kg	0.1	ND	ND
HFC-245ca	679-86-7	mg/kg	0.1	ND	ND
HFC-245fa		mg/kg	0.1	ND	ND
HFC-365mfc		mg/kg	0.1	ND	ND
HFC-161	353-36-6	mg/kg	0.1	ND	ND
HFC_152	-	mg/kg	0.1	ND	ND
PFC					
Perfluoromethane	75-73-0	mg/kg	0.1	ND	ND
Perfluoroethane	76-16-4	mg/kg	0.1	ND	ND
Perfluoropropane	76-19-7	mg/kg	0.1	ND	ND
Perfluorobutane	355-25-9	mg/kg	0.1	ND	ND
Perfluoropentane	678-26-2	mg/kg	0.1	ND	ND
Perfluorohexane	355-42-0	mg/kg	0.1	ND	ND
Perfluorocyclobutane	115-25-3	mg/kg	0.1	ND	ND
CHC					
1,3-dichloropropane	142-28-9	mg/kg	0.1	ND	ND
2,2-dichloropropane	594-20-7	mg/kg	0.1	ND	ND
Carbon tetrachloride	56-23-5	mg/kg	0.1	ND	ND
chloroethane	75-00-3	mg/kg	0.1	ND	ND
Chloroform	67-66-3	mg/kg	0.1	ND	ND
chloromethane	74-87-3	mg/kg	0.1	ND	ND
Cis-1,2-dichloroethene	156-59-2	mg/kg	0.1	ND	ND
Cis-1,3-dichloropropene	10061-01-5	mg/kg	0.1	ND	ND
Hexachlorobutadiene	87-68-3	mg/kg	0.1	ND	ND
Methylene chloride	75-09-2	mg/kg	0.1	ND	ND
Tetrachloroethene	127-18-4	mg/kg	0.1	ND	ND
Trans-1,2-dichloroethene	156-60-5	mg/kg	0.1	ND	ND
Trans-1,3-dichloropropene	10061-02-6	mg/kg	0.1	ND	ND
Trichloroethylene	79-01-6	mg/kg	0.1	ND	ND
1,1,1,2-tetrachloroethane	630-20-6	mg/kg	0.1	ND	ND
1,1,1-trichloroethane	71-55-6	mg/kg	0.1	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	mg/kg	0.1	ND	ND
1,1,2-trichloroethane	79-00-5	mg/kg	0.1	ND	ND
1,1-dichloroethane	75-35-4	mg/kg	0.1	ND	ND
1,1-dichloroethene	75-35-4	mg/kg	0.1	ND	ND
1,1-dichloropropene	563-58-6	mg/kg	0.1	ND	ND
1,2,3-trichloropropane	96-18-4	mg/kg	0.1	ND	ND
1,2-dichloroethane	107-06-2	mg/kg	0.1	ND	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
1,2-dichloropropane	78-87-5	mg/kg	0.1	ND	ND
Sulphur Hexafluoride - SF ₆		mg/kg	0.1	ND	ND

Dimethyl Fumarate (DMF)

Test Method : SGS In house method(GZTC CHEM-TOP-095), analysis was performed by GC-MS

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Dimethyl Fumarate (DMF)	mg/kg	0.1	ND	ND

Hexabromocyclododecane (HBCDD)

Test Method : With reference to IEC 62321-6:2015, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND	ND

Polychlorinated Terphenyls (PCTs)

Test Method : SGS In-house method(GZTC CHEM-TOP-032-01 , with reference to EPA 8082A:2007 and EPA 8270E:2017),analysis was performed by GC-ECD/GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Aroclor 5432	mg/kg	5	ND	ND
Aroclor 5442	mg/kg	5	ND	ND
Aroclor 5460	mg/kg	5	ND	ND

Notes :

Azo Dyes

Test Method : With reference to ISO 14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3): with reference to ISO 14362-3:2017, analysis was conducted with GC-MS/HPLC-DAD.



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Test Item(s)	CAS NO.	Limit	Unit	MDL	001	
					Method A	Method B
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	30	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm ethane	838-88-0	30	mg/kg	5	ND	ND



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Test Item(s)	CAS NO.	Limit	Unit	MDL	001	
					Method A	Method B
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	30	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
Comment					PASS	PASS



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Test Item(s)	CAS NO.	Limit	Unit	MDL	002	
					Method A	Method B
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	30	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm ethane	838-88-0	30	mg/kg	5	ND	ND



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Test Item(s)	CAS NO.	Limit	Unit	MDL	002	
					Method A	Method B
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	30	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
Comment					PASS	PASS

Notes :

(1)Method A is direct reduction, direct reduction refers to the extraction and reduction according to ISO



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14362-1:2017 clause 9.2 and relevant clauses. Method B is colorant extraction, colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 clause 9.1 and relevant clauses.

(2)The ISO 14362-1:2017 methods will enable further cleavage of 4 aminoazobenzene to non forbidden amines: aniline and 1,4 phenylenediamine, therefore, the test method of ISO 14362-3:2017 was employed to verify the presence of 4 aminoazobenzene.

(3)Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).

(4)Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Test Method : SGS In-house method (GZTC CHEM-TOP-096-02, with reference to US EPA Method 3550C:2007), analysis was performed by GC-NCI-MS/GC-ECD.

Test Item(s)	Unit	MDL	001
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	mg/kg	50	ND

Test Item(s)	Unit	MDL	002
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	mg/kg	50	ND

Polychlorinated Biphenyls (PCBs)

Test Method : SGS In-house method(GZTC CHEM-TOP-032-01 , with reference to EPA 8082A:2007 and EPA 8270E:2017),analysis was performed by GC-ECD/GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
2.4.4'-Trichlorobiphenyl (PCB 28)	7012-37-5	mg/kg	0.5	ND
2.2'.5.5'-Tetrachloro-biphenyl (PCB 52)	35693-99-3	mg/kg	0.5	ND
2.2'.4.5.5'-Pentachloro-biphenyl (PCB 101)	37680-73-2	mg/kg	0.5	ND
2.3'.4.4'.5-Pentachlorobiphenyl (PCB 118)	31508-00-6	mg/kg	0.5	ND
2.2'3.4.4'.5'-Hexachloro-biphenyl (PCB 138)	35065-28-2	mg/kg	0.5	ND
2.2'.4.4'.5.5'-Hexachloro-biphenyl (PCB 153)	35065-27-1	mg/kg	0.5	ND



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Test Report

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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
2.2'.3.4.4'.5.5'-Heptachlorobiphenyl (PCB 180)	35065-29-3	mg/kg	0.5	ND

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
2.4.4'-Trichlorobiphenyl (PCB 28)	7012-37-5	mg/kg	0.5	ND
2.2'.5.5'-Tetrachloro-biphenyl (PCB 52)	35693-99-3	mg/kg	0.5	ND
2.2'.4.5.5'-Pentachloro-biphenyl (PCB 101)	37680-73-2	mg/kg	0.5	ND
2.3'.4.4'.5-Pentachlorobiphenyl (PCB 118)	31508-00-6	mg/kg	0.5	ND
2.2'3.4.4'.5'-Hexachloro-biphenyl (PCB 138)	35065-28-2	mg/kg	0.5	ND
2.2'.4.4'.5.5'-Hexachloro-biphenyl (PCB 153)	35065-27-1	mg/kg	0.5	ND
2.2'.3.4.4'.5.5'-Heptachlorobiphenyl (PCB 180)	35065-29-3	mg/kg	0.5	ND

Organic-tin compounds

Test Method : With reference to ISO 17353: 2004 , analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl tin (DBT)	mg/kg	0.02	ND
Tributyl tin (TBT)	mg/kg	0.02	ND
Diocetyl tin (DOT)	mg/kg	0.02	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Dibutyl tin (DBT)	mg/kg	0.02	ND
Tributyl tin (TBT)	mg/kg	0.02	ND
Diocetyl tin (DOT)	mg/kg	0.02	ND

PFOS (Perfluorooctane Sulfonates)

Test Method : SGS In-house method (GZTC CHEM-TOP-062-04, with reference to US EPA Method 3550C:2007), analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Notes :

- (1) For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004: For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.



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For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m2 of the coated material.

(2)^: PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.

Phthalates

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Dibutyl Phthalate (DBP)	84-74-2	% (w/w)	0.003	ND	ND
Benzylbutyl Phthalate (BBP)	85-68-7	% (w/w)	0.003	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	% (w/w)	0.003	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	% (w/w)	0.010	ND	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	% (w/w)	0.003	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	% (w/w)	0.010	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	% (w/w)	0.003	ND	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	% (w/w)	0.003	ND	ND

Notes :

(1)DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:



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i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information

(2)DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

Flame retardant(s)

Test Method : SGS In-house method (GZTC CHEM-TOP-149-04, with reference to US EPA Method 3550C:2007), analysis by GC-MS and HPLC-DAD/MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Tris(1,3-dichloro-2-propyl) Phosphate(TDCPP)	13674-87-8	mg/kg	5	ND	ND
Tris(2-chloroethyl) Phosphate(TCEP)	115-96-8	mg/kg	5	ND	ND
Tris(1-chloro-2-propyl) Phosphate (TCPP)	13674-84-5	mg/kg	5	ND	ND

Remark: The test was subcontracted to SGS Guangzhou chemical lab.



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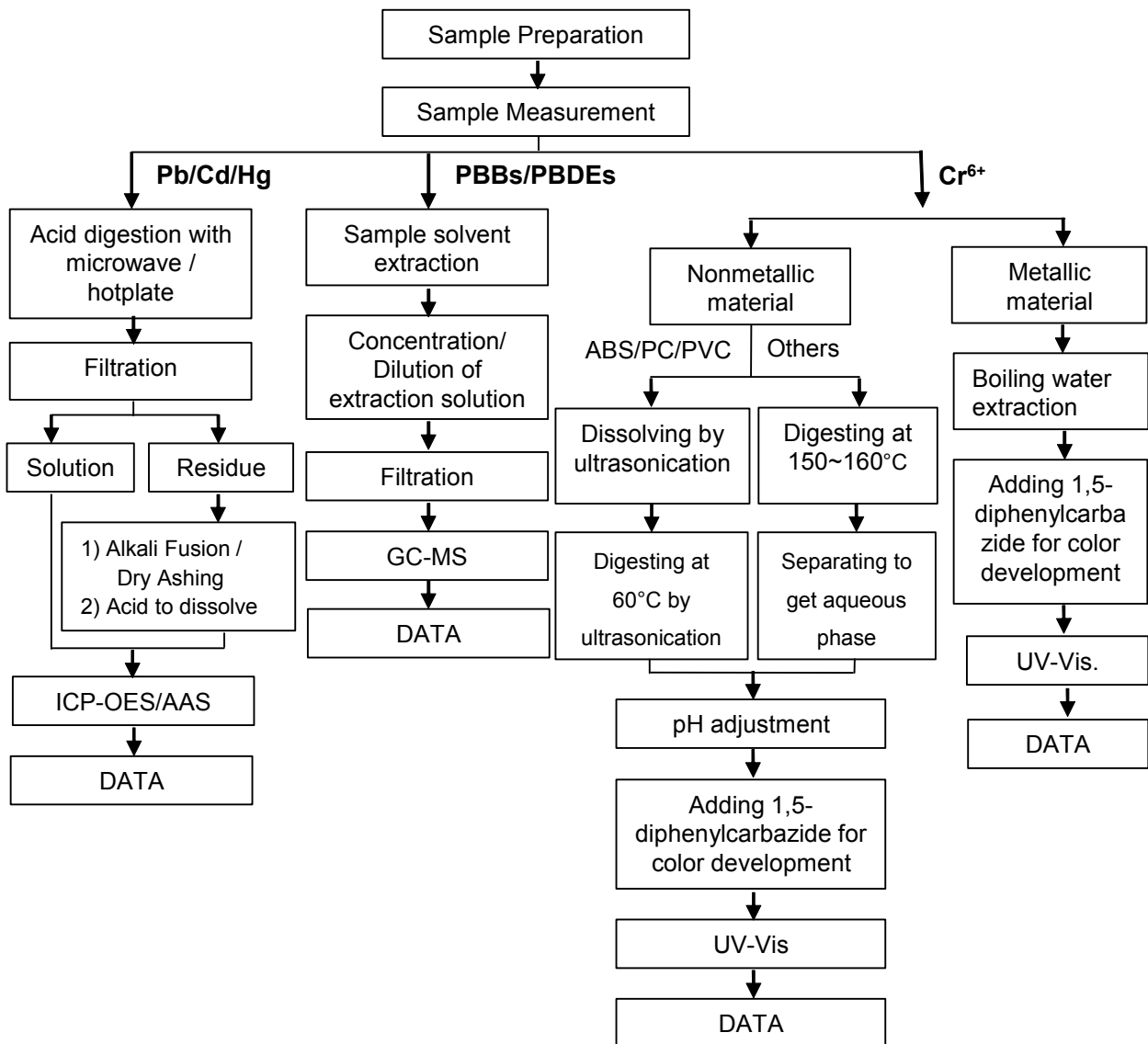
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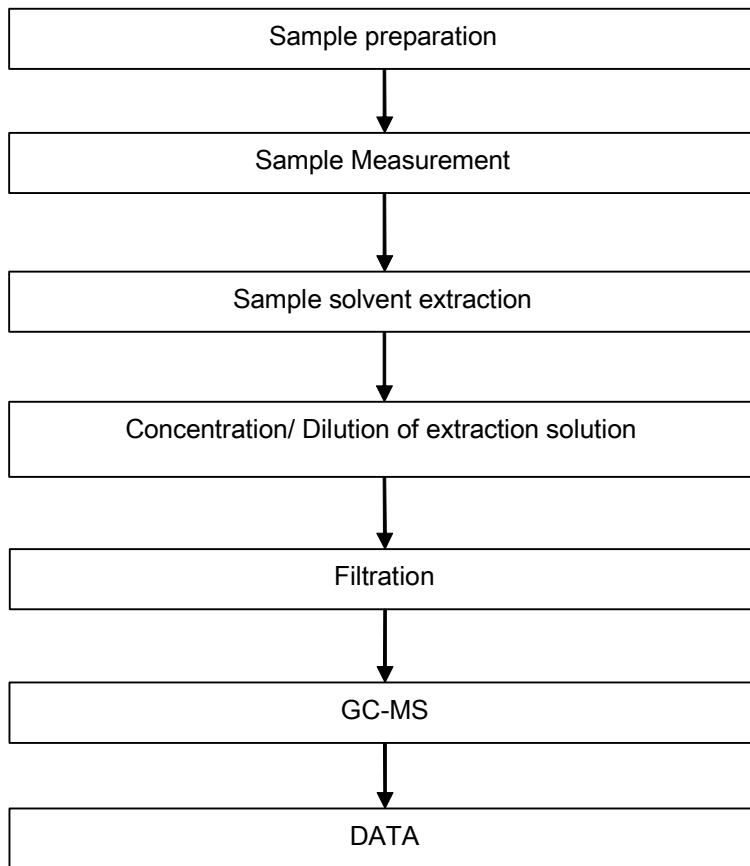
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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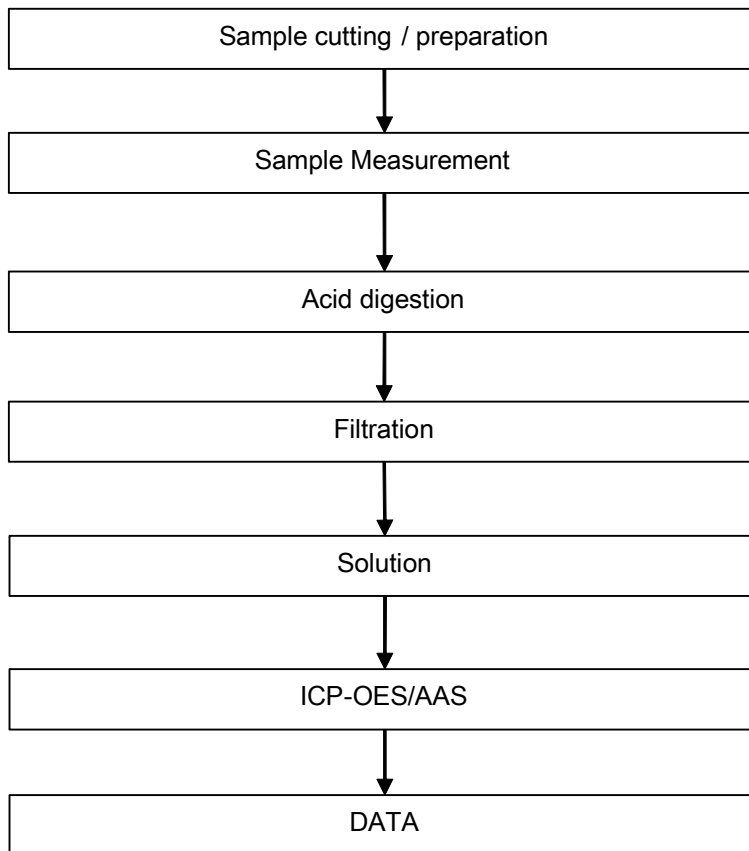
Phthalates Testing Flow Chart



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Elementary Testing Flow Chart

These samples were dissolved totally by pre -conditioning method according to below flow chart.

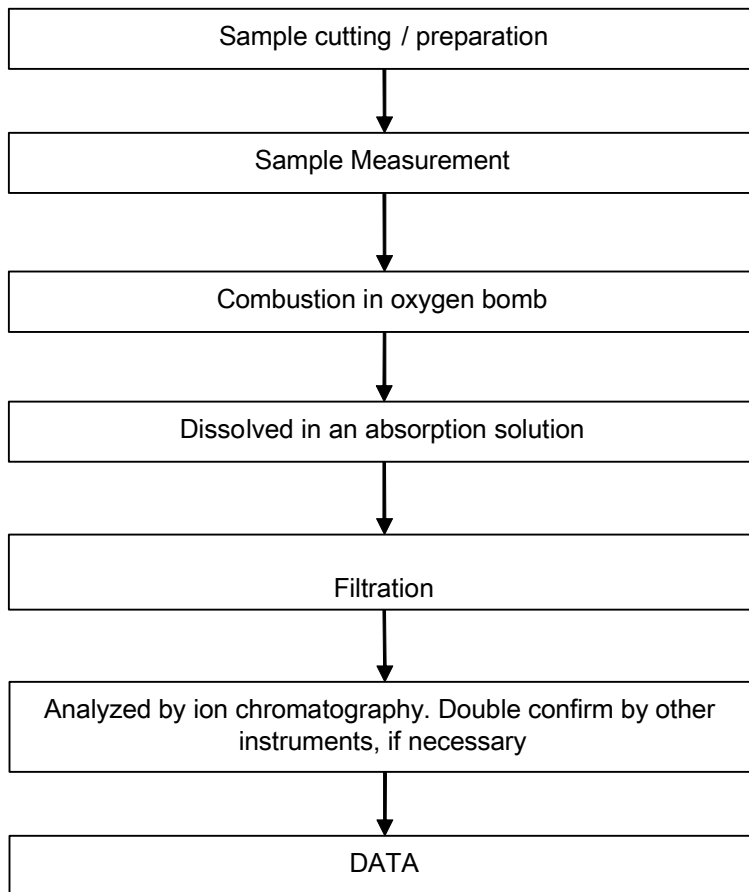


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Halogen Testing Flow Chart

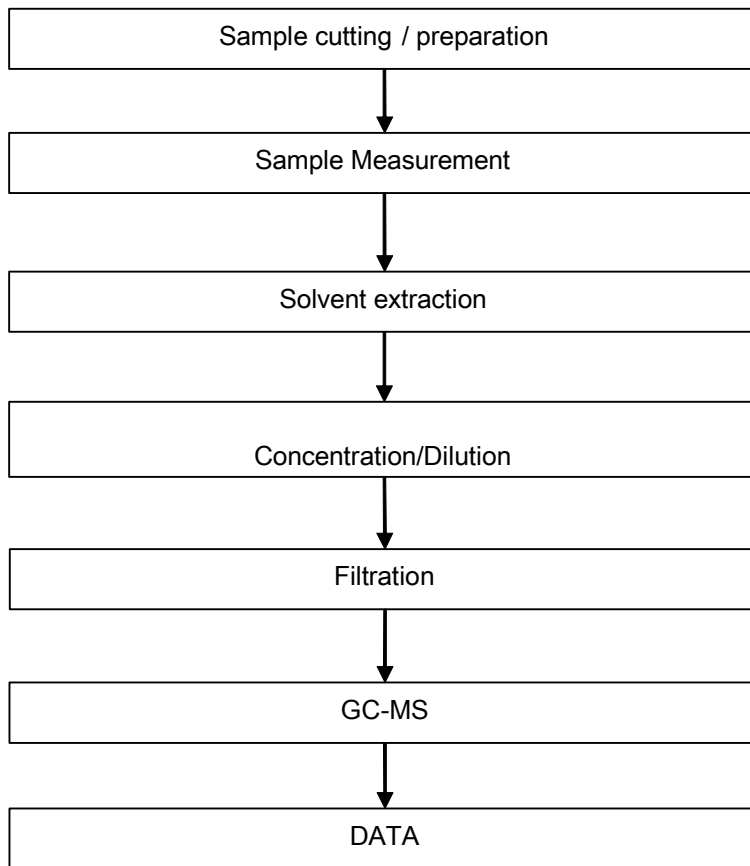


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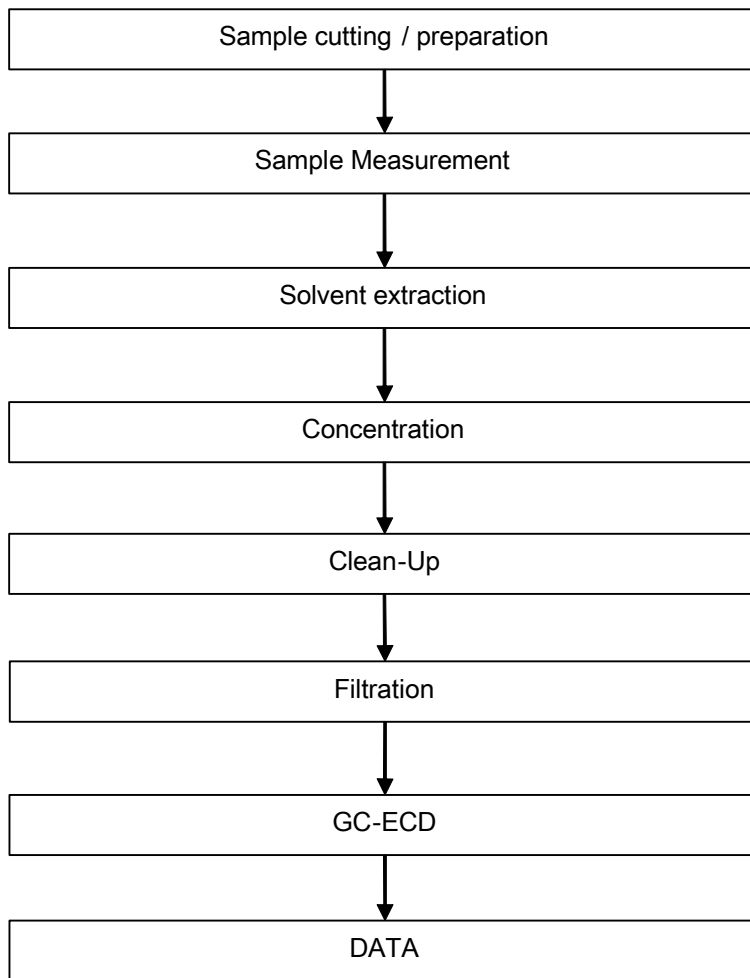
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HBCDD Testing Flow Chart



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SCCP Testing Flow Chart

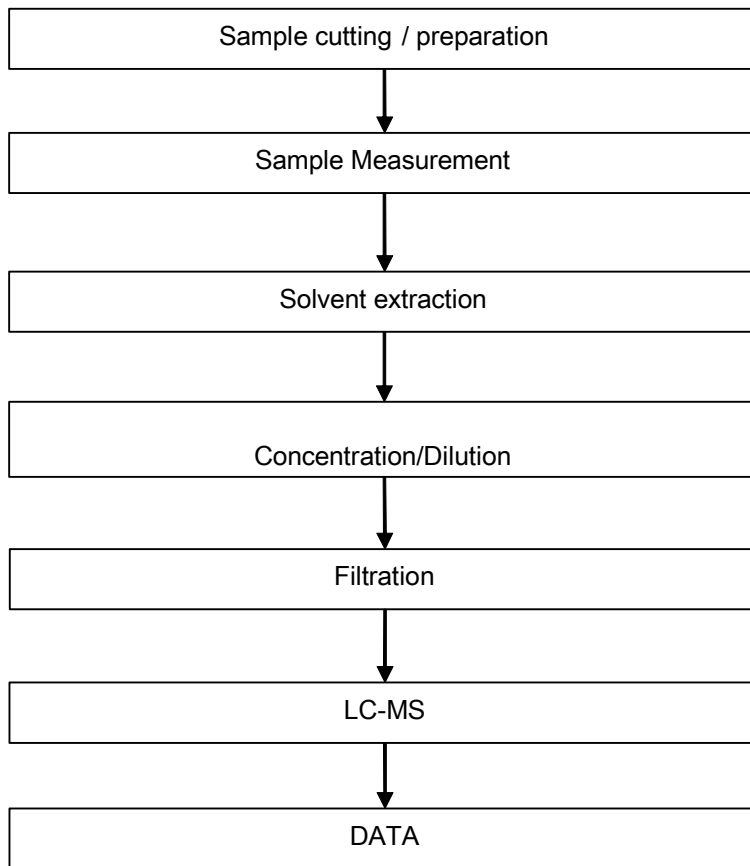


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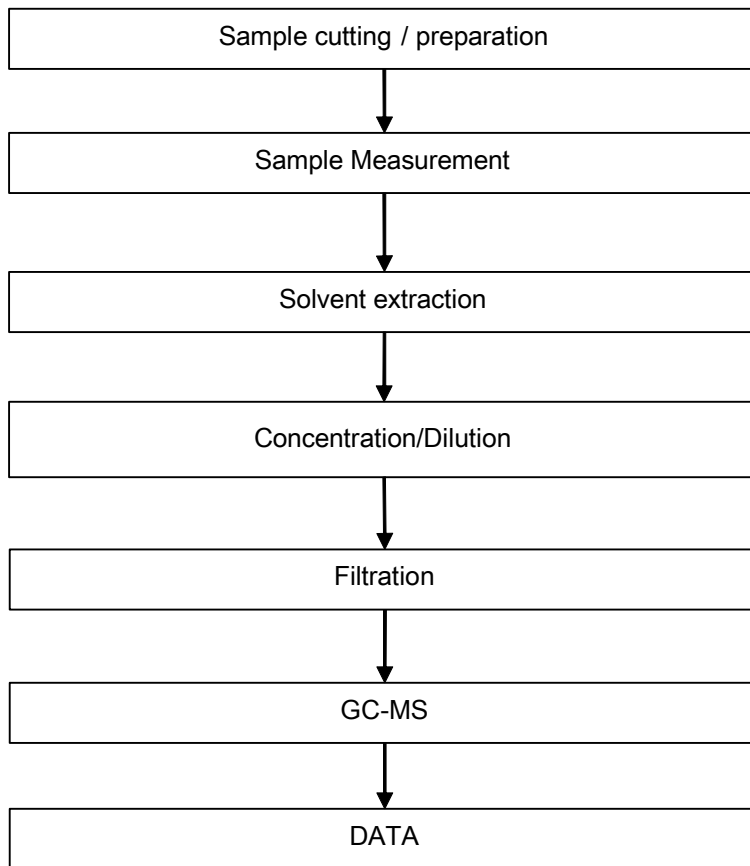
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PFOS Testing Flow Chart



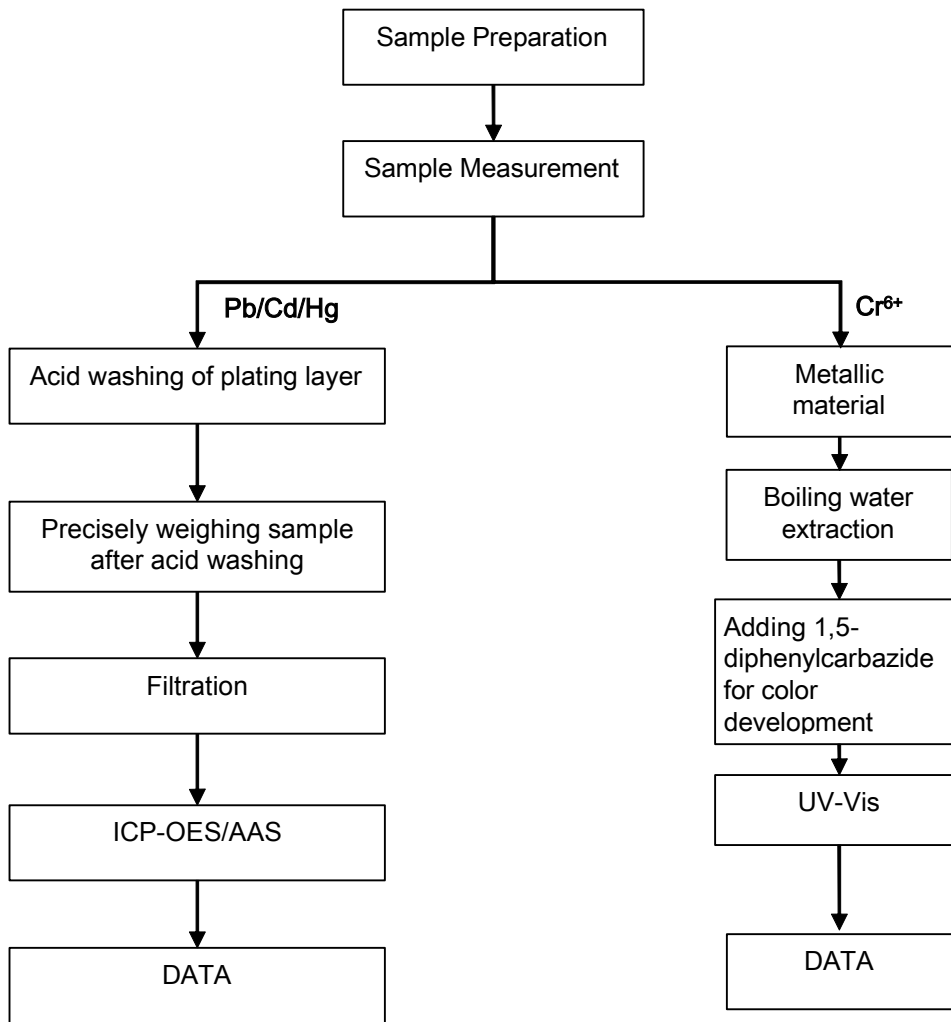
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Dimethyl Fumarate Testing Flow Chart



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Plating Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart



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