

Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 1 of 20

Client Name : ZHEJIANG XINAN CHEMICAL INDUSTRY GROUP CO.,LTD

Client Address : NO.1 XINAN BUILDING,JIANGBIN MIDDLE ROAD,JIANDE,ZHEJIANG,P.R.CHINA

Sample Name : rubber mixings of silicone rubbermethyl-vinyl

Model No. : XHG151-50

Client Ref. Info. : SEE REMARK

The above sample(s) and information were provided by the client.

SGS Job No. : CP22-023753 - GZ

Internal Reference No. : 15947821

Date of Sample Received : 06 May 2022

Testing Period : 06 May 2022 - 15 May 2022

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

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

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

Result Summary :

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
EN 71-3:2019+A1:2021 - Migration of Certain Elements (Category III: Scrapped-off toy material)	PASS
Halogen	See Results
Bisphenol-A	See Results
Entry 61 of Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Dimethyl fumarate(DMF)	PASS
AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives	See Results
Phthalate	See Results
Hexabromocyclododecane (HBCDD)	See Results



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Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 2 of 20

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

Allie Chen

Allie Chen
Approved Signatory



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Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 3 of 20

Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-087886.002	White translucent solid material

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 .

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	8	ND
Sum of PBBs	1000	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	1000	mg/kg	-	ND
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



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Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 4 of 20

Test Item(s)	Limit	Unit	MDL	002
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.
- (2) 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
- (3) 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.

EN 71-3:2019+A1:2021 - Migration of Certain Elements (Category III: Scrapped-off toy material)

Test Method : With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES.
 Chromium (VI) was analyzed by IC-UV/LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	002
Soluble Aluminum (Al)	28130	mg/kg	50	ND
Soluble Arsenic (As)	47	mg/kg	10	ND
Soluble Boron (B)	15000	mg/kg	50	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND
Soluble Lead (Pb)	23	mg/kg	10	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND
Soluble Selenium (Se)	460	mg/kg	10	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND
Soluble Tin (Sn)	180000	mg/kg	4.9	ND



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Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 5 of 20

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Soluble Organic Tin	12	mg/kg	-	ND
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.020	ND
Comment				PASS

Notes :

1. According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula: Soluble Chromium (III)= Soluble Total Chromium- Soluble Chromium (VI)
2. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

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>002</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Bisphenol-A

Test Method : SGS In-house method (GZTC CHEM-TOP-075-02, With reference to EPA 3550C:2007 & EPA 8321B:2007), analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Bisphenol-A	80-05-7	mg/kg	1.0	ND

Entry 61 of Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006- 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>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Dimethyl fumarate(DMF)	0.1	mg/kg	0.1	ND
Comment				PASS

AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)



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Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 6 of 20

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	002
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 4 PAHs (Phenanthrene, Pyrene, Anthracene, Fluoranthene)	-	mg/kg	-	ND
Sum of 15 PAHs	-	mg/kg	-	ND



Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 7 of 20

AfPS (German commission for Product Safety) : PAHs requirements

Parameter (mg/kg)	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children ^{a,b} up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Note:

^a A "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)

^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark: The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.



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Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 8 of 20

Test Item(s)	CAS NO.	Unit	MDL	002
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

Notes :

- (1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
- (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

Phthalate

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

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

Notes :

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- 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



Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 9 of 20

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) 2018/2005 to get more detail information

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

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 (EU) 2015/326 to get more detail information

Hexabromocyclododecane (HBCDD)

Test Method : SGS in house method (GZTC CHEM-TOP-073, with reference to EPA 3550C:2007), analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	mg/kg	10	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



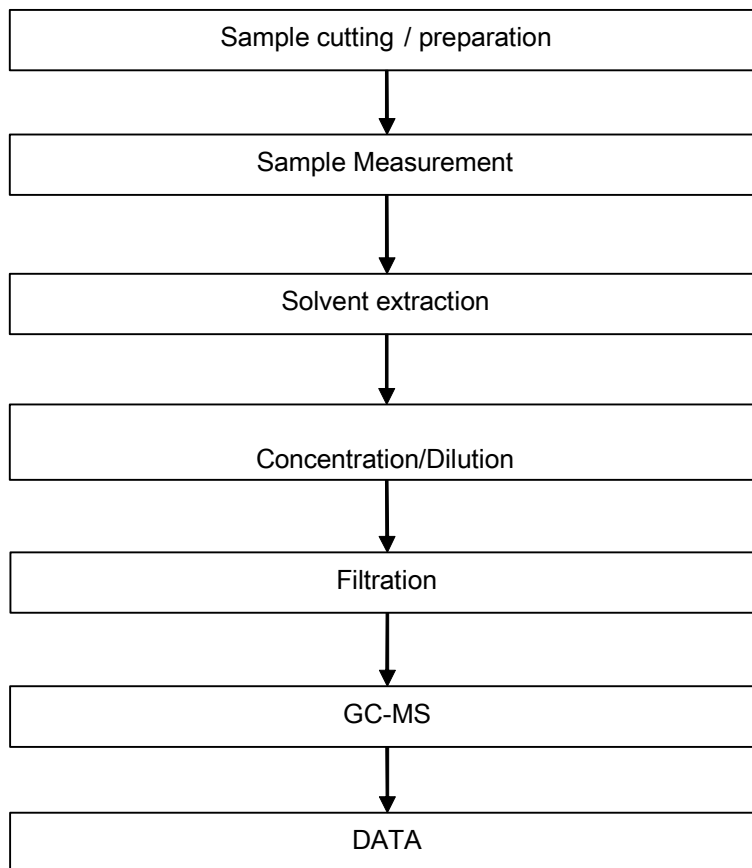
REMARK:

XHG-111, XHG-121/ A/ B/ C/ D/ E/ F/ G, XHG-131/ A/ B/ C/ D/ E/ F/ G/ Q, XHG-141/ A/ B/ C/ D/ E/ F/ G/ S, XHG-151/ A/ B/ C/ D/ E/ F/ G/ H/ J/ K/ L/ M/ N/ P/ Q/ R/ S/ T/ U/ W/ X/ Y/ Z, XHG-155, XHG-161/ A/ B/ C/ D/ E/ F/ G/ S/ U, XHG-171/ A/ B/ C/ D/ E/ F/ G/ H/ J/ K/ L/ M/ N/ P/ Q/ R/ S/ T/ U/ W/ X/ Y/ Z, XHG-181/ A/ B/ C/ D/ E/ F/ G/ Q, XHG-221, XHG-231, XHG-241, XHG-251, XHG-261, XHG-271/ M, XHG-281, XHG-331, XHG-341, XHG-351/ A/ B/ C/ D/ E/ F/ G, XHG-352/ A/ B/ C/ D/ E/ F/ G, XHG-361/ A/ B/ C/ D/ E/ F/ G/ S, XHG-362/ A/ B/ C/ D/ E/ F/ G, XHG-371/ A/ B/ C/ D/ E/ F/ G/ H/ J/ K/ L/ M/ N/ P/ Q/ R/ S/ T/ U/ W/ X/ Y/ Z, XHG-372/ A/ B/ C/ D/ E/ F/ G/ H/ J/ K/ L/ M/ N/ P/ Q/ R/ S/ T/ U/ W/ X/ Y/ Z, XHG-381/ A/ B/ C/ D/ E/ F/ G, XHG-382/ A/ B/ C/ D/ E/ F/ G, XHG-441, XHG-451, XHG-461, XHG-471, XHG-481, XHG-1031, XHG-1041, XHG-1051, XHG-1060/ 1061, XHG-1071, XHG-1081, XHG-2021, XHG-2031/ A/ E/ S/ T, XHG-2041/ A/ H, XHG-2051/ A/ B/ J/ T, XHG-2061/ A/ J/ T, XHG-2071/ A/ J/ T, XHG-2081/ T, XHG-3031, XHG-3041, XHG-3051/ 3052, XHG-3061/ 3062, XHG-3071/ A/ B/ C, XHG-3072/ A/ B/ C, XHG-3081/ A/ B/ C, XHG-3082/ A/ B/ C, XHG-3141, XHG-3151, XHG-3161, XHG-3171, XHG-3181, XHG-8021/ A/ B/ C/ D/ E/ F/ G, XHG-8031/ A/ B/ C/ D/ E/ F/ G/ T, XHG-8041/ A/ B/ C/ D/ E/ F/ G/ H, XHG-8051/ A/ B/ C/ D/ E/ F/ G, XHG-8061/ A/ B/ C/ D/ E/ F/ G/ H, XHG-8071/ A/ B/ C/ D/ E/ F/ G/ H, XHG-8081/ A/ B/ C/ D/ E/ F/ G, XHG-941L, XHG-951L, XHG-955, XHG-961, XHG-961L, XHG-971L, XHG151-10, XHG151-15, XHG151-20/ A/ B/ C/ D/ E/ F/ G, XHG151-25, XHG151-30/ A/ B/ C/ D/ E/ F/ G/ S/ W, XHG151-35, XHG151-40/ A/ B/ C/ D/ E/ F/ G/ H/ J/ K/ L/ M/ N/ P/ Q/ R/ S/ T/ U/ W/ X/ Y/ Z, XHG151-43, XHG151-50/ A/ B/ C/ D/ E/ F/ G/ H/ J/ K/ L/ M/ N/ P/ Q/ R/ S/ T/ U/ W/ X/ Y/ Z, XHG151-53, XHG151-60/ A/ B/ C/ D/ E/ F/ G/ H/ J/ K/ L/ M/ N/ P/ Q/ R/ S/ T/ U/ W/ X/ Y/ Z, XHG151-63, XHG151-70/ A/ B/ C/ D/ E/ F/ G/ H/ J/ K/ L/ M/ N/ P/ Q/ R/ S/ T/ U/ W/ X/ Y/ Z, XHG151-73, XHG151-80/ A/ B/ C/ D/ E/ F/ G/ S, XHG151-90/ A/ B, WRB2600, WRB2700, WRB2800, WRB3100, WRB3200, WRB3300, WRB-N2700, WRB-N2800, WRB-N3100, WRB-N3200, WRB-N3300, WRB171, TY2800, WRB-6T50/ 6C50/ 6D50/ 6E50, WRB-6T60/ 6C60/ 6D60/ 6E60/ 6E60D, WRB-6E61/ , 6E62, WRB-6T61/ 6T62, WRB-6T70/ 6C70/ 6D70/ 6E70/ 6E70D, WRB-Z130B, Z140/ B, Z150/ B, Z152, Z160/ B, Z170/ B, Z180, WRB-Z330/ Z340/ Z350/ Z360/ Z370/ Z380, WFS-3150/ 3160/ 3170, WFS-3220/ 3230/ 3240/ 3250/ 3270/ 3280, WFS-3330/ 3340/ 3350/ 3360/ 3370/ 3380, XHG-C151



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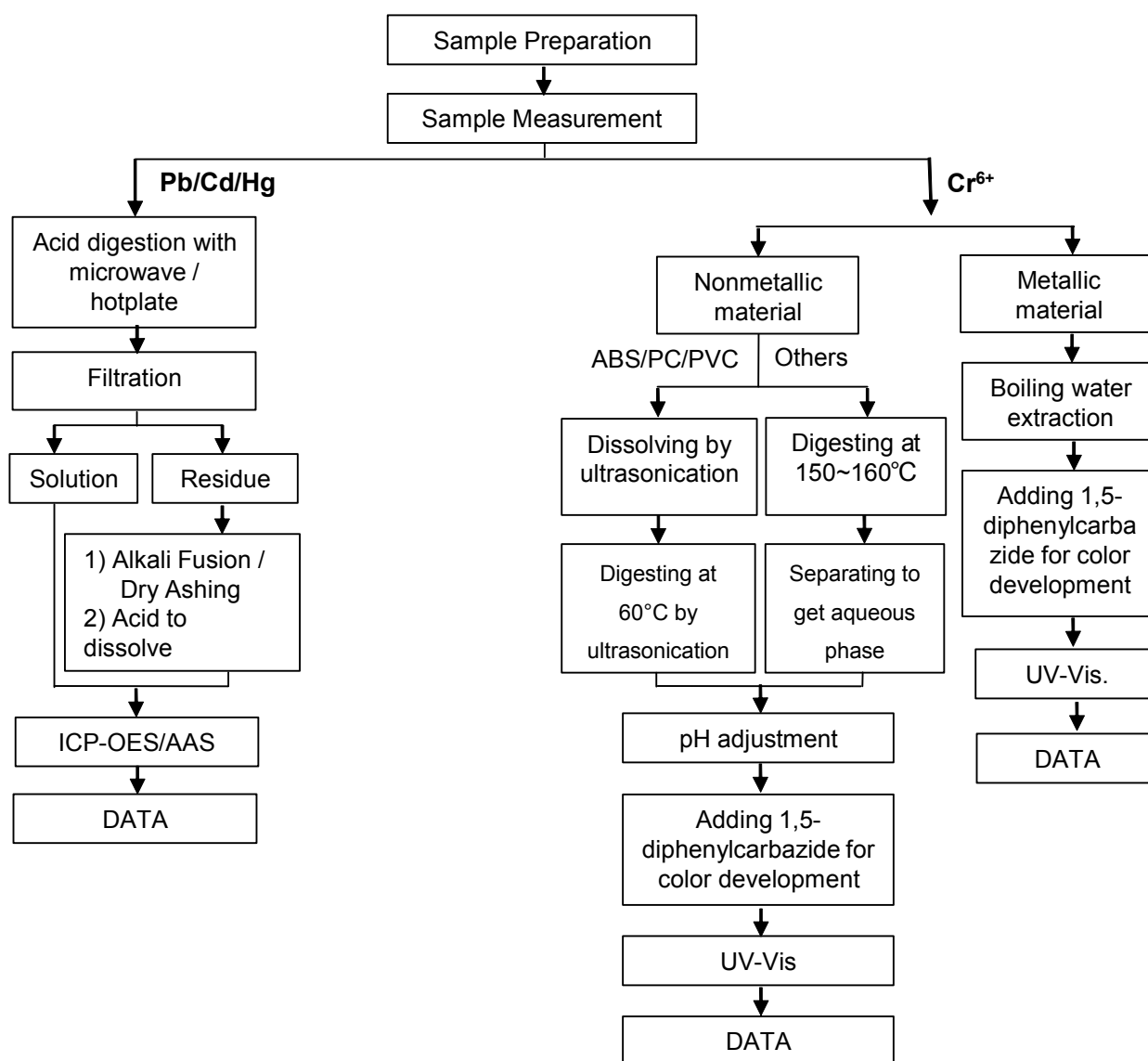
PBBs / PBDEs Testing Flow Chart



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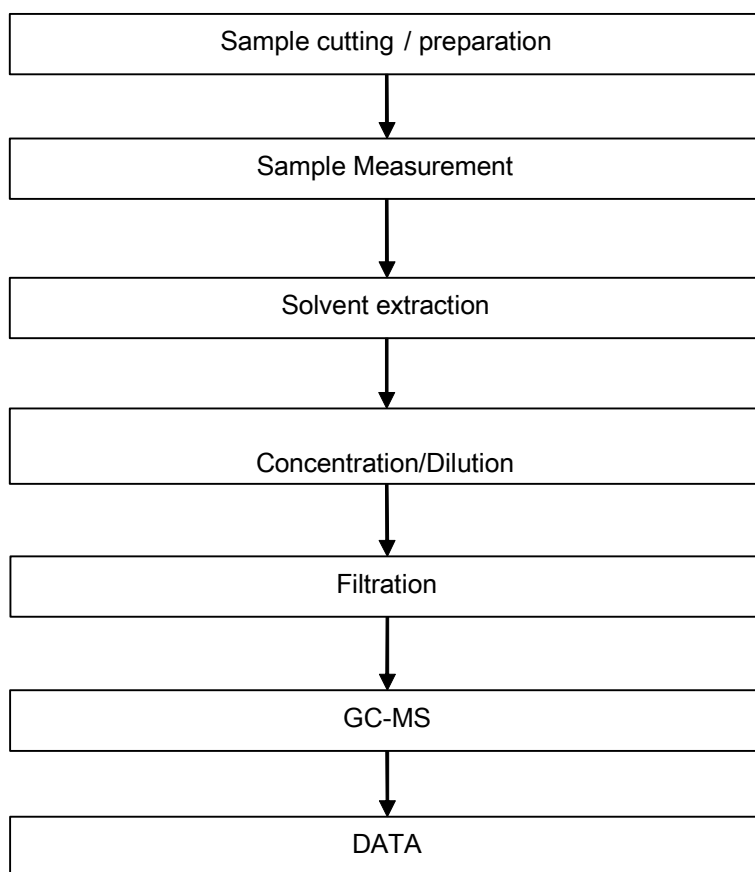
Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart

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



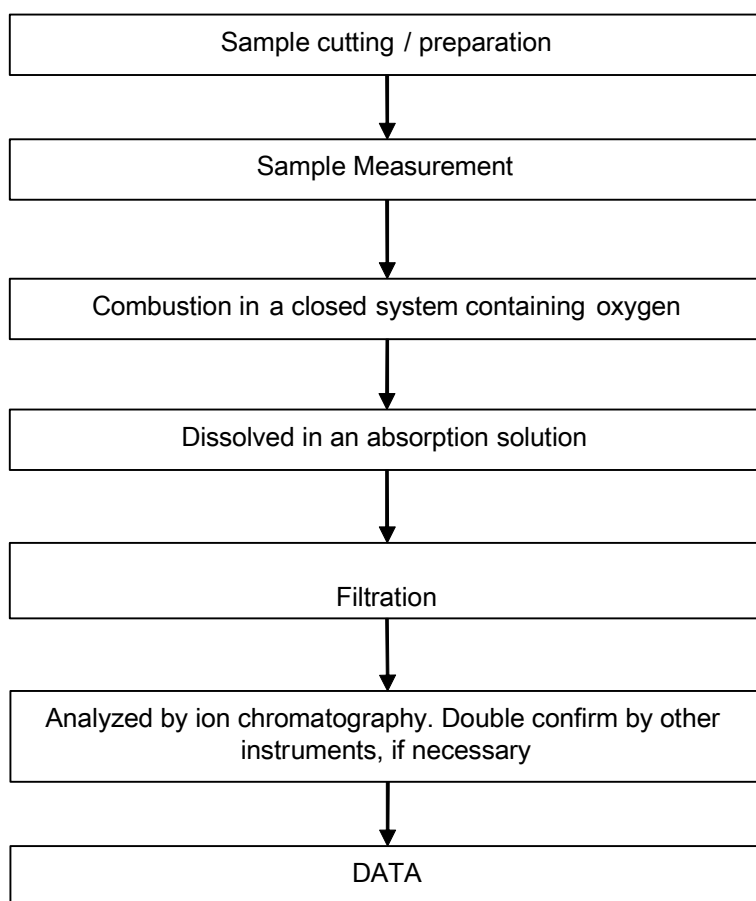
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Phthalates Testing Flow Chart



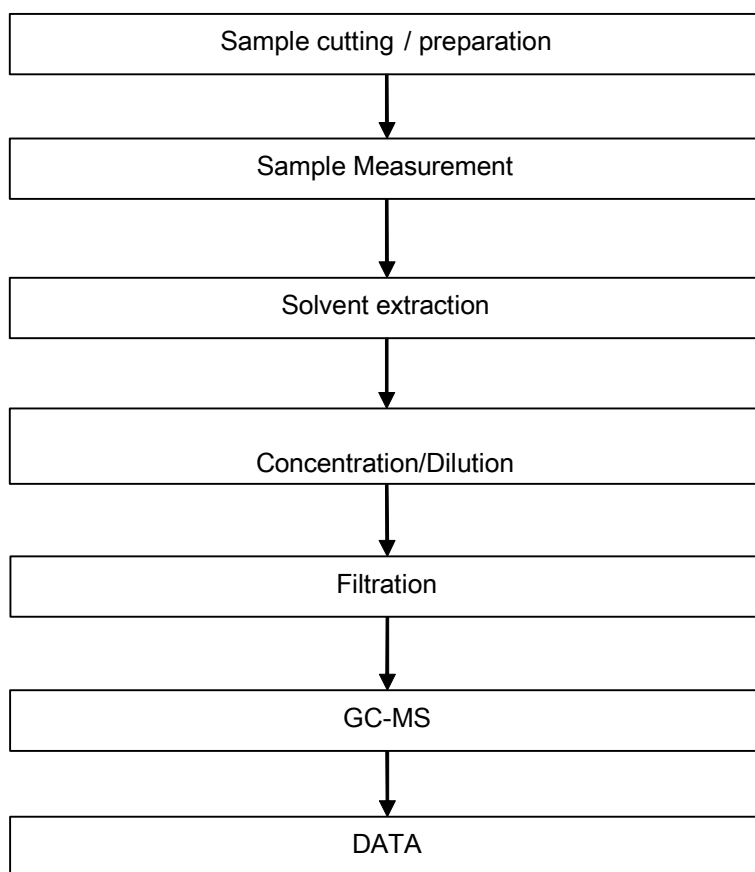
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Halogen Testing Flow Chart



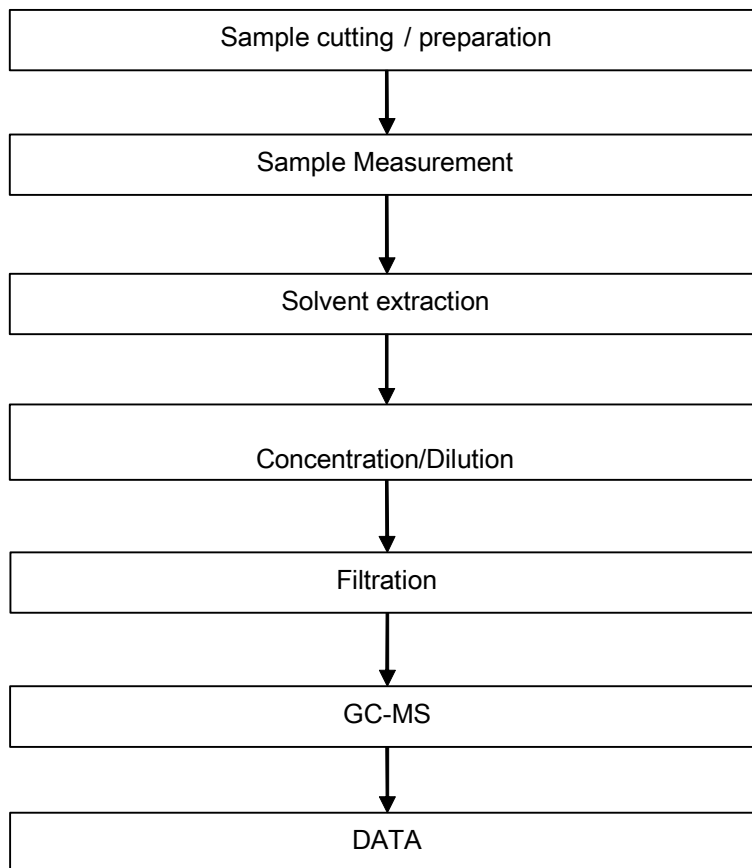
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HBCDD Testing Flow Chart



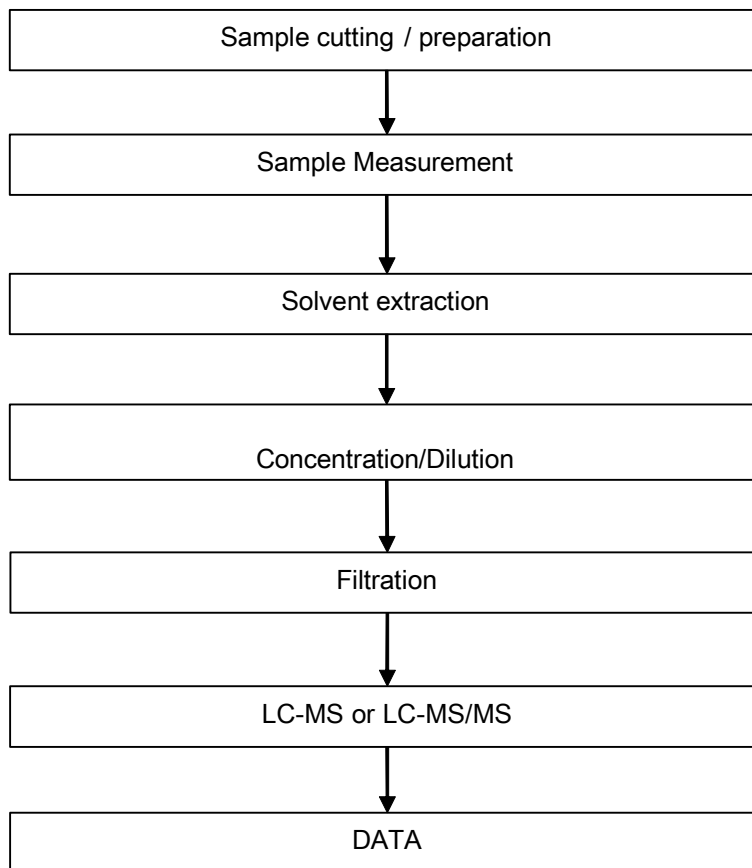
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PAHs Testing Flow Chart



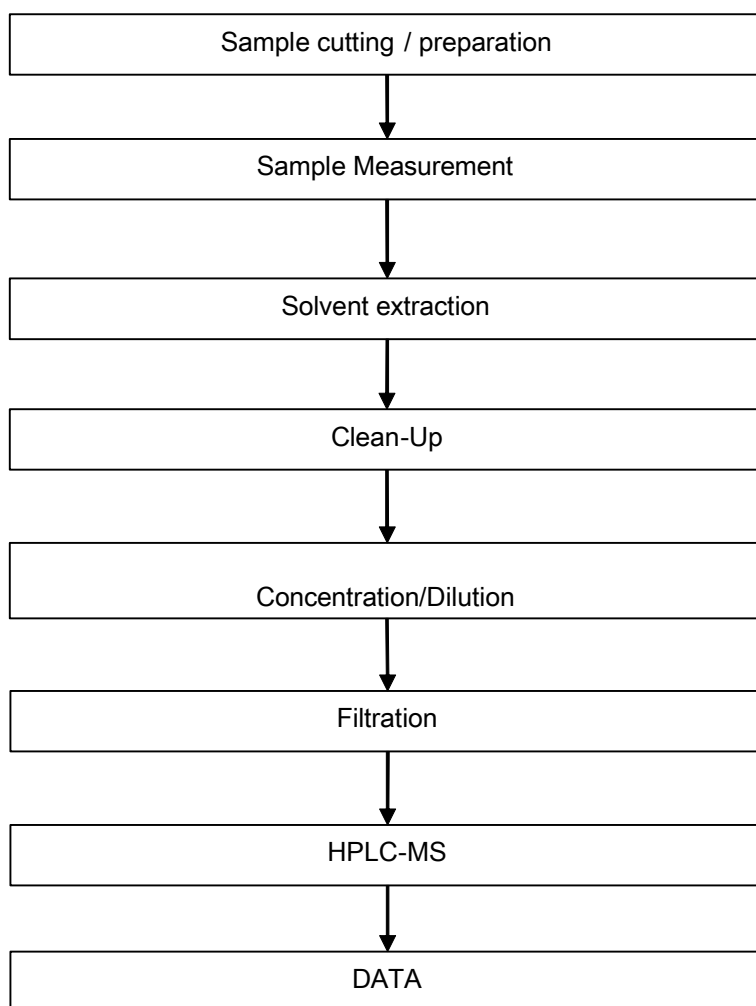
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PFOA / PFOS Testing Flow Chart



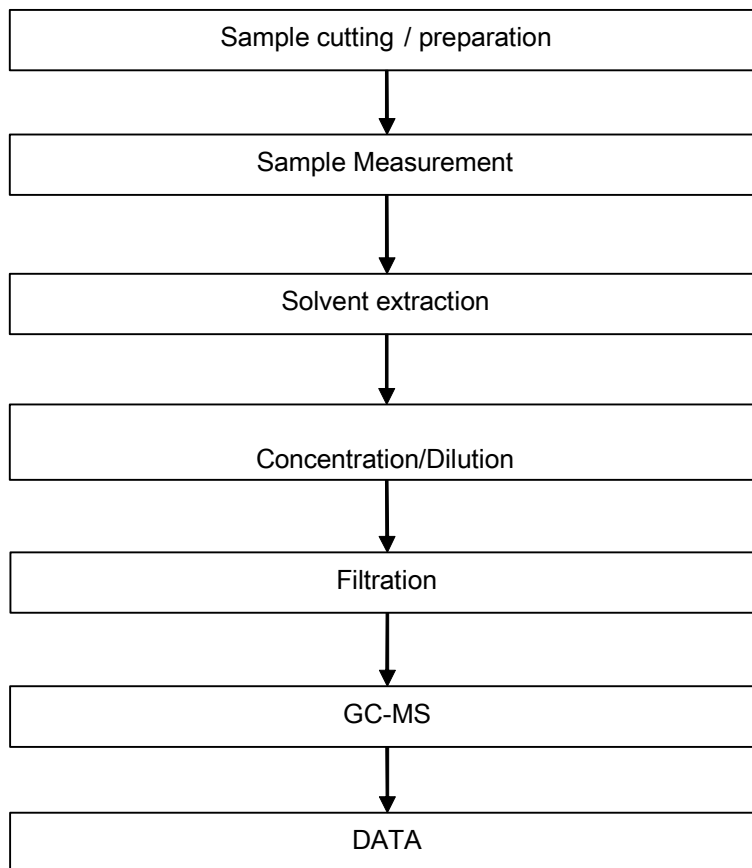
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BPA Testing Flow Chart



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Dimethyl Fumarate Testing Flow Chart



Test Report

No. CANEC2208788605

Date: 15 May 2022

Page 20 of 20

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



SGS-CTC (China) Technical Services Co., Ltd.
Guangzhou Branch Testing Center Chemical Laboratory.

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