

Test Report (SVHC)

No. SHAEC1721014805

Date: 09 Oct 2017

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KUNSHAN SIGMA MATERIAL TECHNOLOGY CO.,LTD.

NO.188, SONGNAN EAST ROAD, SHIPU, QIANDENG TOWN, KUNSHAN CITY, JIANGSU

The following sample(s) was/were submitted and identified on behalf of the clients as : SF (Au-Ag Alloy Bonding Wire)

SGS Job No. : SP17-033273 - SH

Date of Sample Received : 21 Sep 2017

Testing Period : 21 Sep 2017 - 27 Sep 2017

Test Requested : As requested by client, SVHC screening is performed according to:
(i) One hundred and seventy four (174) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jul 7, 2017 regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

Summary :

According to the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
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Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Marry Ma

Marry Ma

Approved Signatory



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Remark :

- (1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.

- (2) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

- (3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

- (4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:



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- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or
- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

(5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA17-210148.002	Yellow metal wire

Test Method :

SGS In-House method-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Notes :

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit. All RL are based on homogenous material
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) [△]CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
☆CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- (4) * The test result is based on the calculation of selected element(s) and to the worst-case scenario.
** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
For detail information, please refer to the SGS REACH website:
www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm
Calculated concentration of boric compounds are based on the total boron for liquid, powder and paste samples and water extractive boron for other samples by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum
RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- (5) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) $\geq 0.1\%$ (w/w).



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Dibutyl phthalate (DBP)	84-74-2	0.050
I	9	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) ^Δ	25637-99-4, 3194- 55-6	0.050
II	10	2,4-Dinitrotoluene	121-14-2	0.050
II	11	Acrylamide	79-06-1	0.050
II	12	Anthracene oil**	90640-80-5	0.050
II	13	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	14	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	15	Anthracene oil, anthracene paste, distrn. lights**	91995-17-4	0.050
II	16	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	17	Diisobutyl phthalate	84-69-5	0.050
II	18	Pitch, coal tar, high temp.**	65996-93-2	0.050
II	19	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	20	Trichloroethylene	79-01-6	0.050



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	21	2-Ethoxyethanol	110-80-5	0.050
IV	22	2-Methoxyethanol	109-86-4	0.050
V	23	1,2,3-trichloropropane	96-18-4	0.050
V	24	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	25	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	26	1-methyl-2-pyrrolidone	872-50-4	0.050
V	27	2-ethoxyethyl acetate	111-15-9	0.050
V	28	Hydrazine	7803-57-8, 302-01-2	0.050
VI	29	1,2-Dichloroethane	107-06-2	0.050
VI	30	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	31	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	32	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	33	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	34	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	35	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	36	N,N-dimethylacetamide	127-19-5	0.050
VI	37	Phenolphthalein	77-09-8	0.050
VII	38	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	39	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	40	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	41	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	42	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	43	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	44	Formamide	75-12-7	0.050
VII	45	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	46	TGIC (1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.050
VII	47	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	48	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	49	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	50	1,2-Diethoxyethane	629-14-1	0.050
VIII	51	1-Bromopropane	106-94-5	0.050
VIII	52	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	53	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	54	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	55	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	56	4-Aminoazobenzene	60-09-3	0.050
VIII	57	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	58	4-Nonylphenol, branched and linear	-	0.050



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VIII	59	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	60	Biphenyl-4-ylamine	92-67-1	0.050
VIII	61	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	62	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.050
VIII	63	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	64	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	65	Diethyl sulphate	64-67-5	0.050
VIII	66	Diisopentylphthalate	605-50-5	0.050
VIII	67	Dimethyl sulphate	77-78-1	0.050
VIII	68	Dinoseb	88-85-7	0.050
VIII	69	Furan	110-00-9	0.050
VIII	70	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	71	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	72	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	☆	0.050
VIII	73	Methoxyacetic acid	625-45-6	0.050
VIII	74	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	75	N,N-dimethylformamide	68-12-2	0.050
VIII	76	N-Methylacetamide	79-16-3	0.050
VIII	77	N-Pentyl-isopentylphthalate	776297-69-9	0.050



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	78	o-Aminoazotoluene	97-56-3	0.050
VIII	79	o-Toluidine	95-53-4	0.050
VIII	80	Pentacosfluorotridecanoic acid	72629-94-8	0.050
VIII	81	Tricosfluorododecanoic acid	307-55-1	0.050
IX	82	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	83	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.050
IX	84	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	85	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	86	Dihexyl phthalate	84-75-3	0.050
X	87	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	88	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	89	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	90	Trixylyl phosphate	25155-23-1	0.050
XI	91	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XII	92	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	93	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	94	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XII	95	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-diethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	96	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5,68648-93-1	0.050
XIII	97	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	98	1,3-propanesultone	1120-71-4	0.050
XIV	99	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	0.050
XIV	100	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	101	Nitrobenzene	98-95-3	0.050
XIV	102	Perfluorononanoic acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	103	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	104	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	105	4-Heptylphenol, branched and linear	-	0.050
XVI	106	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.050
XVI	107	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	108	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
I	109	Cobalt dichloride*	7646-79-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
I	110	Diarsenic pentaoxide*	1303-28-2	0.005
I	111	Diarsenic trioxide*	1327-53-3	0.005
I	112	Lead hydrogen arsenate*	7784-40-9	0.005
I	113	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	114	Triethyl arsenate*	15606-95-8	0.005
II	115	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	116	Lead chromate*	7758-97-6	0.005
II	117	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
III	118	Ammonium dichromate*	7789-09-5	0.005
III	119	Boric acid*	10043-35-3, 11113-50-1	0.005
III	120	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	121	Potassium chromate*	7789-00-6	0.005
III	122	Potassium dichromate*	7778-50-9	0.005
III	123	Sodium chromate*	7775-11-3	0.005
III	124	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
IV	125	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5 - 13530-68-2	0.005
IV	126	Chromium trioxide*	1333-82-0	0.005
IV	127	Cobalt(II) carbonate*	513-79-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	128	Cobalt(II) diacetate*	71-48-7	0.005
IV	129	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	130	Cobalt(II) sulphate*	10124-43-3	0.005
V	131	Strontium chromate*	7789-06-2	0.005
VI	132	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	133	Arsenic acid*	7778-39-4	0.005
VI	134	Calcium arsenate*	7778-44-1	0.005
VI	135	Dichromium tris(chromate) *	24613-89-6	0.005
VI	136	Lead diazide, Lead azide*	13424-46-9	0.005
VI	137	Lead dipicrate*	6477-64-1	0.005
VI	138	Lead styphnate*	15245-44-0	0.005
VI	139	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	140	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	141	Trilead diarsenate*	3687-31-8	0.005
VI	142	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	143	Diboron trioxide*	1303-86-2	0.005
VII	144	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VIII	145	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	146	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	147	Dioxobis(stearato)trilead*	12578-12-0	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	148	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	149	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	150	Lead cyanamidate*	20837-86-9	0.005
VIII	151	Lead dinitrate*	10099-74-8	0.005
VIII	152	Lead monoxide*	1317-36-8	0.005
VIII	153	Lead oxide sulfate*	12036-76-9	0.005
VIII	154	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	155	Lead titanium trioxide*	12060-00-3	0.005
VIII	156	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	157	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	158	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	159	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	160	Silicic acid, lead salt*	11120-22-2	0.005
VIII	161	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	162	Tetraethyllead*	78-00-2	0.005
VIII	163	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	164	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	165	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	166	Cadmium oxide*	1306-19-0	0.005
IX	167	Cadmium*	7440-43-9	0.005
X	168	Cadmium sulphide*	1306-23-6	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
X	169	Lead di(acetate)*	301-04-2	0.005
XI	170	Cadmium chloride*	10108-64-2	0.005
XI	171	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	172	Sodium peroxometaborate*	7632-04-4	0.005
XII	173	Cadmium fluoride*	7790-79-6	0.005
XII	174	Cadmium sulphate *	10124-36-4,31119-53 -6	0.005



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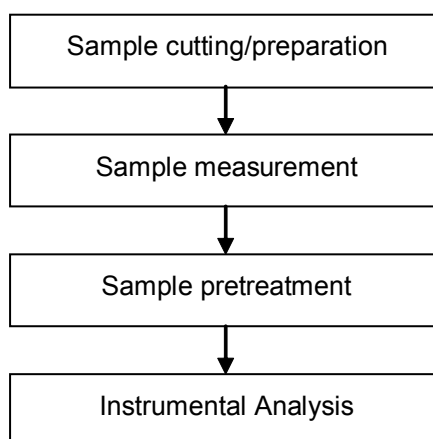
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ATTACHMENTS

SVHC Testing Flow Chart

- 1) Name of the person who made testing: Katie Huang/Yeshn Wu
- 2) Name of the person in charge of testing: Zirco Yu



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