

Test Report (SVHC)

No.: CANEC23000965803

Date: Apr 01, 2023

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Client Name: SHENZHEN SI SEMICONDUCTORS CO.,LTD.

Client Address: NO.3,BAOLONG 7TH ROAD,BAOLONG INDUSTRIAL PARK,LONGGANG,SHENZHEN

Sample Name: transistor (eco-friendly-high temp.solder/Mn-Matte/copper lead frame)

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

SGS Job No.: CP23-012183

Sample Receiving Date: Mar 17, 2023

Testing Period: Mar 17, 2023 ~ Mar 27, 2023

Test Requested: As requested by client, SVHC screening is performed according to:
 (i) Two hundred and thirty-three (233) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 17, 2023 regarding Regulation (EC) No 1907/2006 concerning the REACH.
 (ii) One (1) potential Substances of Very High Concern (SVHC) in the notification of WTO on Jun 1, 2021.
 (iii) Two (2) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Feb 17, 2023 regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

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

Summary:

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are > 0.1% (w/w) in the articles of the submitted sample. See Test Result ID 002.

See remark 2 for obligation under REACH

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

Jany Zhong

Jany Zhong
Approved Signatory

scan to see the report



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Guangzhou Branch

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The test results of SVHC over 0.1% (w/w) in the articles of the submitted sample summary

Test Result ID	Description	Substance Name	CAS No.	Concentration(%)
002	Black body	Lead	7439-92-1	1.363



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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. REACH obligation:

2.1 Concerning article(s):

Communication:

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.

Notification:

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).

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>

2.2 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.

2.3 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 its amendments, 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:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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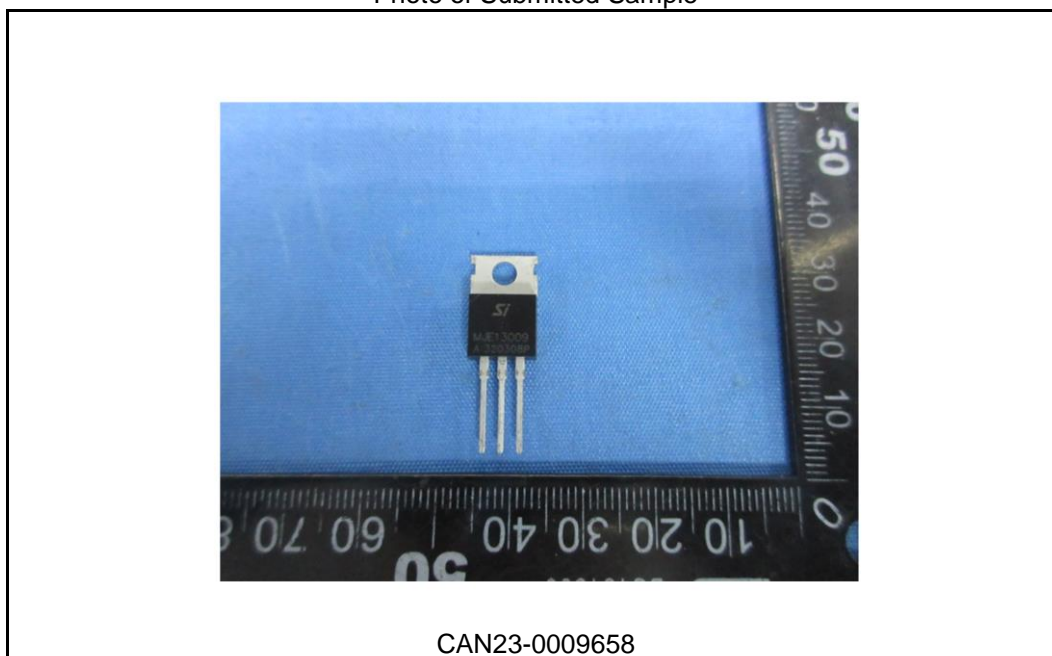
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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance 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

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

Test Sample:

Photo of Submitted Sample



CAN23-0009658

SGS authenticate the photo on original report only

Sample Description:

Test Part ID	Material Description	Test Part ID	Material Description
C1	Silvery metal pin	C2	Black body

Testing Group:



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Test Result ID	Description	Test Part ID	No. of SVHC Tested	SGS Sample ID
001	Silvery metal pin	C1	73	CAN23-0009658-0003.C001
002	Black body	C2	236	CAN23-0009658-0003.C002

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in Candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
VIII	Lead cyanamidate*	20837-86-9	NA^	0.005
VIII	Lead dinitrate*	10099-74-8	NA^	0.005
VIII	Lead monoxide*	1317-36-8	NA^	0.005
VIII	Lead oxide sulfate*	12036-76-9	NA^	0.005
VIII	Lead tetroxide (orange lead)*	1314-41-6	NA^	0.005
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	NA^	0.005
VIII	Tetralead trioxide sulphate*	12202-17-4	NA^	0.005
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	NA^	0.005
X	Lead di(acetate)*	301-04-2	NA^	0.005
XIX	Lead	7439-92-1	1.363	0.005
-	Other tested SVHC in Candidate list	-	ND	-

Test Results: (Potential SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
/	All tested Potential SVHC	-	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 (Test data will be shown if it \geq RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * 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.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected 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), fluorine RL=0.050%.
- (4) § 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).
- (5) Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.
- (6) In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.
- (7) / = Potential SVHC
- (8) NA^ = Upon further test verification on the specific detected element(s) of SVHC and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even



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though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.

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.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050	0003.C002
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	0003.C002
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	0003.C002
I	4	Anthracene	120-12-7	0.050	0003.C002
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	0003.C002
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	0003.C002
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	0003.C002
I	8	Cobalt dichloride*	7646-79-9	0.005	0003.C001, 0003.C002
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	0003.C001, 0003.C002
I	10	Diarsenic trioxide*	1327-53-3	0.005	0003.C001, 0003.C002
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	0003.C002
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050	0003.C002
I	13	Lead hydrogen arsenate*	7784-40-9	0.005	0003.C001, 0003.C002
I	14	Sodium dichromate*	10588-01-9 / 7789-12-0	0.005	0003.C001, 0003.C002
I	15	Triethyl arsenate*	15606-95-8	0.005	0003.C001, 0003.C002
II	16	2,4-Dinitrotoluene	121-14-2	0.050	0003.C002
II	17	Acrylamide	79-06-1	0.050	0003.C002
II	18	Anthracene oil**	90640-80-5	0.050	0003.C002
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	0003.C002
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	0003.C002
II	21	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050	0003.C002
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	0003.C002
II	23	Diisobutyl phthalate	84-69-5	0.050	0003.C002
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	0003.C001, 0003.C002
II	25	Lead chromate*	7758-97-6	0.005	0003.C001, 0003.C002
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	0003.C001, 0003.C002
II	27	Pitch, coal tar, high temp. **	65996-93-2	0.050	0003.C002
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	0003.C002



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III	29	Ammonium dichromate*	7789-09-5	0.005	0003.C001, 0003.C002
III	30	Boric acid*	-	0.005	0003.C001, 0003.C002
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005	0003.C001, 0003.C002
III	32	Potassium chromate*	7789-00-6	0.005	0003.C001, 0003.C002
III	33	Potassium dichromate*	7778-50-9	0.005	0003.C001, 0003.C002
III	34	Sodium chromate*	7775-11-3	0.005	0003.C001, 0003.C002
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	0003.C001, 0003.C002
III	36	Trichloroethylene	79-01-6	0.050	0003.C002
IV	37	2-Ethoxyethanol	110-80-5	0.050	0003.C002
IV	38	2-Methoxyethanol	109-86-4	0.050	0003.C002
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005	0003.C001, 0003.C002
IV	40	Chromium trioxide*	1333-82-0	0.005	0003.C001, 0003.C002
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	0003.C001, 0003.C002
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	0003.C001, 0003.C002
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	0003.C001, 0003.C002
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	0003.C001, 0003.C002
V	45	1,2,3-trichloropropane	96-18-4	0.050	0003.C002
V	46	1,2-Benzenedicarboxylic acid, di- C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	0003.C002
V	47	1,2-Benzenedicarboxylic acid, di- C7-11-branched and linear alkyl esters	68515-42-4	0.050	0003.C002
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	0003.C002
V	49	2-ethoxyethyl acetate	111-15-9	0.050	0003.C002
V	50	Hydrazine	302-01-2 /7803-57-8	0.050	0003.C002
V	51	strontium chromate*	7789-06-2	0.005	0003.C001, 0003.C002
VI	52	1,2-Dichloroethane	107-06-2	0.050	0003.C002
VI	53	2,2'-dichloro-4,4'- methylenedianiline	101-14-4	0.050	0003.C002
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	0003.C002
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	0003.C002



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005	0003.C001, 0003.C002
VI	57	Arsenic acid*	7778-39-4	0.005	0003.C001, 0003.C002
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	0003.C002
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	0003.C002
VI	60	Calcium arsenate*	7778-44-1	0.005	0003.C001, 0003.C002
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005	0003.C001, 0003.C002
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	0003.C002
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	0003.C001, 0003.C002
VI	64	Lead dipicrate*	6477-64-1	0.005	0003.C001, 0003.C002
VI	65	Lead styphnate*	15245-44-0	0.005	0003.C001, 0003.C002
VI	66	N,N-dimethylacetamide	127-19-5	0.050	0003.C002
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	0003.C001, 0003.C002
VI	68	Phenolphthalein	77-09-8	0.050	0003.C002
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	0003.C001, 0003.C002
VI	70	Trilead diarsenate*	3687-31-8	0.005	0003.C001, 0003.C002
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005	0003.C001, 0003.C002
VII	72	[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	0003.C002
VII	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050	0003.C002
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	0003.C002
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	0003.C002
VII	76	4,4'-bis(dimethylamino)benzophenone (Michler's Ketone)	90-94-8	0.050	0003.C002
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050	0003.C002
VII	78	Diboron trioxide*	1303-86-2	0.005	0003.C001, 0003.C002
VII	79	Formamide	75-12-7	0.050	0003.C002



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VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	0003.C001, 0003.C002
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050	0003.C002
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050	0003.C002
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	0003.C002
VII	84	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	0003.C002
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	0003.C001, 0003.C002
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	0003.C002
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	0003.C002
VIII	88	1-Bromopropane	106-94-5	0.050	0003.C002
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	0003.C002
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	0003.C002
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	0003.C002
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	0003.C002
VIII	93	4-Aminoazobenzene	60-09-3	0.050	0003.C002
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	0003.C002
VIII	95	4-Nonylphenol, branched and linear	-	0.050	0003.C002
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	0003.C002
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	0003.C001, 0003.C002
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	0003.C002
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050	0003.C002
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050	0003.C002
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	0003.C002
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	0003.C002
VIII	103	Diethyl sulphate	64-67-5	0.050	0003.C002
VIII	104	Diisopentylphthalate	605-50-5	0.050	0003.C002
VIII	105	Dimethyl sulphate	77-78-1	0.050	0003.C002
VIII	106	Dinoseb	88-85-7	0.050	0003.C002



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VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	0003.C001, 0003.C002
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	0003.C001, 0003.C002
VIII	109	Furan	110-00-9	0.050	0003.C002
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050	0003.C002
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050	0003.C002
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050	0003.C002
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	0003.C001, 0003.C002
VIII	114	Lead cyanamidate*	20837-86-9	0.005	0003.C001, 0003.C002
VIII	115	Lead dinitrate*	10099-74-8	0.005	0003.C001, 0003.C002
VIII	116	Lead monoxide*	1317-36-8	0.005	0003.C001, 0003.C002
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	0003.C001, 0003.C002
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	0003.C001, 0003.C002
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	0003.C001, 0003.C002
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	0003.C001, 0003.C002
VIII	121	Methoxyacetic acid	625-45-6	0.050	0003.C002
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	0003.C002
VIII	123	N,N-Dimethylformamide	68-12-2	0.050	0003.C002
VIII	124	N-Methylacetamide	79-16-3	0.050	0003.C002
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	0003.C002
VIII	126	o-Aminoazotoluene	97-56-3	0.050	0003.C002
VIII	127	o-Toluidine	95-53-4	0.050	0003.C002
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050	0003.C002
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	0003.C001, 0003.C002
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	0003.C001, 0003.C002
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	0003.C001, 0003.C002
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	0003.C001, 0003.C002
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	0003.C001, 0003.C002



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VIII	134	Tetraethyllead*	78-00-2	0.005	0003.C001, 0003.C002
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	0003.C001, 0003.C002
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050	0003.C002
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	0003.C001, 0003.C002
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	0003.C001, 0003.C002
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	0003.C002
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	0003.C002
IX	141	Cadmium oxide*	1306-19-0	0.005	0003.C001, 0003.C002
IX	142	Cadmium	7440-43-9	0.005	0003.C001, 0003.C002
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	0003.C002
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	0003.C002
X	145	Cadmium sulphide*	1306-23-6	0.005	0003.C001, 0003.C002
X	146	Dihexyl phthalate	84-75-3	0.050	0003.C002
X	147	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	0003.C002
X	148	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	0003.C002
X	149	Imidazolidine-2-thione; (2- imidazoline-2-thiol)	96-45-7	0.050	0003.C002
X	150	Lead di(acetate)*	301-04-2	0.005	0003.C001, 0003.C002
X	151	Triethyl phosphate	25155-23-1	0.050	0003.C002
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	0003.C002
XI	153	Cadmium chloride*	10108-64-2	0.005	0003.C001, 0003.C002
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	0003.C001, 0003.C002
XI	155	Sodium peroxometaborate*	7632-04-4	0.005	0003.C001, 0003.C002
XII	156	2-(2H-benzotriazol-2-yl)-4,6- diterphenylphenol (UV-328)	25973-55-1	0.050	0003.C002



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XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	0003.C002
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050	0003.C002
XII	159	Cadmium fluoride*	7790-79-6	0.005	0003.C001, 0003.C002
XII	160	Cadmium sulphate*	10124-36-4 / 31119-53-6	0.005	0003.C001, 0003.C002
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-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	0003.C002
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050	0003.C002
XIII	163	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	0003.C002
XIV	164	1,3-propanesultone	1120-71-4	0.050	0003.C002
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	0.050	0003.C002
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050	0003.C002
XIV	167	Nitrobenzene	98-95-3	0.050	0003.C002
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050	0003.C002
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	0003.C002
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	0003.C002
XVI	171	4-Heptylphenol, branched and linear	-	0.050	0003.C002
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050	0003.C002
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	0003.C002



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XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	0003.C002
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050	0003.C002
XVIII	176	Benz[a]anthracene	56-55-3	0.050	0003.C002
XVIII	177	Cadmium nitrate*	10325-94-7	0.005	0003.C001, 0003.C002
XVIII	178	Cadmium carbonate*	513-78-0	0.005	0003.C001, 0003.C002
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	0003.C001, 0003.C002
XVIII	180	Chrysene	218-01-9	0.050	0003.C002
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	0003.C002
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050	0003.C002
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	0003.C002
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	0003.C002
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	0003.C002
XIX	186	Disodium octaborate*	12008-41-2	0.005	0003.C001, 0003.C002
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	0003.C002
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050	0003.C002
XIX	189	Lead	7439-92-1	0.005	0003.C001, 0003.C002
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	0003.C002
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050	0003.C002
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050	0003.C002
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050	0003.C002
XX	194	Benzo[k]fluoranthene	207-08-9	0.050	0003.C002
XX	195	Fluoranthene	206-44-0	0.050	0003.C002
XX	196	Phenanthrene	85-01-8	0.050	0003.C002
XX	197	Pyrene	129-00-0	0.050	0003.C002



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050	0003.C002
XXI	199	2-methoxyethyl acetate	110-49-6	0.050	0003.C002
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050	0003.C002
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050	0003.C002
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050	0003.C002
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050	0003.C002
XXII	204	Diisohexyl phthalate	71850-09-4	0.050	0003.C002
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050	0003.C002
XXIII	206	1-vinylimidazole	1072-63-5	0.050	0003.C002
XXIII	207	2-methylimidazole	693-98-1	0.050	0003.C002
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050	0003.C002
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050	0003.C002
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050	0003.C002
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050	0003.C002
XXV	212	1,4-Dioxane	123-91-1	0.050	0003.C002
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050	0003.C002
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050	0003.C002
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050	0003.C002
XXV	216	Glutaral	111-30-8	0.050	0003.C002
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with	-	0.050	0003.C002



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
		carbon chain lengths within the range from C14 to C17]			
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005	0003.C001, 0003.C002
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050	0003.C002
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050	0003.C002
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050	0003.C002
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050	0003.C002
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050	0003.C002
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050	0003.C002
XXVIII	225	1,1'-[ethane-1,2-diylbisoxyl]bis[2,4,6-tribromobenzene]	37853-59-1	0.050	0003.C002
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050	0003.C002
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050	0003.C002
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005	0003.C001, 0003.C002
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	26040-51-7	0.050	0003.C002
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050	0003.C002
XXVIII	231	Melamine	108-78-1	0.050	0003.C002
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050	0003.C002
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050	0003.C002
/	234	bis(4-chlorophenyl) sulphone	80-07-9	0.050	0003.C002
/	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050	0003.C002
/	236	Resorcinol	108-46-3	0.050	0003.C002



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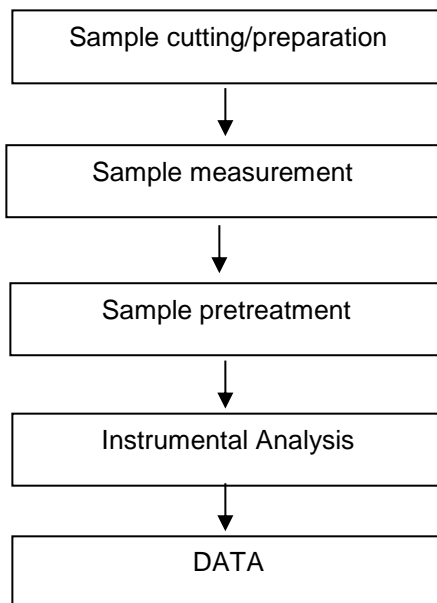
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ATTACHMENTS

SVHC Testing Flow Chart



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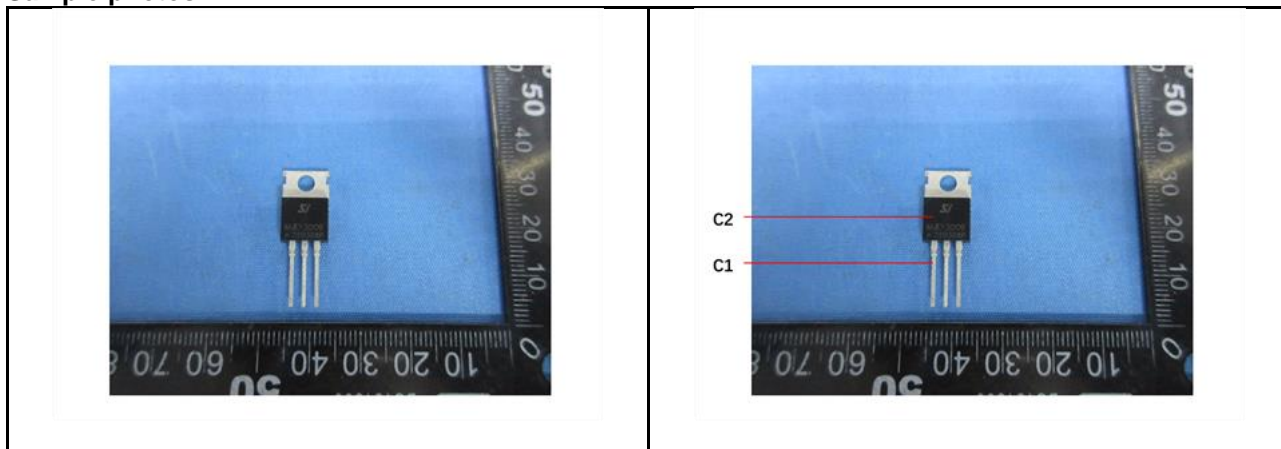
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Sample photos:



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