

Test Report (SVHC)	No.:	SHAPH24013272215	Date:	Jul 25, 2024	Page 1 of 15			
	Client Name: JIANGSU XINSHUN MICROELECTRONICS CO.,LTD Client Address: NO.78 CHANGSHAN RD.,JIANGYIN CITY,JIANGSU PRO.,CHINA							
Sample Name: The above sample		ne chip for using three layer mation were provided by the		niconductor material				
SGS Job No.: Sample Receiving		HIN2406004632PL08 un 18, 2024						
Testing Period:		Jun 18, 2024 ~ Jun 26, 2024						
Test Requested:	() E F () 0 () C () 1 () ()	is requested by client, SVH0 i) Two hundred and forty (2- bubstances of Very High Con- suropean Chemicals Agency regulation (EC) No 1907/200 ii) Two (2) substances in the f Very High Concern (SVH0 ECHA) on and before Mar 1 oncerning the REACH. iii) One (1) potential Substan otification of WTO on Jun 1 iv) Six (6) potential Substan ist published by European 0 EC) No 1907/2006 concerni	40) substance for (SVHC (ECHA) on Public Conse published b 2024 regard notes of Very 2021. ces of Very F Chemicals Ag	es in the Candidate List of) for authorization publish and before Jan 23, 2024 g the REACH. sultation List of potential S by European Chemicals A ding Regulation (EC) No High Concern (SVHC) in digh Concern (SVHC) in ency (ECHA) regarding F	of ned by regarding Substances Agency 1907/2006 the the Intention			
Test Method(s):	F	Please refer to next page(s).						
Test Result(s):	F	lease refer to next page(s).						

Summary:

According to the specified scope and evaluation screening, the test results of in the submitted sample.	Pass
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Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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Mei Shen 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. 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:

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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).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

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

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 -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:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Color silicon wafer	002	SHA24-0132722- 0001.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: (Potential SVHC)

Batch	Substance Name	CAS No.	001 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



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Appendix Full list of tested SVHC:

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Batch	No.	Substance Name	CAS No.	RL (%)
	1	-Diaminodiphenylmethane(MDA)	101-77-9	0.050
Ι	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
Ι	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
	4	Anthracene	120-12-7	0.050
	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
	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
l	11	Dibutyl phthalate (DBP)	84-74-2	0.050
Ι	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified -HBCDD, HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
Ι	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
	15	Triethyl arsenate*	15606-95-8	0.005
	16	2,4-Dinitrotoluene	121-14-2	0.050
	17	Acrylamide	79-06-1	0.050
	18	Anthracene oil**	90640-80-5	0.050
	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
Ш	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	21	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
11	25	Lead chromate*	7758-97-6	0.005



Batch	No.	Substance Name	CAS No.	RL (%)
	33	Potassium dichromate*	7778-50-9	0.005
	34	Sodium chromate*	7775-11-3	0.005
	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and	13530-68-2	0.005
IV	39	dichromic acid, Dichromic acid*	/7738-94-5	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-	71888-89-6	0.050
v		branched alkyl esters, C7-rich	11000 00 0	0.000
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-	68515-42-4	0.050
		branched and linear alkyl esters		
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-	2580-56-5	0.050

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]	Batch	No.		Substance Name		CAS No.	RL (%	6)





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Γ	Batch	No.	Substance Name		CAS No.	RL (%)
	VIII	101	Diazene-1,2-dicarboxamide (C,C'- azodi(formamide))		123-77-3	0.050
	VIII	102	Dibutyltin dichloride (DBTC)		683-18-1	0.050
	VIII	103	Diethyl sulphate		64-67-5	0.050
	VIII	104	Diisopentylphthalate		605-50-5	0.050
	VIII	105	Dimethyl sulphate		77-78-1	0.050
	VIII	106	Dinoseb		88-85-7	0.050
	VIII	107	Dioxobis(stearato)trilead*		12578-12-0	0.005
	VIII	108	Fatty acids, C16-18, lead salts*		91031-62-8	0.005
	VIII					

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Batch	No.	Substance Name	CAS No.	RL (%)
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
х	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
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
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa- 3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
·		Reaction mass of 2-ethylhexyl 10-ethyl-4.4-		

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XII

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Reaction mass of 2-ethylhexyl 10-ethyl-4,4dioctyl-7-oxo-8-oxa-3,5-dithia-4stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4octyl-7-oxo-8-oxa-3,5-dithia-4stannatetradecanoate (reaction mass of



t Repor SVHC)	ť	No.: SHAPH24013272215 Date:	Jul 25, 2024	Page 10 of 15
Batch	No.	Substance Name	CAS No.	RL (%)
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec- butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its		

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Batch	No.	Substance Name	CAS No.	RL (%)
XX	197	Pyrene	129-00-0	0.050
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
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) - nonylphenol, branched and linear (4-NP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	119313-12-1	0.050
XXII	203	Tm0 g0 G[(0.0)4(5)-153.		

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	Batch	No.		Substance Name		CAS No.	RL (%)	
	/	249		Hexamethyldisiloxane		107-46-0	0.050	

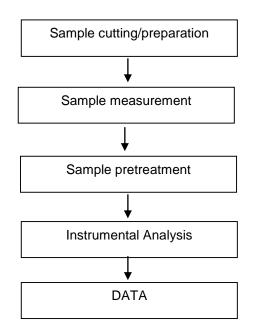


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Test Report (SVHC) ATTACHMENTS

Testing Flow Chart







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Sample photos:



SGS authenticate the photo on original report only *** End of Report ***