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Client Name: CSMC TECHNOLOGIES FAB2 CO.,LTD

Client Address: 14 LIANGXI ROAD, WUXI, JIANGSU 214061, CHINA

Sample Name: 6 IN WAFER

Model No.: MEMS

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

SGS Job No.: SP22-024577 Sample Receiving Date: Oct 27, 2022

Testing Period: Oct 27, 2022 - Nov 02, 2022

Test Requested: As requested by client, SVHC screening is performed according to:

(i) Two hundred and twenty-four (224) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 10, 2022 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Nine (9) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Sep 2, 2022 regarding Regulation (EC) No 1907/2006

concerning the REACH.

(iii) One (1) potential Substances of Very High Concern (SVHC) in the

notification of WTO on Jun 1, 2021.

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

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

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are 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.

Sue Sheng

Approved Signatory





### 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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(a



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

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in Candidate list	-	ND	1

**Test Results: (Potential SVHC)** 

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All tested Potential SVHC	-	ND	-

Notes:



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Appendix Full list of tested SVHC:

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Batch	No.	Substance Name	CAS No.	RL (%)
III	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 dichromic acid, Dichromic acid*	-	0.005
1\/	40	•	•	•



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Batch	No.	Substance Name	CAS No.	RL (%)
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
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine- 2,4,6(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	, -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	-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	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3- oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis- cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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VIII

VIII

VIII

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VIII

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Batch No. Substance Name CAS No. RL (%) VIII Dibutyltin dichloride (DBTC) 683-18-1 0.050 102 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\* 0.005 91031-62-8 VIII 109 Furan 110-00-9 0.050 VIII 110 Henicosafluoroundecanoic acid 2058-94-8 0.050 VIII 111 Heptacosafluorotetradecanoic acid 376-06-7 0.050 Hexahydromethylphthalic anhydride. Hexahydro-4-methylphthalic anhydride, VIII 112 0.050 Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride VIII 113 Lead bis(tetrafluoroborate)\* 13814-96-5 0.005 VIII 114 Lead cyanamidate\* 20837-86-9 0.005 VIII 115 Lead dinitrate\* 10099-74-8 0.005 VIII 116 Lead monoxide\* 1317-36-8 0.005 VIII 117 Lead oxide sulfate\* 12036-76-9 0.005 VIII 118 Lead tetroxide (orange lead)\* 1314-41-6 0.005 VIII 119 Lead titanium trioxide\* 12060-00-3 0.005 VIII 120 Lead titanium zirconium oxide\* 12626-81-2 0.005 VIII 121 Methoxyacetic acid 625-45-6 0.050 VIII 122 Methyloxirane (Propylene oxide) 75-56-9 0.050 VIII 123 N,N-Dimethylformamide 68-12-2 0.050 VIII 124 N-Methylacetamide 79-16-3 0.050 VIII 125 N-Pentyl-isopentylphthalate 776297-69-9 0.050 VIII o-Aminoazotoluene 126 97-56-3 0.050 o-Toluidine VIII 127 95-53-4 0.050 VIII 128 Pentacosafluorotridecanoic acid 72629-94-8 0.050 VIII 129 Pentalead tetraoxide sulphate\* 12065-90-6 0.005 VIII 130 Pyrochlore, antimony lead yellow\* 8012-00-8 0.005

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68784-75-8

11120-22-2

62229-08-7

78-00-2

12202-17-4

307-55-1

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VIII 137 Trilead bis(carbonate)dihydroxide (basic lead carbonate)\* 1319-46-

Silicic acid, barium salt, lead-doped\*

Silicic acid, lead salt\*

Sulfurous acid, lead salt, dibasic\*

Tetraethyllead\*

Tetralead trioxide sulphate\*

Tricosafluorododecanoic acid



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

Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	=	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
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 antiand syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-	•



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Batch	No.	Substance Name	CAS No.	RL (%)
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
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



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Batch	No.	Substance Name	CAS No.	RL (%)
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
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
/	225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6- tribromobenzene]	37853-59-1	0.050
,		2.2'.6.6'-		•

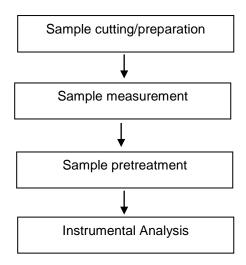
/ 226 2,2',6,6'-



# Test Report (SVHC) ATTACHMENTS

## **SVHC Testing Flow Chart**

Name of the person who made testing: Jo Li/ Winnie Shi Name of the person in charge of testing: Katie Huang



\*\*\* End of Report \*\*\*