

Test Report (SVHC)

No. SZXEC2201042509

Date: 29 Apr 2022

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Client Name : YANGZHOU KANGHONG SEMICONDUCTOR CO.,LTD

Client Address : INDUSTRIAL CONCENTRATED AREA, FANGXIANG TOWN, HANJIANG DISTRICT, YANGZHOU CITY, JIANGSU PROVINCE

Sample Name : Bridge Diode MOS

Model No. : MBS

Client Ref. Info. : MBS MSB WOB MBF MBM ABS UMB UMSB DB/DF/DBF/DBD-1/
S KBP.TBS YBS KBS GBP GBL DKB KBL RS KBU RS2 KBJ GBJ
GBU KBPC.GBPC KBPCW GBPCW 1206 DO-35 LL-34 LL-35 R-1
DO-41 DO-15 A-405.DO-27 DO-201AD R-6 DO-214AC DO-214AA
DO-214AB DO-213AA SMA.SMB SMC SMAF SMBF SMCF MELF
MINIMELF SOD-123/323/523/723/923.SOT-23/323/523/723/923/89/
223 ITO-220AB/C TO-220AB/C.TO-252/252/263/262/3P/247/277/126

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

SGS Job No. : RP22-007692 - SZ

Date of Sample Received : 14 Apr 2022

Testing Period : 14 Apr 2022 - 21 Apr 2022

Test Requested : As requested by client, SVHC screening is performed according to:
(i) Sixty one (61) inorganic substances and additional eleven (11) organic metallic substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jul 8, 2021 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : 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 Co., Ltd. Shenzhen Branch

Ford

Ford Shi
Approved Signatory

scan to see the report



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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:
 - (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 :

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX22-010425.010	Copper metal (semi-product)10A+Copper metal (semi-product)10B+Silvery metal (semi-product)10C

Test Method :

SGS In-House method- SGS-CCL-SOP-019-21, SGS-CCL-SOP-019-22, Analyzed by ICP-OES, UV-VIS.



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

Batch	Substance Name	CAS No.	010 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

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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. please refer to the SGS REACH website :
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>
 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
 6. 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.
- 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 (%)
I	1	Cobalt dichloride*	7646-79-9	0.005
I	2	Diarsenic pentaoxide*	1303-28-2	0.005
I	3	Diarsenic trioxide*	1327-53-3	0.005
I	4	Lead hydrogen arsenate*	7784-40-9	0.005
I	5	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	6	Triethyl arsenate*	15606-95-8	0.005
II	7	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	8	Lead chromate*	7758-97-6	0.005
II	9	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
III	10	Ammonium dichromate*	7789-09-5	0.005
III	11	Boric acid*	-	0.005
III	12	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	13	Potassium chromate*	7789-00-6	0.005
III	14	Potassium dichromate*	7778-50-9	0.005
III	15	Sodium chromate*	7775-11-3	0.005
III	16	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
IV	17	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	18	Chromium trioxide*	1333-82-0	0.005
IV	19	Cobalt(II) carbonate*	513-79-1	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	20	Cobalt(II) diacetate*	71-48-7	0.005
IV	21	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	22	Cobalt(II) sulphate*	10124-43-3	0.005
V	23	Strontium chromate*	7789-06-2	0.005
VI	24	Aluminosilicate Refractory Ceramic Fibres *	-	0.005
VI	25	Arsenic acid*	7778-39-4	0.005
VI	26	Calcium arsenate*	7778-44-1	0.005
VI	27	Dichromium tris(chromate) *	24613-89-6	0.005
VI	28	Lead diazide, Lead azide*	13424-46-9	0.005
VI	29	Lead dipicrate*	6477-64-1	0.005
VI	30	Lead styphnate*	15245-44-0	0.005
VI	31	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	32	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	33	Trilead diarsenate*	3687-31-8	0.005
VI	34	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	35	Diboron trioxide*	1303-86-2	0.005
VII	36	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VIII	37	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	38	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	39	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	40	Fatty acids, C16-18, lead salts*	91031-62-8	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	41	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	42	Lead cyanamidate*	20837-86-9	0.005
VIII	43	Lead dinitrate*	10099-74-8	0.005
VIII	44	Lead monoxide*	1317-36-8	0.005
VIII	45	Lead oxide sulfate*	12036-76-9	0.005
VIII	46	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	47	Lead titanium trioxide*	12060-00-3	0.005
VIII	48	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	49	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	50	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	51	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	52	Silicic acid, lead salt*	11120-22-2	0.005
VIII	53	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	54	Tetraethyllead*	78-00-2	0.005
VIII	55	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	56	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	57	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	58	Cadmium oxide*	1306-19-0	0.005
IX	59	Cadmium	7440-43-9	0.005
X	60	Cadmium sulphide*	1306-23-6	0.005
X	61	Lead di(acetate)*	301-04-2	0.005



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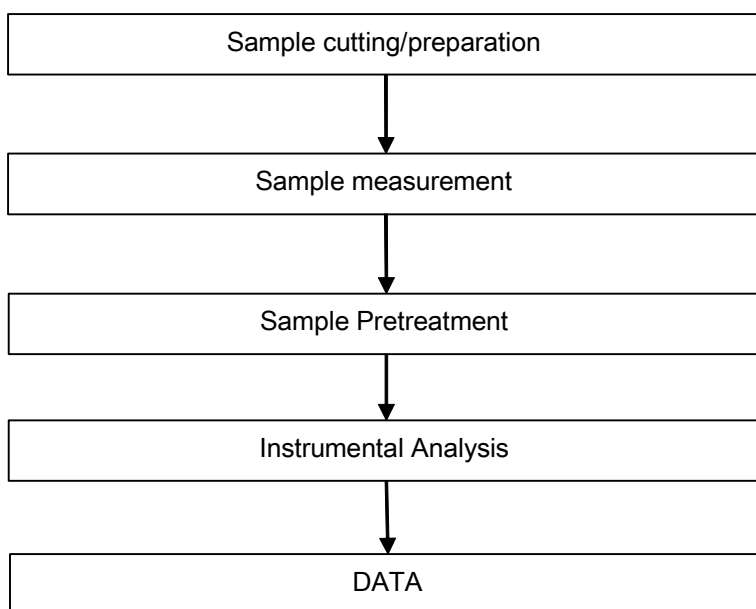
Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XI	62	Cadmium chloride*	10108-64-2	0.005
XI	63	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	64	Sodium peroxometaborate*	7632-04-4	0.005
XII	65	Cadmium fluoride*	7790-79-6	0.005
XII	66	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XVIII	67	Cadmium nitrate*	10325-94-7	0.005
XVIII	68	Cadmium carbonate*	513-78-0	0.005
XVIII	69	Cadmium hydroxide*	21041-95-2	0.005
XIX	70	Disodium octaborate*	12008-41-2	0.005
XIX	71	Lead	7439-92-1	0.005
XXV	72	Orthoboric acid, sodium salt*	13840-56-7	0.005

ATTACHMENTS

SVHC Testing Flow Chart



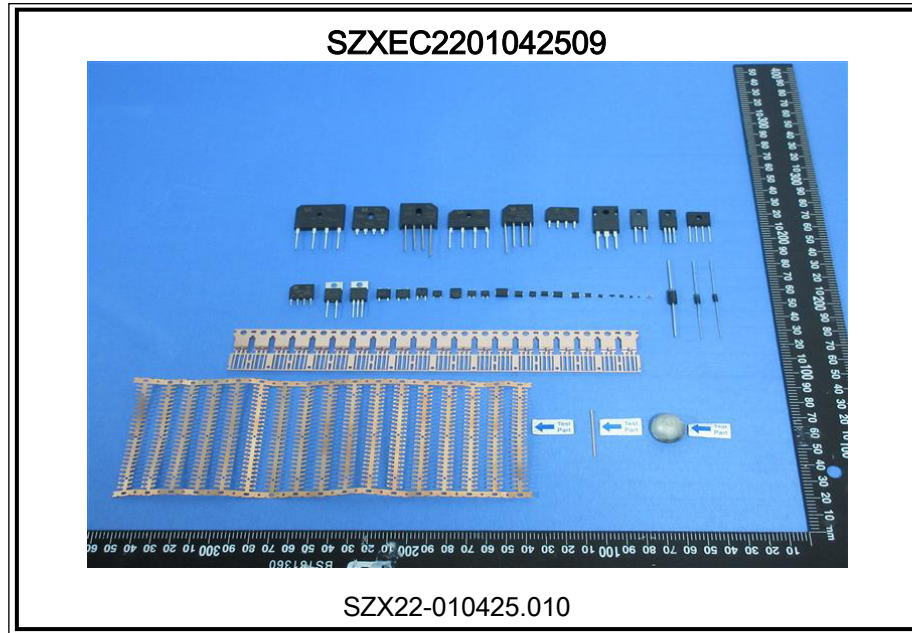
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Sample photo:



SGS authenticate the photo on original report only

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