

Test Report (SVHC)

No. SHAEC1007093501

Date: 01 Jun 2010

Page 1 of 7

JAZZ SEMICONDUCTOR

4321 JAMBOREE RD. NEWPORT BEACH, CA 92660

The following sample(s) was/were submitted and identified on behalf of the clients as : 2 X 8 inch semiconductor wafer

SGS Job No. : SP10-017758 - SH

Style No. : k92953.4-SBC18PT-8,18

Date of Sample Received : 26 May 2010

Testing Period : 26 May 2010 - 01 Jun 2010

Test Requested : As requested by client, SVHC screening is performed according to:
(i) Thirty (30) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) by March 30, 2010 regarding Regulation (EC) No 1907/2006 concerning the REACH.
(ii) Eight (8) potential SVHC in the public consultation list published by ECHA on March 08, 2010.

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

Summary :

| |
|---|
| According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample. |
|---|

| |
|------|
| PASS |
|------|

Signed for and on behalf of
SGS-CSTC Ltd.



Zhou Yan, Crystal
Approved Signatory

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

**Test Report
(SVHC)**

No. SHAEC1007093501

Date: 01 Jun 2010

Page 2 of 7

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:
 - (A) http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp
 - (B) http://echa.europa.eu/consultations/authorisation/svhc/svhc_cons_en.asp
 - (C) http://echa.europa.eu/chem_data/reg_int_tables/reg_int_curr_int_en.asp#current_svhc
 These lists are under evaluation by ECHA and may subject to change in the future.

- (2) 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).

- (3) 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.

- (4) 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 |
|--------------|------------------|-------------------|
| 1 | SHA10-070935.001 | Color solid sheet |

Test Method :

SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004, Analyzed by ICP-OES, GC-MS, GC-ECD, IC, and UV-VIS

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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

| Substance Name | CAS No. | EC No. | 001 Concentration (%) | RL (%) |
|---|--------------------------------|-------------------------------|-----------------------|--------|
| 2,4-Dinitrotoluene | 121-14-2 | 204-450-0 | ND | 0.005 |
| 4,4-Diaminodiphenylmethane(MDA) | 101-77-9 | 202-974-4 | ND | 0.005 |
| Acrylamide | 79-06-01 | 201-173-7 | ND | 0.005 |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | 287-476-5 | ND | 0.01 |
| Anthracene (ANT) | 120-12-7 | 204-371-1 | ND | 0.005 |
| Benzyl butyl phthalate (BBP) | 85-68-7 | 201-622-7 | ND | 0.005 |
| Bis (2-ethylhexylphthalate) (DEHP) | 117-81-7 | 204-211-0 | ND | 0.005 |
| Bis(tributyltin)oxide* | 56-35-9 | 200-268-0 | ND | 0.005 |
| Cobalt dichloride* | 7646-79-9 | 231-589-4 | ND | 0.005 |
| Dibutyl phthalate (DBP) | 84-74-2 | 201-557-4 | ND | 0.005 |
| Diisobutyl phthalate | 84-69-5 | 201-553-2 | ND | 0.005 |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) Δ | 25637-99-4 and 3194-55-6 | 247-148-4 and 221-695-9 | ND | 0.005 |
| Lead chromate molybdate sulfate red (C.I. Pigment Red 104)* | 12656-85-8 | 235-759-9 | ND | 0.005 |
| Lead hydrogen arsenate* | 7784-40-9 | 232-064-2 | ND | 0.005 |
| Sodium dichromate* | 7789-12-0 10588-01-9 | 234-190-3 | ND | 0.005 |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 81-15-2 | 201-329-4 | ND | 0.005 |
| Tris(2-chloroethyl)phosphate | 115-96-8 | 204-118-5 | ND | 0.005 |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



Test Report (SVHC)

No. SHAEC1007093501

Date: 01 Jun 2010

Page 4 of 7

| Substance Name | CAS No. | EC No. | 001 Concentration (%) | RL (%) |
|---|-----------------------------|-----------|-----------------------|--------|
| Aluminosilicate, Refractory Ceramic Fibres* | 650-017-00-8 (Index no.) | - | ND | 0.005 |
| Zirconia Aluminosilicate, Refractory Ceramic Fibres* | 650-017-00-8 (Index no.) | - | | |
| Anthracene oil** | 90640-80-5 | 292-602-7 | ND | 0.050 |
| Anthracene oil, anthracene paste; distn. lights** | 91995-17-4 | 295-278-5 | | |
| Anthracene oil, anthracene paste, anthracene fraction** | 91995-15-2 | 295-275-9 | | |
| Anthracene oil, anthracene-low** | 90640-82-7 | 292-604-8 | | |
| Anthracene oil, anthracene paste** | 90640-81-6 | 292-603-2 | | |
| Coal tar pitch, high temperature** | 65996-93-2 | 266-028-2 | | |
| Diarsenic pentaoxide* | 1303-28-2 | 215-116-9 | ND | 0.005 |
| Diarsenic trioxide* | 1327-53-3 | 215-481-4 | | |
| Triethyl arsenate* | 15606-95-8 | 427-700-2 | | |
| Lead chromate* | 7758-97-6 | 231-846-0 | ND | 0.005 |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34)* | 1344-37-2 | 215-693-7 | | |

Test Result : (Substances in the Consultation List of potential SVHC)

| Substance Name | CAS No. | EC No. | 001 Concentration (%) | RL (%) |
|--|--------------------------------------|------------------------|-----------------------|--------|
| Ammonium dichromate* | 7789-09-5 | 232-143-1 | ND | 0.005 |
| Boric acid* | 10043-35-3 11113-50-1 | 233-13-2 9234-343-4 | ND | 0.005 |
| Sodium chromate* | 7775-11-3 | 231-889-5 | ND | 0.005 |
| Trichloroethylene | 79-01-6 | 201-167-4 | ND | 0.005 |
| Disodium tetraborate, anhydrous* | 1303-96-4 1330-43-4 12179-04-3 | 215-540-4 | ND | 0.005 |
| Tetraboron disodium heptaoxide, hydrate* | 12267-73-1 | 235-541-3 | | |
| Potassium chromate* | 7789-00-6 | 232-140-5 | ND | 0.005 |
| Potassium dichromate* | 7778-50-9 | 231-906-6 | | |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Test Report (SVHC)

No. SHAEC1007093501

Date: 01 Jun 2010

Page 5 of 7

Notes :

- (1) RL = Reporting Limit. All RL are based on homogenous material
ND = Not detected (lower than RL)
- (2) [△] CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD):
134237-50-6, 134237-51-7, 134237-52-8
- (3) * Calculated concentration of cobalt dichloride is based on the identified cobalt by ICP-OES and the identified chloride by IC method.
Calculated concentration of diarsenic pentaoxide, diarsenic trioxide, lead hydrogen arsenate and triethyl arsenate are based on the identified arsenic and lead.
Calculated concentrations of sodium dichromate are based on the identified sodium by ICP-OES and the identified chromium(VI) by UV-Vis. The test result is reported as sodium dichromate (CAS number 10588-01-9). Please note that sodium dichromate dihydrate (CAS number 7789-12-0) is no longer classified as SVHC according to the latest amendment of 67/548/EEC (31th Adaption to Technical progress).
Calculated concentration of bis(tributyltin)oxide TBTO is based on the identified tin by ICP-OES and TLC.
Calculated concentration of lead chromate, lead chromate molybdate sulfate red and lead sulfochromate yellow are based on the identified lead, chromium and molybdenum by ICP-OES.
Calculated concentration of Aluminosilicate Refractory Ceramic Fibres and Zirconia Aluminosilicate Refractory Ceramic Fibres are based on the identified silicon, aluminum and zirconium by ICP-OES and confirmation by microscope.
Calculated concentration of ammonium dichromate is based on the identified chromium(VI) by UV-Vis.
Calculated concentration of boric acid is based on the identified boron by ICP-OES.
Calculated concentration of disodium tetraborate, anhydrous and tetraboron disodium heptaoxide, hydrate are based on the identified sodium and boron by ICP-OES
Calculated concentrations of potassium chromate and potassium dichromate are based on the identified potassium by ICP-OES and the identified chromium(VI) by UV-Vis.
Calculated concentrations of sodium chromate is based on the identified sodium by ICP-OES and the identified chromium(VI) by UV-Vis.
The client is advised to review the chemical formulation to ascertain above metal substances present in the article.
RL = 0.005% is evaluated for element (i.e. tin, cobalt, chloride, arsenic, lead, sodium chromium, chromium (VI), silicon, aluminum and zirconium respectively), except

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



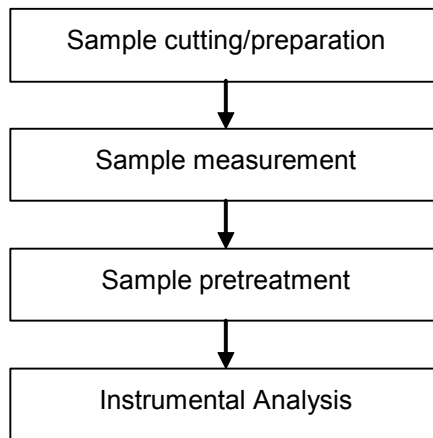
molybdenum RL=0.0005%

- (4) ** The SVHC consists of a diverse combination of chemical compounds fulfilling the definition of UVCB (substances of Unknown or Variable composition, Complex reaction products or Biological materials) under REACH regulation. Test result is calculated as per selected identifiers of the SVHC. The values are determined based on a reference anthracene oil and coal tar. Calculation is based on the worst-case scenario. Due to the UVCB nature the reported values may be regarded

ATTACHMENTS

SVHC Testing Flow Chart

- 1) Name of the person who made testing: Even Xu / Bill Zhong
- 2) Name of the person in charge of testing: Chaven Lian / Susan Liu



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



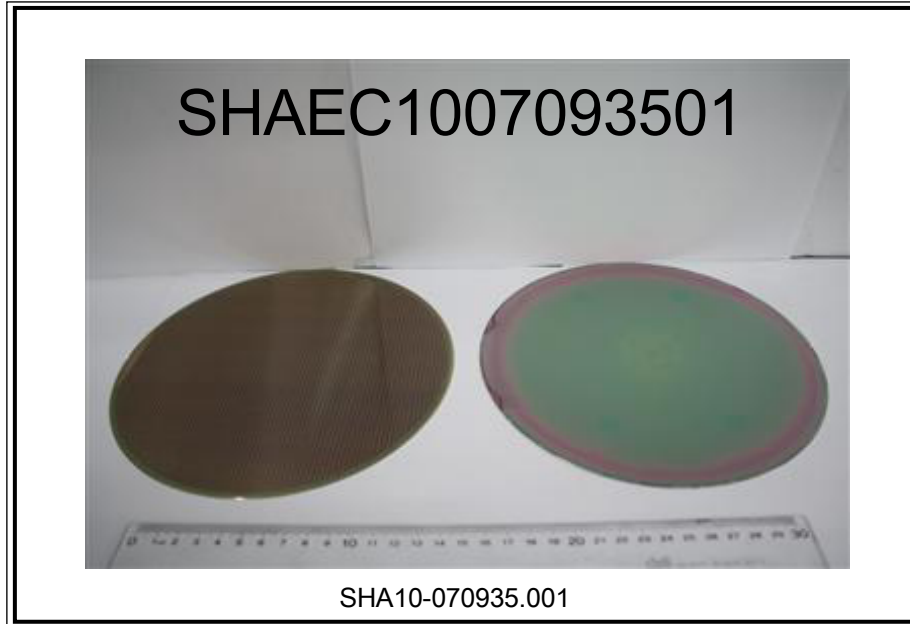
Test Report (SVHC)

No. SHAEC1007093501

Date: 01 Jun 2010

Page 7 of 7

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.