



TEST REPORT

No: SZ110200157A2R2

Report date: 2011/02/28

Applicant : ZIBO MICRO COMMERCIAL COMPONENTS CORP.

Address : ZHENGLIU ROAD, ZHANGDIAN DISTRICT, ZIBO, SHANDONG P.R. CHINA.

The following samples were submitted and identified by/on behalf of the applicant as:

Sample Name : ELECTRONIC COMPONENT, DIODES & TRANSISITORS

Sample Part No. : DO-41

Sample May Cover : Please refer to page 2.

Main Material : EPOXY RESIN, LEAD WIRE, DIE

Receiving Date : Feb.22, 2011

Testing Period : Feb.22, 2011 - Feb.28, 2011

Test Requested : According to European Commission Regulation 1907/2006 (REACH Act), to test the 8 items listed SVHC content by ECHA in 2010.12.15.
http://echa.europa.eu/doc/press/pr_10_16_svhc_consultation_20100830.pdf

Test Method : In-house method with reference to US EPA:8270D, 3052, 3050B, 6010C, 3550C and IEC 62321, EN 14582.

Test Results : Please refer to page 3.

Conclusion : According to the analyzed result on submitted samples, the contents of mentioned test items **are less than 0.1%**

Leo Qin, Lab Technical Manager

Jeffery Chou, General Manager

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Sample May Cover:

Model:

PLASTIC PACKAGE DEVICES(R-1,R-3,R-6,A-405,DO-41,DO-15,DO-201AD,DO-201AE, T-18,LEADED BUTTON,PRESSFIT,SMA,SMAL,SMAE,SMAG,SMB,SMBG,SMC,SMCG, HSMA,HSMB,HSMBG, HSMC,HSMCG,MELF,MINIMELF,D-PACK,D2-PACK, RA BUTTON, SRA BUTTON,SOD-923,SOD-882,SOD-723,SOD-523,SOD-323,SOD-123,SOT-363, SOT-563, SOT-223,SOT-523,SOT-323,SOT-23,SOT-353,SOT-343,SOT-89, POWERLITE-123, SO-8, SOD-123FL,SOD-323FL,SOT-553,SOT-143,SOP-8,SOT23-6L,WBFBP,TO-92,TO-92S, TO-92L,TO-92MOD,TO-126,TO-220,ITO-220,TO-252,TO-247,TO-3P,TO-220BUTTON, DB-1,SDB-1,MB-1,MBS-1,LMBS-1,RB-15,WOM,WOL,BR-6,BR-8D,KBP,KBPC,KBPM, KBPL,KBPR,KBU,KBJ,PB-3,PB-6,PB-10,GBU,GBJ,GBP,RS-1,RS-4L,RS-4M,RS-6,RS-6M, RS-15M,RS-20M, RS-25M,MB-35(W),MP-50(W),MT,DFN,2510,1206,0402,0603)

.....To be continued.....



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TEST RESULTS:

Test Item(s)	CAS No.	MDL (%)	Test Result(s) [▲] (%)	Classification
Cobalt(II) sulphate*	10124-43-3	0.01	N.D.	CMR
Cobalt(II) dinitrate*	10141-05-6	0.01	N.D.	CMR
Cobalt(II) carbonate*	513-79-1	0.01	N.D.	CMR
Cobalt(II) diacetate*	71-48-7	0.01	N.D.	CMR
2-Methoxyethanol	109-86-4	0.005	N.D.	CMR
2-Ethoxyethanol	110-80-5	0.005	N.D.	CMR
Chromium trioxide*	1333-82-0	0.01	N.D.	CMR
Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	---	0.01	N.D.	CMR

Test part description: Black diode

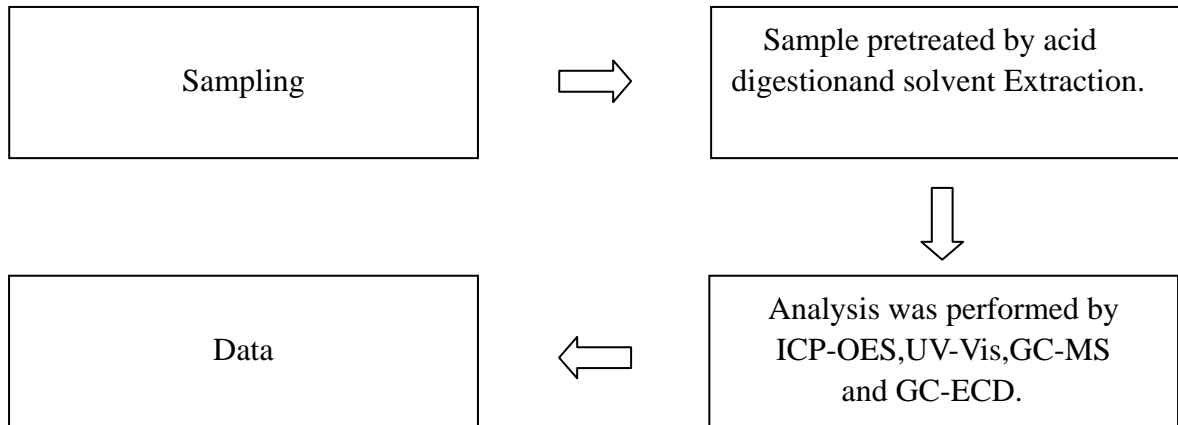
.....To be continued.....

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Flow Chart



.....To be continued.....

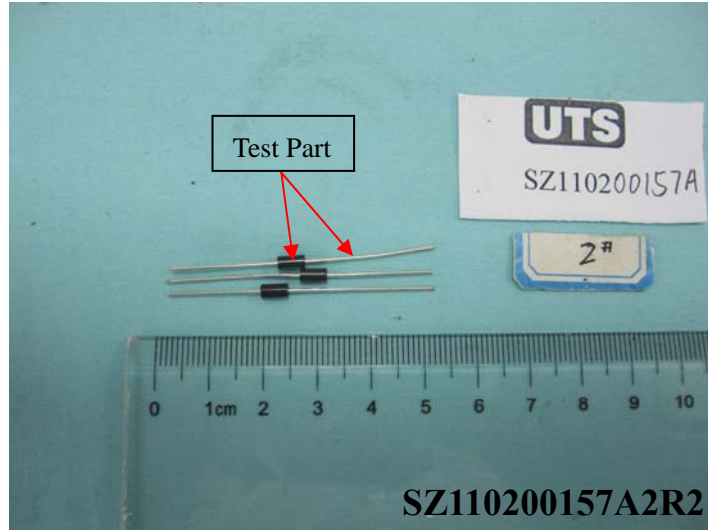


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Sample Photo



.....To be continued.....



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- Remark 1
- 1) Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation(EC) No. 1907/2006.
 - 2) In accordance with Regulation(EC) No. 1907/2006, any 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), if both the following conditions are met:
 - (a) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;
 - (b) the substance is present in those articles above a concentration of 0,1 % weight by weight (w/w).
 - 3) From 28 October 2008, EU & EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) must provide sufficient information, available to them, to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.
- Remark 2
- 1)* Calculated concentration of cobalt dichloride, cobalt(II) sulphate, cobalt(II) dinitrate, cobalt(II) carbonate and cobalt(II) diacetate is based on the identified heavy metal and anion result. calculated concentration of diarsenic pentaoxide,chromium trioxide,sodium dichromate, dehydrate, lead hydrogen arsenate, triethyl arsenate, lead chromate, sodium chromate, potassium chromate ammonium dichromate,potassium dichromate lead chromate molybdate sulfate red and lead sulfochromate yellow and acids generated from chromium trioxide and their oligomers:are based on the identified heavy metal result,boric acid, disodium tetraborate, anhydrous and tetraboron disodium heptaoxide hydrate are based on the identified result of boron and sodium result. Identity of above metal substances present in the article have to be further confirmed.
 - 2)** Concentration of bis(tributyltin)oxide, TBTO is reported as tributyltin, TBT. The result is a screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is needed to have the exact amount of TBTO.
 - 3)*** Calculated concentration of Aluminosilicate, Refractory Ceramic Fibres and Zirconia Aluminosilicate, Refractory Ceramic Fibres is based on the identified heavy metal result and confirmation by microscope.
 - 4) Not detected, less than method detection limit(MDL).
 - 5) ^ Sample was mixed test.
- CMR Carcinogen, Mutagen, Reprotoxic.

.....End of Report.....