



Test Report

No.: RSZ0903191078A

Date: April 3, 2009

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Customer : SHENZHEN HENGXINDA ELECTRONIC CO.,LTD

公司名称 : 深圳市恒新达电子有限公司

Address : 4F, 570#, FANSHEN ROAD, BAOAN DISTRICT, SHENZHEN

公司地址 : 深圳市宝安区 47 区翻身路 570 号 4 楼

Report on the submitted sample said to be
委托检测的样品及申请者对样品的说明如下

Sample Name : Aluminium Electrolytic Capacitor

样品名称 : 铝电解电容

Style/ Item No. : 100WF16V

型号

P. O. No. : QSZ1Y090318-1

订单号

Sample Receiving Date : March 20, 2009

收样日期 : 2009 年 3 月 20 日

Lately information Date : April 3, 2009

最新样品信息日期 : 2009 年 4 月 3 日

Testing Period : From March 20, 2009 to April 3, 2009

测试周期 : 2009 年 3 月 20 日 至 2009 年 4 月 3 日

Test Requested : As specified by client, to determine the fifteen (15) Substances of Very High Concern (SVHC) content in the submitted sample(s) in accordance with the list published by European Chemical Agency (ECHA) on October 9, 2008 for public consultation regarding regulation (EC) No. 1907/2006 concerning the REACH.

测试要求 : 根据客户要求及提供的样品, 依照 欧盟 REACH 法规(EC)号 1907/2006, 测试欧洲化学品管理局(ECHA) 2008 年 10 月 9 日公布的 15 种高度关注物质 (SVHC) 的含量。

Signed for and on behalf of
BACL

William Wei

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Bay Area Compliance Laboratories Corp. (Shenzhen)

6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China

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Test Method : 1) ANT, DBP, BBP, DEHP & 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene), HBCDD & Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)(SCCP) Analysis: With reference to US EPA 3540C/ US EPA 8270D Analysis was performed by GC-MS

测试方法 : 蒎(ANT), 邻苯二甲酸二丁酯(DBP), 邻苯二甲酸丁酯苯酯(BBP), 邻苯二甲酸(2-乙基己基酯)(DEHP), 2,4,6-三硝基-3,3-二甲基-5-叔丁基苯(二甲苯麝香), 六溴环十二烷(HBCDD) & 短链型 C10-13 氯化石蜡(SCCP)测试: 参照 US EPA 3540C/ US EPA 8270D 采用 GC-MS 进行分析。

2) Bis(tributyltin)oxide Analysis: With reference to DIN 3847-13:2007 Analysis was performed by GC-MS

氧化三丁锡测试: 参照 DIN 3847-13:2007 采用 GC-MS 进行分析。

3) 4,4'- Diaminodiphenylmethane(MAD) Analysis: With reference to EN 14362 Analysis was performed by GC-MS

4,4'-二氨基二苯基甲烷(MAD)测试: 参照 EN 14362 采用 GC-MS 进行分析。

4) Cobalt dichloride(CoCl₂), Diarsenic pentaoxide(As₂O₅), Diarsenic trioxide(As₂O₃), Triethyl arsenate, Sodium Dichromate, dihydrate & Lead hydrogen arsenate Analysis: With reference to US EPA 3050B/ US EPA 3052/ US EPA 3060A/ US 7196A Analysis was performed by ICP-AES

二氯化钴(CoCl₂), 五氧化二砷(As₂O₅), 三氧化二砷(As₂O₃), 三乙砷酸酯, 重铬酸钠及水合物 & 砷酸氢铅测试: 参照 US EPA 3050B/ US EPA 3052/ US EPA 3060A/ US 7196A 采用 ICP-AES 进行分析。

Results : Please refer to next page(s).

测试结果 : 参见后续页。

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Results:
测试结果：

Specimen Description (样品描述):

- (1)* Silvery metal parts of capacitor (Cover, metal foil, metal pin) mixed
电容器金属部分（盖，金属箔，金属钉）混测
- (2)* Non-metallic parts of capacitor (Plastic cover, black plastic, electrolytic paper) and brown electrolytic liquid mixed
电容器非金属部分（塑料盖，黑色塑料，电解纸）以及棕色电解液混测

No. 序号	Items 项目	CAS No. CAS 号	EC No. EC 号	Unit 单位	MDL	Results 测试结果		Category 种类
						(1)*	(2)*	
1	Anthracene 蒽(ANT)	120-12-7	204-371-1	mg/kg	0.2	N.D.	N.D.	PBT
2	4,4'-Diaminodiphenylmethane 4,4'-二氨基二苯基甲烷(MDA)	101-77-9	202-974-4	mg/kg	10	N.D.	N.D.	CMR
3	Dibutyl Phthalate 邻苯二甲酸二丁酯 (DBP)	84-74-2	201-557-4	mg/kg	30	N.D.	N.D.	CMR
4	Cobalt Dichloride 二氯化钴(CoCl ₂)	7646-79-9	231-589-4	mg/kg	100	N.D.	N.D.	CMR
5	Diarsenic Pentoxide 五氧化二砷 (As ₂ O ₅)	1303-28-2	215-116-9	mg/kg	15	N.D.	N.D.	CMR
6	Diarsenic Trioxide 三氧化二砷 (As ₂ O ₃)	1327-53-3	215-481-4	mg/kg	15	N.D.	N.D.	CMR
7	Sodium Dichromate, dihydrate 重铬酸钠及水合物	7789-12-0, 10588-01-9	234-190-3	mg/kg	35	N.D.	N.D.	CMR
8	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene) 2,4,6-三硝基-3,3-二甲基-5-叔丁基 苯(二甲苯麝香)	81-15-2	201-329-4	mg/kg	30	N.D.	N.D.	vPvB
9	Bis-(2-ethyl(hexyl) Phthalate 邻苯二甲酸(2-乙基己基酯) (DEHP)	117-81-7	204-211-0	mg/kg	30	N.D.	N.D.	CMR
10	Hexabromocyclododecane 六溴环十二烷 (HBCDD)	25637-99-4 & 3194-55-6 (134237-51-7 ,134237-50-6, 134237-52-8)	247-148-4, 221-695-9	mg/kg	10	N.D.	N.D.	PBT
11	Alkanes, C10-13, chloro(Short Chain Chlorinated Paraffins) 短链型 C10-13 氯化石蜡(SCCP)	85535-84-8	287-476-5	mg/kg	100	N.D.	N.D.	PBT
12	Bis(tributyltin)oxide 氧化三丁锡 (TBTO)	56-35-9	200-268-0	mg/kg	30	N.D.	N.D.	PBT
13	Lead Hydrogen Arsenate 砷酸氢铅	7784-40-9	232-064-2	mg/kg	50	N.D.	N.D.	CMR
14	Benzyl Butyl Phthalate 邻苯二甲酸丁酯苯酯 (BBP)	85-68-7	201-622-7	mg/kg	30	N.D.	N.D.	CMR
15	Triethyl Arsenate 三乙砷酸酯	15606-95-8	427-700-2	mg/kg	20	N.D.	N.D.	CMR

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Note:

注释:

- N.D. = Not Detected or less than MDL
N.D. = 未检出或低于检出限
- MDL = Method Detection Limit
MDL = 方法检出限
- mg/kg = ppm
毫克每千克 = ppm
- Carcinogenic, Mutagenic or toxic to Reproduction (CMR), meeting the criteria for classification in category 1 or 2 in accordance with Directive 67/548/EEC, Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) according to the criteria in Annex of XIII of the REACH Regulation, and/or Identified, on a case-by-case basis, from scientific evidence as causing probable serious effects to human health or the environment of an equivalent level of concern as those above (e.g. endocrine disrupters).

物质属于致癌性, 致突变性, 繁殖毒性(CMR), 根据指令 67/548/EEC第1类或第2类标准分类, 持久性、生物蓄积性及毒性物质(PBT)和高持久性、高生物蓄积性之物质(vPvB), 按照REACH法规附录中的第十三条辨别标准进行分类。这些分类标准有科学的数据证明该物质会对人的身体健康和环境危害有如上的影响(例如: 内分泌失调)。

- * = The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as a average value because of the whole specimen is regarded as constituting from the homogeneous material. The applicant will undertake all differences and risk.

* = 根据申请人要求, 对样品进行整体混合测试, 视样品整体为均一材质构成的, 测试报告的结果为平均值。申请人应当承担由此产生的差异和风险。

- Photo appendix is included.
样品照片见附录。

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Appendix
附录

Photograph of Sample
样品照片



BACL authenticate the photo on original report only
此图片仅限于随 BACL 正本报告使用

End of Report
报告结束

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