

# 检测报告

## Test Report

报告编号 :RLSZD0008753501a  
Report No.:RLSZD0008753501a

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**申请单位** :惠州市兴利业精密电子厂有限公司[敬业电子(惠州)有限公司]  
**Applicant** :BENNIC COMPONENTS  
**地 址** :广东省惠州市惠城区平南工业区 50 号小区  
**Address** :NO.50 DISTRICT, PINNAN INDUSTRIAL ZONE HUICHENG DISTRICT  
HUIZHOU,GUANGDONG.CHINA

### 样品信息 Report on the submitted sample(s) said to be:

序号 No.	样品名称 Sample Names	样品描述 Sample Description
1	水泥电阻	所有部件混合物(非金属) Mixed all parts(Nonmetal)
2		所有部件混合物(金属) Mixed all parts(Metal)

**客户 Buyer** :SONY,SAMSUNG,LG,MYS,UHL,PIONEER  
**样品接收日期** :2011.04.15  
**Sample Received Date** Apr. 15, 2011  
**样品检测日期** :2011.04.15-2011.04.19  
**Testing Period** Apr. 15, 2011 to Apr. 19, 2011

**检测要求** :请参见下页。  
**Test Requested** Please refer to the following page(s).

**检测依据/检测结果** :请参见下页。  
**Test Method/Test Result(s)** Please refer to the following page(s).

**摘要** :根据分析结果, 所提交样品中 46 种 SVHC 浓度小于 0.1%。  
**Summary** According to the analytical results, concentrations of 46 SVHC substances are less than 0.1% in the submitted sample.

主 检:  
Tested by  
签 发:  
Approved by



Technical Manager

审 核:  
Inspected by  
签发日期:  
Date

*Vargas*

2011.04.22

Apr. 22, 2011

No. 21203883

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### 检测要求

:根据客户要求, 参照法规(EC) No 1907/2006(REACH), 对所提交样品中 46 种高关注物质(SVHC)(蒽、4,4'-二氨基二苯基甲烷、邻苯二甲酸二丁酯、二氯化钴、五氧化二砷、三氧化二砷、重铬酸钠、二甲苯麝香、邻苯二甲酸二(2-乙基己基)酯(DEHP)、六溴环十二烷(HBCDD)、短链氯化石蜡、三丁基氧化锡、砷酸氢铅、邻苯二甲酸丁基苄酯、三乙基砷酸酯、蒽油、4 种蒽油类、煤焦油沥青,高温、丙烯酰胺、硅酸铝耐火陶瓷纤维、氧化锆硅酸铝耐火陶瓷纤维、2,4-二硝基甲苯、邻苯二甲酸二异丁酯(DIBP)、铬酸铅、钼铬红(C.I.颜料红 104)、铅铬黄(C.I.颜料黄 34)、磷酸三(2-氯乙基)酯(TCEP)、三氯乙烯、硼酸、四硼酸钠,无水、四硼酸钠,水合物、铬酸钠、铬酸钾、重铬酸铵、重铬酸钾、硫酸钴、硝酸钴、碳酸钴、醋酸钴、乙二醇单甲醚、乙二醇单乙醚、三氧化铬、从三氧化铬产生的酸类以及它们的齐聚物: 铬酸、重铬酸、铬酸和重铬酸的齐聚物)进行筛选测试。

### Test Requested

As specified by client, to screen the 46 substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH, including:  
Anthracene; 4,4'-Diaminodiphenylmethane; Dibutyl phthalate;  
Cobalt dichloride; Diarsenic pentaoxide; Diarsenic trioxide; Sodium dichromate; Musk-xylene; Bis(2-ethyl(hexyl)phthalate)(DEHP);  
Hexabromocyclododecane(HBCDD); Short Chain Chlorinated Paraffins;  
Bis(tributyltin)oxide; Lead hydrogen arsenate; Benzyl butyl phthalate;  
Triethyl Arsenate; Anthracene oil; four types of Anthracene oil fractions;  
Coal tar pitch, high temperature; Acrylamide; Aluminosilicate, Refractory Ceramic Fibres; Zirconia Aluminosilicate, Refractory Ceramic Fibres;  
2,4-Dinitrotoluene; Diisobutyl phthalate (DIBP); Lead chromate; Lead chromate molybdate sulphate red (C.I. Pigment Red 104); Lead sulfochromate yellow(C.I. Pigment Yellow 34); Tris(2-chloroethyl)phosphate (TCEP);  
Trichloroethylene; Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate; Sodium chromate; Potassium chromate;  
Ammonium dichromate; Potassium dichromate; Cobalt(II) sulphate;  
Cobalt(II) dinitrate; Cobalt(II) carbonate; Cobalt(II) diacetate;  
2-Methoxyethanol; 2-Ethoxyethanol; Chromium trioxide;  
Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid in the submitted sample.

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检测依据 Test Method:

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物质名称 Substance Name(s)	测试方法及仪器 Test Method and Equipments	检出限 Report Limit
蒽 Anthracene	参考 US EPA 3550C:2007& US EPA 8270D:2007, GC-MS Refer to US EPA 3550C:2007& US EPA 8270D:2007, GC-MS	0.005%
4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane	参考 US EPA 8270D:2007, GC-MS Refer to US EPA 8270D:2007, GC-MS	0.005%
邻苯二甲酸二丁酯 Dibutyl phthalate(DBP)	参考 EN 14372:2004, GC-MS Refer to EN 14372:2004, GC-MS	0.005%
氯化钴 Cobalt dichloride*	参考 US EPA 3052:1996/ BS EN14582:2007, ICP-OES/IC Refer to US EPA 3052:1996/ BS EN14582:2007, ICP-OES/IC	0.01%
五氧化二砷 Diarsenic pentaoxide*	参考 US EPA 3052:1996, ICP-OES Refer to US EPA 3052:1996, ICP-OES	0.01%
三氧化二砷 Diarsenic trioxide*	参考 US EPA 3052:1996, ICP-OES Refer to US EPA 3052:1996, ICP-OES	0.01%
重铬酸钠 Sodium dichromate*	参考 US EPA 3052:1996/ US EPA 3060A:1996,ICP-OES/UV-Vis Refer to US EPA 3052:1996/ US EPA3060A:1996, ICP-OES/UV-Vis	0.01%
二甲苯麝香 Musk xylene	参考 US EPA 3540C:1996, GC-MS Refer to US EPA 3540C:1996, GC-MS	0.005%
邻苯二甲酸二(2-乙基己基)酯 Bis(2-ethyl(hexyl)phthalate)(DEHP)	参考 EN 14372:2004, GC-MS Refer to EN 14372:2004, GC-MS	0.005%
六溴环十二烷 Hexabromocyclododecane (HBCDD)	参考 US EPA 3540C:1996, GC-MS Refer to US EPA 3540C:1996, GC-MS	0.005%
短链氯化石蜡 Short Chain Chlorinated Paraffins(SCCPs)	参考 US EPA 3540C:1996, GC-MS Refer to US EPA 3540C:1996, GC-MS	0.01%
三丁基氧化锡 Bis(tributyltin)oxide (TBTO)*	参考 US EPA 3052:1996/ ISO 17353:2004, ICP-OES/GC-MS Refer to US EPA 3052:1996/ ISO 17353:2004, ICP-OES/GC-MS	0.005%

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物质名称 Substance Name(s)	测试方法及仪器 Test Method and Equipments	检出限 Report Limit
砷酸氢铅 Lead hydrogen arsenate*	参考 US EPA 3052:1996, ICP-OES Refer to US EPA 3052:1996, ICP-OES	0.01%
邻苯二甲酸丁基苯酯 Benzyl butyl phthalate(BBP)	参考 EN 14372:2004, GC-MS Refer to EN 14372:2004, GC-MS	0.005%
三乙基砷酸酯 Triethyl arsenate*	参考 US EPA 3052:1996, ICP-OES Refer to US EPA 3052:1996, ICP-OES	0.01%
①蒽油 Anthracene oil	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.05%
①蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. Lights ****	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.05%
①蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste, anthracene fraction	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.05%
①蒽油,含量量少 Anthracene oil, anthracene-low	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.05%
①蒽油,蒽糊 Anthracene oil, anthracene paste	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.05%
①煤焦油沥青,高温 Coal tar pitch, high temperature	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.05%
丙烯酰胺 Acrylamide	参考 US EPA 3550C:2007, HPLC Refer to US EPA 3550C:2007, HPLC	0.01%
②硅酸铝耐火陶瓷纤维 Aluminosilicate, Refractory Ceramic Fibres	参考 US EPA 3052:1996, ICP-OES/SEM-EDS Refer to US EPA 3052:1996, ICP-OES/SEM-EDS	0.05%
②氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate, Refractory Ceramic Fibres	参考 US EPA 3052:1996, ICP-OES/SEM-EDS Refer to US EPA 3052:1996, ICP-OES/SEM-EDS	0.05%
2,4-二硝基甲苯 2,4-Dinitrotoluene	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.01%
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	参考 EN 14372:2004, GC-MS Refer to EN 14372:2004, GC-MS	0.005%
②铬酸铅 Lead chromate	参考 US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis Refer to US EPA 3052:1996/ US EPA 3060A:1996, ICP-OES/UV-Vis	0.05%

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**检测依据 Test Method:**

物质名称 Substance Name(s)	测试方法及仪器 Test Method and Equipments	检出限 Report Limit
② 钼铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	参考 US EPA 3052:1996/US EPA 3060A:1996,ICP-OES/UV-Vis Refer to US EPA 3052:1996/ US EPA 3060A:1996,ICP-OES/UV-Vis	0.05%
② 铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow(C.I. Pigment Yellow 34)***	参考 US EPA 3052:1996/US EPA 3060A:1996,ICP-OES/UV-Vis Refer to US EPA 3052:1996/ US EPA 3060A:1996,ICP-OES/UV-Vis	0.05%
磷酸三(2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.01%
三氯乙烯 Trichloroethylene	参考 US EPA 5021:1996,Headspace-GC/MS Refer to US EPA 5021:1996,Headspace-GC/MS	0.005%
③ 硼酸 Boric acid	参考 US EPA 3052:1996, ICP-OES Refer to US EPA 3052:1996, ICP-OES	0.01%
③ 四硼酸钠, 无水 Disodium tetraborate, anhydrous*****	参考 US EPA 3052:1996, ICP-OES Refer to US EPA 3052:1996, ICP-OES	0.01%
③ 四硼酸钠, 水合物 Tetraboron disodium heptaoxide, hydrate*****	参考 US EPA 3052:1996, ICP-OES Refer to US EPA 3052:1996, ICP-OES	0.01%
④ 铬酸钠 Sodium chromate	参考 US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis Refer to US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	0.01%
④ 铬酸钾 Potassium chromate	参考 US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis Refer to US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	0.01%
④ 重铬酸铵 Ammonium dichromate	参考 US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis Refer to US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	0.01%
④ 重铬酸钾 Potassium dichromate	参考 US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis Refer to US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	0.01%

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物质名称 Substance Name(s)	测试方法及仪器 Test Method and Equipments	检出限 Report Limit
⑤硫酸钴 Cobalt(II) sulphate	参考 US EPA 3052:1996 & 内部方法/ ICP-OES & IC Refer to US EPA 3052:1996 & in-house method/ ICP-OES & IC	0.01%
⑤硝酸钴 Cobalt(II) dinitrate	参考 US EPA 3052:1996 & 内部方法/ ICP-OES & IC Refer to US EPA 3052:1996 & in-house method/ ICP-OES & IC	0.01%
⑤碳酸钴 Cobalt(II) carbonate	参考 US EPA 3052:1996 & 内部方法/ ICP-OES & IC Refer to US EPA 3052:1996 & in-house method/ ICP-OES & IC	0.01%
⑤醋酸钴 Cobalt(II) diacetate	参考 US EPA 3052:1996 & 内部方法/ ICP-OES & IC Refer to US EPA 3052:1996 & in-house method/ ICP-OES & IC	0.01%
乙二醇单甲醚 2-Methoxyethanol	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.005%
乙二醇单乙醚 2-Ethoxyethanol	参考 US EPA 3550C:2007, GC-MS Refer to US EPA 3550C:2007, GC-MS	0.005%
⑤三氧化铬 Chromium trioxide	参考 US EPA3052:1996 & US EPA3060A:1996/ ICP-OES & UV-Vis Refer to US EPA3052:1996 & US EPA3060A:1996/ ICP-OES & UV-Vis	0.01%
⑤从三氧化铬产生的酸类以及它们的齐聚物: 铬酸、重铬酸、铬酸和重铬酸的齐聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	参考 US EPA3052:1996 & US EPA3060A:1996/ ICP-OES & UV-Vis Refer to US EPA3052:1996 & US EPA3060A:1996/ ICP-OES & UV-Vis	0.01%

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**物质信息 Substance Information:**

物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	物质分类 Substance Classification
蒽 Anthracene	120-12-7	204-371-1	持久性,生物累积性 和毒性物质 PBT
4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	第2类致癌性物质 Carcinogen, cat. 2
邻苯二甲酸二丁酯 Dibutyl phthalate(DBP)	84-74-2	201-557-4	第2类生殖系统毒性物质 Toxic for reproduction, cat.2
二氯化钴 Cobalt dichloride*	7646-79-9	231-589-4	第 2 类致癌性物质 Carcinogen, cat.2
五氧化二砷 Diarsenic pentaoxide*	1303-28-2	215-116-9	第1类致癌性物质 Carcinogen, cat.1
三氧化二砷 Diarsenic trioxide*	1327-53-3	215-481-4	第1类致癌性物质 Carcinogen, cat.1
重铬酸钠 Sodium dichromate*	7789-12-0 / 10588-01-9	234-190-3	第2类致癌性物质; 第2类致畸性物 质; 第2类生殖系统毒性物质 Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2
二甲苯麝香 Musk xylene	81-15-2	201-329-4	高持久性和高度生物累积性物质 vPvB
邻苯二甲酸二(2-乙基己基)酯 Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	204-211-0	第2类生殖系统毒性物质 Toxic for reproduction, cat.2
六溴环十二烷 Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	247-148-4/ 221-695-9	持久性,生物累积性和毒性物质 PBT
短链氯化石蜡 Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	持久性,生物累积性和毒性物质;高 持久性和高度生物累积性物质 PBT; vPvB
三丁基氧化锡 Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	持久性,生物累积性和毒性物质 PBT
砷酸氢铅 Lead hydrogen arsenate*	7784-40-9	232-064-2	第 1 类致癌性物质; 第 1 类生殖系统毒性物质 Carcinogen, cat.1; Toxic for reproduction, cat.1
邻苯二甲酸丁基苄酯 Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	第 2 类生殖系统毒性物质 Toxic for reproduction, cat.2

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物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	物质分类 Substance Classification
三乙基砷酸酯 Triethyl arsenate*	15606-95-8	427-700-2	第 1 类致癌性物质 Carcinogen, cat.1
①蒽油 Anthracene oil	90640-80-5	292-602-7	持久性,生物积累性和毒性物质 PBT
①蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. Lights ****	91995-17-4	295-278-5	持久性,生物积累性和毒性物质 PBT
①蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	持久性,生物积累性和毒性物质 PBT
①蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7	292-604-8	持久性,生物积累性和毒性物质 PBT
①蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6	292-603-2	持久性,生物积累性和毒性物质 PBT
①煤焦油沥青,高温 Coal tar pitch, high temperature	65996-93-2	266-028-2	持久性,生物积累性和毒性物质;第 2 类致癌性物质 PBT; Carcinogen, cat.2
丙烯酰胺 Acrylamide	79-06-1	201-173-7	第 2 类致癌性物质; 第 2 类致畸性物质 Carcinogen, cat.2; Mutagen, cat.2
②硅酸铝耐火陶瓷纤维 Aluminosilicate, Refractory Ceramic Fibres	-	650-017-00-8**	第 2 类致癌性物质 Carcinogen, cat.2
②氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate, Refractory Ceramic Fibres	-	650-017-00-8**	第 2 类致癌性物质 Carcinogen, cat.2
2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2	204-450-0	第 2 类致癌性物质 Carcinogen, cat.2
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	第 2 类生殖系统毒性物质 Toxic for reproduction, cat.2
②铬酸铅 Lead chromate	7758-97-6	231-846-0	第 2 类致癌性物质; 第 1 类生殖系统毒性物质 Carcinogen, cat.2; Toxic for reproduction, cat.1
②钼铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	第 2 类致癌性物质; 第 1 类生殖系统毒性物质 Carcinogen, cat.2; Toxic for reproduction, cat.1



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物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	物质分类 Substance Classification
®铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow(C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	第 2 类致癌性物质; 第 1 类生殖系统毒性物质 Carcinogen, cat.2; Toxic for reproduction, cat.1
磷酸三(2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	第 2 类生殖系统毒性物质 Toxic for reproduction, cat.2
三氯乙烯 Trichloroethylene	79-01-6	201-167-4	第 2 类致癌性物质 Carcinogen, cat.2
®硼酸 Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	第 2 类生殖系统毒性物质 Toxic for reproduction,cat2
®四硼酸钠, 无水 Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	第 2 类生殖系统毒性物质 Toxic for reproduction,cat2
®四硼酸钠, 水合物 Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	第 2 类生殖系统毒性物质 Toxic for reproduction,cat2
®铬酸钠 Sodium chromate	7775-11-3	231-889-5	第 2 类致癌性物质; 第 2 类致畸性物质; 第 2 类生殖系统毒性物质 Carcinogen, cat.2; Mutagenic cat2; Toxic for reproduction,cat2
®铬酸钾 Potassium chromate	7789-00-6	232-140-5	第 2 类致癌性物质; 第 2 类致畸性物质 Carcinogen, cat.2; Mutagenic cat2
®重铬酸铵 Ammonium dichromate	7789-09-5	232-143-1	第 2 类致癌性物质; 第 2 类致畸性物质; 第 2 类生殖系统毒性物质 Carcinogen, cat.2; Mutagenic cat2; Toxic for reproduction,cat2
®重铬酸钾 Potassium dichromate	7778-50-9	231-906-6	第 2 类致癌性物质; 第 2 类致畸性物质; 第 2 类生殖系统毒性物质 Carcinogen, cat.2; Mutagenic cat2; Toxic for reproduction,cat2

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物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	物质分类 Substance Classification
⑤硫酸钴 Cobalt(II) sulphate	10124-43-3	233-334-2	第2类生殖系统毒性物质; 第2类致癌性物质 Toxic for reproduction, cat.2 Carcinogen, cat 2
⑤硝酸钴 Cobalt(II) dinitrate	10141-05-6	233-402-1	第2类生殖系统毒性物质; 第2类致癌性物质 Toxic for reproduction, cat.2 Carcinogen, cat 2
⑤碳酸钴 Cobalt(II) carbonate	513-79-1	208-169-4	第2类生殖系统毒性物质; 第2类致癌性物质 Toxic for reproduction, cat.2 Carcinogen, cat 2
⑤醋酸钴 Cobalt(II) diacetate	71-48-7	200-755-8	第2类生殖系统毒性物质; 第2类致癌性物质 Toxic for reproduction, cat.2 Carcinogen, cat 2
乙二醇单甲醚 2-Methoxyethanol	109-86-4	203-713-7	第2类生殖系统毒性物质 Toxic for reproduction, cat 2
乙二醇单乙醚 2-Ethoxyethanol	110-80-5	203-804-1	第2类生殖系统毒性物质 Toxic for reproduction, cat 2
⑤三氧化铬 Chromium trioxide	1333-82-0	215-607-8	第1类致癌性物质; 第2类致畸性物质 Carcinogen, cat 1; Mutagenic cat 2
⑤从三氧化铬产生的酸类以及它们的齐聚物: 铬酸、重铬酸、铬酸和重铬酸的齐聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5	第2类致癌性物质 Carcinogen, cat 2

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物质名称 Substance Name(s)	浓度 Concentration(%)	
	样品1 Sample No.1	样品2 Sample No.2
蒽 Anthracene	N.D.	N.A.
4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane	N.D.	N.A.
邻苯二甲酸二丁酯 Dibutyl phthalate(DBP)	N.D.	N.A.
二氯化钴 Cobalt dichloride*	N.D.	N.D.
五氧化二砷 Diarsenic pentaoxide*	N.D.	N.D.
三氧化二砷 Diarsenic trioxide*	N.D.	N.D.
重铬酸钠 Sodium dichromate*	N.D.	N.D.
二甲苯麝香 Musk xylene	N.D.	N.A.
邻苯二甲酸二(2-乙基己基)酯 Bis(2-ethyl(hexyl)phthalate)(DEHP)	N.D.	N.A.
六溴环十二烷 Hexabromocyclododecane (HBCDD)	N.D.	N.A.
短链氯化石蜡 Short Chain Chlorinated Paraffins(SCCPs)	N.D.	N.A.
三丁基氧化锡 Bis(tributyltin)oxide (TBTO)*	N.D.	N.A.
砷酸氢铅 Lead hydrogen arsenate*	N.D.	N.D.
邻苯二甲酸丁基苄酯 Benzyl butyl phthalate(BBP)	N.D.	N.A.
三乙基砷酸酯 Triethyl arsenate*	N.D.	N.D.
①蒽油 Anthracene oil	N.D.	N.A.
①蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. Lights ****	N.D.	N.A.
①蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste, anthracene fraction	N.D.	N.A.
①蒽油,含蒽量少 Anthracene oil, anthracene-low	N.D.	N.A.
①蒽油,蒽糊 Anthracene oil, anthracene paste	N.D.	N.A.
①煤焦油沥青,高温 Coal tar pitch, high temperature	N.D.	N.A.

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物质名称 Substance Name(s)	浓度 Concentration(%)	
	样品1 Sample No.1	样品2 Sample No.2
丙烯酰胺 Acrylamide	N.D.	N.A.
<sup>②</sup> 硅酸铝耐火陶瓷纤维 Aluminosilicate, Refractory Ceramic Fibres	N.D.	N.D.
<sup>②</sup> 氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate, Refractory Ceramic Fibres	N.D.	N.D.
2,4-二硝基甲苯 2,4-Dinitrotoluene	N.D.	N.A.
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	N.D.	N.A.
<sup>②</sup> 铬酸铅 Lead chromate	N.D.	N.D.
<sup>②</sup> 钼铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	N.D.	N.D.
<sup>②</sup> 铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow(C.I. Pigment Yellow 34)***	N.D.	N.D.
磷酸三(2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	N.D.	N.A.
三氯乙烯 Trichloroethylene	N.D.	N.A.
<sup>③</sup> 硼酸 Boric acid	N.D.	N.D.
<sup>③</sup> 四硼酸钠, 无水 Disodium tetraborate, anhydrous*****	N.D.	N.D.
<sup>③</sup> 四硼酸钠, 水合物 Tetraboron disodium heptaoxide, hydrate*****	N.D.	N.D.
<sup>④</sup> 铬酸钠 Sodium chromate	N.D.	N.D.
<sup>④</sup> 铬酸钾 Potassium chromate	N.D.	N.D.
<sup>④</sup> 重铬酸铵 Ammonium dichromate	N.D.	N.D.
<sup>④</sup> 重铬酸钾 Potassium dichromate	N.D.	N.D.

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物质名称 Substance Name(s)	浓度 Concentration(%)	
	样品1 Sample No.1	样品2 Sample No.2
⑤硫酸钴 Cobalt(II) sulphate	N.D.	N.D.
⑤硝酸钴 Cobalt(II) dinitrate	N.D.	N.D.
⑤碳酸钴 Cobalt(II) carbonate	N.D.	N.D.
⑤醋酸钴 Cobalt(II) diacetate	N.D.	N.D.
乙二醇单甲醚2-Methoxyethanol	N.D.	N.A.
乙二醇单乙醚2-Ethoxyethanol	N.D.	N.A.
⑤三氧化铬Chromium trioxide	N.D.	N.D.
⑤从三氧化铬产生的酸类以及它们的齐聚物： 铬酸、重铬酸、铬酸和重铬酸的齐聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	N.D.	N.D.

**注释:**

1. -N.D. = 未检出 (小于检出限); -N.A.= 未分析
2. -0.1% = 1000 mg/kg = 1000 ppm
3. -\*:二氯化钴浓度值是由钴(Co)和氯(Cl)测试结果换算而来。  
五氧化二砷、三氧化二砷、重铬酸钠、砷酸氢铅、三乙基砷酸酯的浓度值是由物质中的特征元素测试结果换算而来。  
三丁基氧化锡的浓度值是由三丁基锡结果换算而来。
4. -\*\*::在化学物质及其混合物的分类, 标记与包装法规, 即 CLP 法规(法规(EC)No 1272/2008)的附录 VI 中, 索引号 650-017-00-8 适用于所有的耐火陶瓷纤维材料。
5. -\*\*\*:C.I.:颜料索引号
6. -\*\*\*\*:蒸馏所分离出来的轻油部分
7. -\*\*\*\*\*:四硼酸钠, 无水和四硼酸钠, 水合物的浓度均由四硼酸钠浓度表示, 没有考虑结晶水。
8. -<sup>①</sup>:由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。
9. -<sup>②</sup>:由于此物质含有多种物质, 测试结果是基于此物质中最具有代表性的主要组成化合物的含量, 其主要造成化合物的测试结果是基于特征元素的浓度换算而来。
10. -<sup>③</sup>: 硼酸; 四硼酸钠, 无水; 四硼酸钠, 水合物的浓度值是由物质中的特征元素测试结果换算而来, 并用适当溶剂萃取进行确认, 同时建议客户检查化学配方表进一步确认是否含有上述化合物。

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- 11.<sup>④</sup>: 铬酸钠; 铬酸钾; 重铬酸铵和重铬酸钾的浓度值是由物质中的特征元素测试结果换算而来。
- 12.<sup>⑤</sup>: 硫酸钴、硝酸钴、碳酸钴、醋酸钴、三氧化铬、铬酸、重铬酸、铬酸和重铬酸的齐聚物是由物质中的特征元素测试结果换算而来。

### Note:

1. -N.D. = Not Detected (<report limit); -N.A.= Not Available
2. -0.1%= 1000 mg/kg =1000 ppm
3. -PBT= Persistent,Bioaccumulative,Toxic; vPvB=very Persistent very Bioaccumulative
4. -\*:Concentration value of Cobalt dichloride by the conversion from the test results of Cobalt and Chlorine.  
Concentration value of Diarsenic pentaoxide, Diarsenic trioxide, Sodium dichromate, Lead hydrogen arsenate, Triethyl arsenate by the conversion from the test results of certain elements.  
Concentration value of Bis(tributyltin)oxide by the conversion from the test results of Tributyl Tins.
5. -\*:All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
6. -\*\*\*: C.I.: Colour Index
7. -\*\*\*\*:Light fractions from distillation
8. -\*\*\*\*\*:Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate.
9. -<sup>①</sup>:In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.
10. -<sup>②</sup>:In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of certain elements.
11. -<sup>③</sup>:Concentration value of Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate are calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.
12. -<sup>④</sup>: Concentration value of Sodium chromate; Potassium chromate; Ammonium dichromate; Potassium dichromate are calculated by the conversion from the test results of certain elements.
13. -<sup>⑤</sup>: Concentration values of Cobalt( II ) sulphate, Cobalt( II ) dinitrate, Cobalt( II ) carbonate, Cobalt( II ) diacetate, Chromium trioxide ,Chromic acid, Dichromic acid, and Oligomers of chromic acid and dichromic acid are calculated by the conversion from the test results of certain elements.

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备注: 此份报告中蒽、4,4'-二氨基二苯基甲烷、邻苯二甲酸二丁酯、二氯化钴、五氧化二砷、三氧化二砷、重铬酸钠、二甲苯麝香、邻苯二甲酸二(2-乙基己基)酯(DEHP)、六溴环十二烷(HBCDD)、短链氯化石蜡、三丁基氧化锡、砷酸氢铅、邻苯二甲酸丁基苄酯、三乙基砷酸酯、葱油、4种葱油类、煤焦油沥青,高温、丙烯酰胺、硅酸铝耐火陶瓷纤维、氧化锆硅酸铝耐火陶瓷纤维、2,4-二硝基甲苯、邻苯二甲酸二异丁酯(DIBP)、铬酸铅、钼铬红(C.I.颜料红 104)、铅铬黄(C.I.颜料黄 34)、磷酸三(2-氯乙基)酯(TCEP)的结果从编号为 RLSZC0005163801 的测试报告中复制而来。

**Remark: The test results of Anthracene; 4,4'-Diaminodiphenylmethane; Dibutyl phthalate; Cobalt dichloride; Diarsenic pentaoxide; Diarsenic trioxide; Sodium dichromate; Musk-xylene; Bis(2-ethyl(hexyl)phthalate)(DEHP); Hexabromocyclododecane(HBCDD); Short Chain Chlorinated Paraffins; Bis(tributyltin)oxide; Lead hydrogen arsenate; Benzyl butyl phthalate; Triethyl Arsenate; Anthracene oil; four types of Anthracene oil fractions; Coal tar pitch, high temperature; Acrylamide; Aluminosilicate, Refractory Ceramic Fibres; Zirconia Aluminosilicate, Refractory Ceramic Fibres; 2,4-Dinitrotoluene; Diisobutyl phthalate (DIBP); Lead chromate; Lead chromate molybdate sulphate red (C.I. Pigment Red 104); Lead sulfochromate yellow (C.I. Pigment Yellow 34); Tris(2-chloroethyl)phosphate (TCEP) copy from the test report (Report No. RLSZC0005163801).**

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### 附加信息:

1. 根据欧盟 REACH 法规（编号 1907/2006）第 33 条款之规定，物品类产品如果含有候选列表上的高度关注物质且在物品中的质量百分比超过 0.1%时，物品供应方需履行相关信息传递义务：
  - 1) 物品供应方应提供给接收方关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。
  - 2) 应消费者请求，物品供应方应在 45 天内免费提供关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。
2. 根据欧盟 REACH 法规（编号 1907/2006）第 31 条款及附件 2 之规定，提供高度关注物质的物质类产品供应方，应免费提供接收方该物质的安全数据表。
3. 根据欧盟 REACH 法规（编号 1907/2006）第 31、32 条款及附件 2 之规定，提供含有高度关注物质的混合物产品供应方需传递相关信息：
  - 1) 如果混合物产品按照 1999/45/EC 被判定为危险品时，供应方应免费提供产品的安全数据表。
  - 2) 如果混合物产品按照 1999/45/EC 判定并非危险品，但是任一高度关注物质在非气体混合物中质量分数超过 0.1%或在气体混合物中体积分数超过 0.2%，供应方也应免费提供产品的安全数据表。



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### Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0,1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
  - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
  - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
  - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
  - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures or  $\geq 0.2$  % by volume for gaseous mixtures.

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### 成品图片 Photo of the Finished Product



\*\*\* 报告结束 \*\*\*

\*\*\* End of report \*\*\*

本报告无 CTI 盖章无效。本报告不得修改、增加或删除。此结果只对本次受测样品的结果负责。未经 CTI 书面同意，不得部分复制本报告，亦不可作为宣传品使用。

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