

Report No.: 18300RC00166001
报告编号: 18300RC00166001

Test Report

检测报告

Client Name : Fujian Qiaoguang Electronic Technology co.,ltd.
委托单位 : 福建省乔光电子科技有限公司

Address : No.21, Dengbang Industrial and Trade New Area, Dayang Road, Xiyuan Town, Zhangping City, Longyan City, Fujian province
地址 : 福建省龙岩市漳平市西园镇登榜工贸新区大洋路 21 号

Product Name : Zinc oxide varistor (copper electrode)
产品名称 : 氧化锌压敏电阻(铜电极)

Date : May 20, 2020
日期 : 2020 年 05 月 20 日

Shenzhen Anbotek Compliance Laboratory Limited


深圳安博检测股份有限公司



Shenzhen Anbotek Compliance Laboratory Limited

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Applicant : Fujian Qiaoguang Electronic Technology co.,ltd.
申请单位 : 福建省乔光电子科技有限公司

Address : No.21, Dengbang Industrial and Trade New Area, Dayang Road,
地址 : Xiyuan Town, Zhangping City, Longyan City, Fujian province
福建省龙岩市漳平市西园镇登榜工贸新区大洋路 21 号

The submitted sample and sample information was/were submitted and identified by/on the behalf of the client/委托检测之样品及样品信息由申请者提供并确认

Sample Name : Zinc oxide varistor (copper electrode)
样品名称 : 氧化锌压敏电阻(铜电极)

Material : Zinc oxide + copper + epoxy resin + CP wire
材料 : 氧化锌+铜+环氧树脂+CP 线

Sample Received Date : May 14, 2020
样品接收日期 : 2020年05月14日

Testing Period : May 14, 2020 to May 20, 2020
样品测试日期 : 2020年05月14日至2020年05月20日

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

Test Method/检测方法: In-House method-Analyzed by ICP-OES, PLM, UV-Vis, LC-MS-MS,GC-MS and colorimetric method /内部方法—采用 ICP-OES, PLM, UV-Vis, LC-MS-MS, GC-MS 和比色法进行分析。

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

Summary/ 总结:

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the articles of the submitted sample.
根据欧盟法规关于 REACH 条款的定义以及指定范围和评估筛选的裁决, 委托样品中高度关注物质(SVHC)的浓度均小于 0.1%(w/w)

PASS
通过

Edited by Qin Na
报告编制人

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报告审核人

Authorized Signatory Devin Ye
授权签字人

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Test Requested**检测要求**

: As specified by client, based on the list published by European chemicals agency (ECHA) for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the two hundred and five (205) Substances of Very High Concern (SVHC) in the submitted sample.

根据客户要求及 REACH 法规 1907/2006/EC, 依据欧洲化学品管理局发布的高度关注物质清单, 测定委托样品中 205 种高度关注物质。

Tested Sample/Part Description: (测试样品/部位描述)

A# All parts mixed/整体混测



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Test Result(s) / 检测结果:

The first fifteen Substances of Very High Concern (Released in Oct, 2008)

第一批15种SVHC (2008年10月公布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/报 告结果 (%)
					A#
1	Bis(tributyltin)oxide (TBTO) 三丁基氧化锡(TBTO)	56-35-9	200-268-0	0.005	N.D.
2	Diarsenic pentaoxide** 五氧化二砷**	1303-28-2	215-116-9	0.01	N.D.
3	Diarsenic trioxide** 三氧化二砷**	1327-53-3	215-481-4	0.01	N.D.
4	Triethyl arsenate** 三乙基砷酸酯**	15606-95-8	427-700-2	0.01	N.D.
5	Lead hydrogen arsenate** 砷酸氢铅**	7784-40-9	232-064-2	0.01	N.D.
6	Cobalt dichloride** 氯化钴**	7646-79-9	231-589-4	0.01	N.D.
7	Sodium dichromate ** 重铬酸钠**	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
8	Anthracene 蒽	120-12-7	204-371-1	0.005	N.D.
9	4,4'-Diaminodiphenylmethane (MDA) 4,4'-二氨基二苯基甲烷(MDA)	101-77-9	202-974-4	0.005	N.D.
10	Dibutyl phthalate (DBP) 邻苯二甲酸二丁酯 (DBP)	84-74-2	201-557-4	0.005	N.D.
11	Benzyl butyl phthalate (BBP) 邻苯二甲酸丁苄酯(BBP)	85-68-7	201-622-7	0.005	N.D.
12	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) 二甲苯麝香	81-15-2	201-329-4	0.005	N.D.
13	Di-2-ethylhexyl phthalate(DEHP) 邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	204-211-0	0.005	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/报 告结果 (%)
					A#
14	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified 六溴环十二烷及其主要同分异构体 (HBCDD)	25637-99-4, 3194-55-6 (134237-50-6 , 134237-51-7, 134237-52-8)	247-148-4, 221-695-9	0.005	N.D.
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) 短链氯化石蜡 (SCCP)	85535-84-8	287-476-5	0.01	N.D.

The second thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

第二批13种SVHC (2010年1月和3月公布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
16	Anthracene oil 蒽油	90640-80-5	292-602-7	0.05	N.D.
17	Anthracene oil, anthracene paste,distn. Lights 蒽油、蒽糊、轻油	91995-17-4	295-278-5	0.05	N.D.
18	Anthracene oil, anthracene paste,anthracene fraction 蒽油、蒽糊、蒽馏分	91995-15-2	295-275-9	0.05	N.D.
19	Anthracene oil, anthracene-low 蒽油、少蒽	90640-82-7	292-604-8	0.05	N.D.
20	Anthracene oil, anthracene paste 蒽油、蒽糊	90640-81-6	292-603-2	0.05	N.D.
21	Pitch, coal tar, high temp. 高温煤沥青	65996-93-2	266-028-2	0.05	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
22	Acrylamide 丙烯酰胺	79-06-1	201-173-7	0.01	N.D.
23	2,4-Dinitrotoluene 2,4-二硝基甲苯	121-14-2	204-450-0	0.01	N.D.
24	Diisobutyl phthalate (DIBP) 邻苯二甲酸二异丁酯(DIBP)	84-69-5	201-553-2	0.005	N.D.
25	Lead chromate** 铬酸铅**	7758-97-6	231-846-0	0.05	N.D.
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ** 钼铬酸铅红 (C.I.颜料红 104) **	12656-85-8	235-759-9	0.05	N.D.
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34) ** 铬酸铅黄 (C.I.颜料黄 34) **	1344-37-2	215-693-7	0.05	N.D.
28	Tris(2-chloroethyl)phosphate 三(2-氯乙基)磷酸盐	115-96-8	204-118-5	0.01	N.D.

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The third eight Substances of Very High Concern (Released in Jun, 2010)

第三批 8 种 SVHC (2010 年 6 月公布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
29	Trichloroethylene 三氯乙烯	79-01-6	201-167-4	0.005	N.D.
30	Boric acid** 硼酸**	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.01	N.D.
31	Disodium tetraborate, anhydrous** 四硼酸钠, 无水**	1330-43-4/ 12179-04-3/ 1303-96-4	215-540-4	0.01	N.D.
32	Tetraboron disodium heptaoxide, hydrate** 水合硼酸钠**	12267-73-1	235-541-3	0.01	N.D.
33	Sodium chromate** 铬酸钠**	7775-11-3	231-889-5	0.01	N.D.
34	Potassium chromate** 铬酸钾**	7789-00-6	232-140-5	0.01	N.D.
35	Ammonium dichromate** 重铬酸铵**	7789-09-5	232-143-1	0.01	N.D.
36	Potassium dichromate** 重铬酸钾**	7778-50-9	231-906-6	0.01	N.D.

The fourth eight Substances of Very High Concern (Released in Dec, 2010)

第四批 8 种 SVHC (2010 年 12 月公布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
37	Cobalt(II) sulphate** 硫酸钴**	10124-43-3	233-334-2	0.01	N.D.
38	Cobalt(II) dinitrate** 硝酸钴**	10141-05-6	233-402-1	0.01	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)	
					A#	
39	Cobalt(II) carbonate** 碳酸钴**	513-79-1	208-169-4	0.01	N.D.	
40	Cobalt(II) diacetate** 醋酸钴**	71-48-7	200-755-8	0.01	N.D.	
41	2-Methoxyethanol 乙二醇单甲醚	109-86-4	203-713-7	0.005	N.D.	
42	2-Ethoxyethanol 乙二醇单乙醚	110-80-5	203-804-1	0.005	N.D.	
43	Chromium trioxide** 三氧化铬**	1333-82-0	215-607-8	0.01	N.D.	
44	Acids generated from chromium trioxide and their oligomers 铬酸及其低聚物 产生的酸类:	Chromic acid** 铬酸**	7738-94-5	231-801-5	0.01	N.D.
		Dichromic acid** 重铬酸**	13530-68-2	236-881-5	0.01	N.D.
		Oligomers of chromic acid and dichromic acid** 铬酸和重铬酸的 低聚物**	--	--	0.01	N.D.

The fifth seven Substances of Very High Concern (Released in Jun, 2011)

第五批 7 种 SVHC (2011 年 6 月公布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
45	2-Ethoxyethyl acetate 乙二醇乙醚乙 酸酯	111-15-9	203-839-2	0.01	N.D.
46	Strontium chromate** 铬酸锶**	7789-06-2	232-142-6	0.01	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)* 邻苯二甲酸二(C7-11支链与直链)烷基 酯(DHNUP)*	68515-42-4	271-084-6	0.01	N.D.
48	Hydrazine 肼	7803-57-8/ 302-01-2	206-114-9	0.01	N.D.
49	1-Methyl-2-pyrrolidone N-甲基吡咯 烷酮	872-50-4	212-828-1	0.01	N.D.
50	1,2,3-Trichloropropane 1,2,3-三氯丙 烷	96-18-4	202-486-1	0.01	N.D.
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP) 邻苯二甲酸二(C6-8支链)烷基酯, 富 C7(DIHP)	71888-89-6	276-158-1	0.01	N.D.

The sixth twenty Substances of Very High Concern (Released in Dec, 2011)

第六批20种SVHC (2011年12月公布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
52	Dichromium tris(chromate)** 铬酸铬**	24613-89-6	246-356-2	0.01	N.D.
53	Potassium hydroxyoctaoxodizincatedichromate** 氢氧化铬酸锌钾**	11103-86-9	234-329-8	0.01	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
54	Pentazinc chromate octahydroxide** 铟黄(C.I.颜料黄 36)**	49663-84-5	256-418-0	0.01	N.D.
55	Aluminosilicate Refractory Ceramic Fibres (RCF)** 硅酸铝耐火陶瓷纤维(RCF)**	--	--	0.05	N.D.
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)** 氧化锆硅酸铝耐火陶瓷纤维 (Zr-RCF)**	--	--	0.05	N.D.
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA) 甲醛苯胺共聚物	25214-70-4	500-036-1	0.01	N.D.
58	Bis(2-methoxyethyl) phthalate (DMEP) 邻苯二甲酸二甲氧乙酯 (DMEP)	117-82-8	204-212-6	0.005	N.D.
59	2-Methoxyaniline; o-Anisidine 邻甲氧基苯胺	90-04-0	201-963-1	0.005	N.D.
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) 对特辛基苯酚	140-66-9	205-426-2	0.005	N.D.
61	1,2-Dichloroethane 1,2-二氯乙烷	107-06-2	203-458-1	0.005	N.D.
62	Bis(2-methoxyethyl) ether 双(2-甲氧基乙基)醚	111-96-6	203-924-4	0.005	N.D.
63	Arsenic acid** 砷酸**	7778-39-4	231-901-9	0.01	N.D.
64	Calcium arsenate** 砷酸钙**	7778-44-1	231-904-5	0.01	N.D.
65	Trilead diarsenate** 砷酸铅**	3687-31-8	222-979-5	0.01	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
66	N,N-dimethylacetamide (DMAC) N,N-二甲基乙酰胺(DMAC)	127-19-5	204-826-4	0.005	N.D.
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA) 2,2'-二氯-4,4'-二氨基二苯基甲烷 (MOCA)	101-14-4	202-918-9	0.005	N.D.
68	Phenolphthalein 酚酞	77-09-8	201-004-7	0.005	N.D.
69	Lead diazide Lead azide ** 叠氮化铅**	13424-46-9	236-542-1	0.01	N.D.
70	Lead styphnate** 2,4,6-三硝基苯二酚铅 (收敛酸铅)**	15245-44-0	239-290-0	0.01	N.D.
71	Lead dipicrate** 苦味酸铅**	6477-64-1	229-335-2	0.01	N.D.

The seventh thirteen Substances of Very High Concern (Released in Jun, 2012)

第七批13种SVHC (2012年6月公布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
72	1,2-bis(2-methoxyethoxy)ethane(TEG DME; triglyme) 三甘醇二甲醚 (TEGDME)	112-49-2	203-977-3	0.01	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) 1,2-二甲氧 基乙烷 (EGDME)	110-71-4	203-794-9	0.01	N.D.
74	Diboron trioxide** 三氧化二硼**	1303-86-2	215-125-8	0.01	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
75	Formamide 甲酰胺	75-12-7	200-842-0	0.01	N.D.
76	Lead(II) bis(methanesulfonate) ** 甲基磺酸铅Lead(II) **	17570-76-2	401-750-5	0.01	N.D.
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazin e-2,4,6(1H,3H,5H)-trione) 1,3,5-三缩水甘油-S-三嗪三酮;异氰尿 酸三缩水甘油酯 (TGIC)	2451-62-9	219-514-3	0.01	N.D.
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 1,3,5-三(环氧乙烷基甲基)-1,3,5-三嗪 -2,4,6-(1H,3H,5H)-三酮立体异构体	59653-74-6	423-400-0	0.01	N.D.
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone) 4,4'-二(N,N-二甲氨基)二苯甲酮	90-94-8	202-027-5	0.01	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedi aniline (Michler's base) N,N,N',N'-四甲基-4,4'-二氨基二苯甲酮	101-61-1	202-959-2	0.01	N.D.
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa- 2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) 碱性紫3	548-62-9	208-953-6	0.01	N.D.

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					A#
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) 碱性蓝26	2580-56-5	219-943-6	0.01	N.D.
83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) 溶剂蓝4	6786-83-0	229-851-8	0.01	N.D.
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol α,α -二[(二甲氨基)苯基]-4-甲氨基苯甲醇	561-41-1	209-218-2	0.01	N.D.

The eighth fifty-four Substances of Very High Concern (Released in Dec, 2012)

第八批54种SVHC (2012年12月公布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
85	Bis(pentabromophenyl) ether (DecaBDE) 十溴联苯醚	1163-19-5	214-604-9	0.05	N.D.
86	Pentacosafuorotridecanoic acid 全氟十三酸	72629-94-8	276-745-2	0.05	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
87	Tricosafuorododecanoic acid 全氟十二酸	307-55-1	206-203-2	0.05	N.D.
88	Henicosafuoroundecanoic acid 全氟十一烷酸	2058-94-8	218-165-4	0.05	N.D.
89	Heptacosafuorotetradecanoic acid 全氟十四酸	376-06-7	206-803-4	0.05	N.D.
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues 对特辛基苯酚乙氧基醚(包括界定明确的 物质以及UVCB物质、聚合物和同系物)	--	--	0.05	N.D.
91	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof 4-壬基苯酚, 支链和直链	--	--	0.05	N.D.
92	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide)) 偶氮二甲酰胺	123-77-3	204-650-8	0.05	N.D.
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) 六氢邻苯二甲酸酐	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.05	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
94	Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride 甲基六氢苯酐、4-甲基六氢苯酐、甲基六 氢化邻苯二甲酸酐、 3-甲基六氢苯二甲酯酐	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.05	N.D.
95	Methoxy acetic acid 甲氧基乙酸	625-45-6	210-894-6	0.05	N.D.
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear 支链和直链1, 2-苯二羧二戊酯	84777-06-0	284-032-2	0.05	N.D.
97	Diisopentylphthalate (DIPP) 邻苯二甲酸二异戊酯(DIPP)	605-50-5	210-088-4	0.05	N.D.
98	N-pentyl-isopentylphthalate 邻苯二甲酸正戊基异戊基酯	776297-69-9	--	0.05	N.D.
99	1,2-Diethoxyethane 乙二醇二乙醚	629-14-1	211-076-1	0.05	N.D.
100	N,N-dimethylformamide; dimethyl formamide N,N-二甲基甲酰胺	68-12-2	200-679-5	0.05	N.D.
101	Dibutyltin dichloride (DBTC) 二丁基二氯化锡 (DBTC)	683-18-1	211-670-0	0.01	N.D.
102	Acetic acid, lead salt, basic** 碱式乙酸铅**	51404-69-4	257-175-3	0.01	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) ** 碱式碳酸铅**	1319-46-6	215-290-6	0.01	N.D.
104	Lead oxide sulfate (basic lead sulfate) ** 碱式硫酸铅**	12036-76-9	234-853-7	0.01	N.D.
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) ** [1,2-苯二羧酸根合]三氧化二铅**	69011-06-9	273-688-5	0.01	N.D.
106	Dioxobis(stearato)trilead** 双(十八酸基)二氧代三铅**	12578-12-0	235-702-8	0.01	N.D.
107	Fatty acids, C16-18, lead salts** C16-18-脂肪酸铅盐**	91031-62-8	292-966-7	0.01	N.D.
108	Lead bis(tetrafluoroborate) ** 四氟硼酸铅**	13814-96-5	237-486-0	0.01	N.D.
109	Lead cyanamidate** 氨基氰铅盐**	20837-86-9	244-073-9	0.01	N.D.
110	Lead dinitrate** 硝酸铅**	10099-74-8	233-245-9	0.01	N.D.
111	Lead oxide (lead monoxide) ** 氧化铅**	1317-36-8	215-267-0	0.01	N.D.
112	Lead tetroxide (orange lead) ** 四氧化三铅, 铅丹**	1314-41-6	215-235-6	0.01	N.D.
113	Lead titanium trioxide** 钛酸铅**	12060-00-3	235-038-9	0.01	N.D.
114	Lead Titanium Zirconium Oxide** 钛酸铅锆**	12626-81-2	235-727-4	0.01	N.D.
115	Pentalead tetraoxide sulphate** 氧化铅与硫酸铅的复合物**	12065-90-6	235-067-7	0.01	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
116	Pyrochlore, antimony lead yellow** C.I.颜料黄41**	8012 -00-8	232-382-1	0.01	N.D.
117	Silicic acid, barium salt, lead-doped** 铅掺杂的硅钡酸盐**	68784-75-8	272-271-5	0.01	N.D.
118	Silicic acid, lead salt** 硅酸铅**	11120-22-2	234-363-3	0.01	N.D.
119	Sulfurous acid, lead salt, dibasic** 亚硫酸铅 (II) **	62229-08-7	263-467-1	0.01	N.D.
120	Tetraethyllead** 四乙基铅**	78-00-2	201-075-4	0.01	N.D.
121	Tetralead trioxide sulphate** 三碱式硫酸铅**	12202-17-4	235-380-9	0.01	N.D.
122	Trilead dioxide phosphonate** 磷酸氧化铅**	12141-20-7	235-252-2	0.01	N.D.
123	Furan 呋喃	110-00-9	203-727-3	0.05	N.D.
124	Propylene oxide; 1,2-epoxypropane; methyloxirane 环氧丙烷	75-56-9	200-879-2	0.05	N.D.
125	Diethyl sulphate 硫酸二乙酯	64-67-5	200-589-6	0.05	N.D.
126	Dimethyl sulphate 硫酸二甲酯	77-78-1	201-058-1	0.05	N.D.
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine 3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	421-150-7	0.05	N.D.
128	Dinoseb 地乐酚 (二硝丁酚)	88-85-7	201-861-7	0.05	N.D.
129	4,4'-methylenedi-o-toluidine 4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	212-658-8	0.05	N.D.
130	4,4'-oxydianiline and its salts 4,4'-二氨基二苯醚	101-80-4	202-977-0	0.05	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
131	4-Aminoazobenzene; 4-Phenylazoaniline 4-氨基偶氮苯	60-09-3	200-453-6	0.05	N.D.
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine) 2,4-二氨基甲苯	95-80-7	202-453-1	0.05	N.D.
133	6-methoxy-m-toluidine (p-cresidine) 2-甲氧基-5-甲基苯胺	120-71-8	204-419-1	0.05	N.D.
134	Biphenyl-4-ylamine 4-氨基联苯	92-67-1	202-177-1	0.05	N.D.
135	o-aminoazotoluene 邻氨基偶氮甲苯	97-56-3	202-591-2	0.05	N.D.
136	o-Toluidine; 2-Aminotoluene 邻甲基苯胺	95-53-4	202-429-0	0.05	N.D.
137	N-methylacetamide N-甲基乙酰胺	79-16-3	201-182-6	0.05	N.D.
138	1-bromopropane; n-propyl bromide 溴代正丙烷	106-94-5	203-445-0	0.05	N.D.

The ninth six Substances of Very High Concern (Released in Jun, 2013)

第九批 6 种 SVHC (2013 年 6 月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
139	Cadmium ** 镉**	7440-43-9	231-152-8	0.01	N.D.
140	Cadmium oxide ** 氧化镉**	1306-19-0	215-146-2	0.01	N.D.
141	Dipentyl phthalate (DPP) 邻苯二甲酸二正戊酯 (DPP)	131-18-0	205-017-9	0.01	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues] 4-壬基酚乙氧基醚, 直链或支链	/	/	0.05	N.D.
143	Ammonium pentadecafluorooctanoate (APFO) 全氟辛酸铵(APFO)	3825-26-1	223-320-4	0.01	N.D.
144	Pentadecafluorooctanoic acid (PFOA) 全氟辛酸(PFOA)	335-67-1	206-397-9	0.01	N.D.

The tenth seven Substances of Very High Concern (Released in Dec, 2013)

第十批7种SVHC (2013年12月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
145	Cadmium sulphide** 硫化镉**	1306-23-6	215-147-8	0.01	N.D.
146	Diethyl phthalate 邻苯二甲酸二己酯	84-75-3	201-559-5	0.01	N.D.
147	C.I. Direct Red 28 直接红28	573-58-0	209-358-4	0.01	N.D.
148	C.I. Direct Black 38 直接黑 38	1937-37-7	217-710-3	0.01	N.D.
149	2-imidazoline-2-thiol 1,2-亚乙基硫脲	96-45-7	202-506-9	0.01	N.D.



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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
150	Lead di(acetate)** 乙酸铅**	301-04-2	206-104-4	0.01	N.D.
151	Trixylyl phosphate 磷酸三(二甲苯)酯	25155-23-1	246-677-8	0.01	N.D.

The eleventh four Substances of Very High Concern (Released in Jun, 2014)
第十一批4种SVHC (2014年6月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 邻苯二甲酸二己酯, 支链和直链	68515-50-4	271-093-5	0.01	N.D.
153	Cadmium chloride** 氯化镉**	10108-64-2	233-296-7	0.01	N.D.
154	Sodium perborate; perboric acid, sodium salt** 过硼酸钠; 过硼酸钠盐**	-	239-172-9; 234-390-0	0.01	N.D.
155	Sodium peroxometaborate** 高硼酸钠**	7632-04-4	231-556-4	0.01	N.D.

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The Twelfth six Substances of Very High Concern (Released in Dec, 2014)

第十二批6种SVHC(2014年12月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
156	Cadmium fluoride** 氟化镉**	7790-79-6	232-222-0	0.01	N.D.
157	Cadmium sulphate** 硫酸镉**	10124-36-4, 31119-53-6	233-331-6	0.01	N.D.
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) UV320(紫外线吸收剂UV-320)	3846-71-7	223-346-6	0.05	N.D.
159	2-(2H-benzotriazol-2-yl)-4,6-ditertbutylphenol (UV-328) UV328 (紫外线吸收剂UV-328)	25973-55-1	247-284-8	0.05	N.D.
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate (DOTE) DOTE (硫代甘醇酸异辛酯二正辛基锡)	15571-58-1	239-622-4	0.01	N.D.
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2- -oxoethyl]thio]-4-octyl-7-oxo-8-oxa- 3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) DOTE 和MOTE 反应产物	--	--	0.05	N.D.

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The Thirteenth two Substances of Very High Concern (Released in Jun, 2015)

第十三批 2 种 SVHC (2015 年 6 月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters 1,2-苯二羧酸, 二-碳6-10-烷基酯	68515-51-5, 68648-93-1	271-094-0 272-013-1	0.05	N.D.
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] 5-仲丁基-丁基-2-(2,4-二甲基cyclohex环己胺-3-乙二胺-1-基)-5-甲基-1,3-二氧乙烷, 5-仲丁基-丁基-2-(4,6-二甲基cyclohex环己胺-3-乙二胺-1-基)-5-甲基-1,3-二氧乙烷	--	--	0.05	N.D.

The Fourteen five Substances of Very High Concern (Released in Dec, 2015)

第十四批 5 种 SVHC (2015 年 12 月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
164	Nitrobenzene 硝基苯	98-95-3	202-716-0	0.05	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results/ 报告结果 (%)
					A#
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-1-2-yl)phenol (UV-327) 2,4-二-叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(UV-327)	3864-99-1	223-383-8	0.05	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) 2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑(UV-350)	36437-37-3	253-037-1	0.05	N.D.
167	1,3-propanesultone 1,3-丙烷磺内酯	1120-71-4	214-317-9	0.05	N.D.
168	Perfluorononan-1-oic acid and its sodium and ammonium salts 全氟壬酸及其钠和铵盐	375-95-1 21049-39-8 4149-60-4	206-801-3	0.05	N.D.

The Fifteen one Substance of Very High Concern (Released in Jun, 2016)

第十五批 1 种 SVHC (2016 年 6 月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit /报告 限 (%)	Report Results 报告结果 (%)
					A#
169	Benzo[def]chrysene (Benzo[a]pyrene) 苯并[def]蒽 (苯并[a]蒽)	50-32-8	200-028-5	0.005	N.D.

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The Sixteen four Substance of Very High Concern (Released in Jan, 2017)

第十六批 4 种 SVHC (2017 年 1 月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit/报告 限 (%)	Report Results 报告结果 (%)
					A#
170	4,4'-isopropylidenediphenol (bisphenol A) 双酚A(BPA)	80-05-7	201-245-8	0.005	N.D.
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts 全氟癸酸(PFDA) 及其钠盐和铵盐	335-76-2 3830-45-3 3108-42-7	206-400-3 - 221-470-5	0.005	N.D.
172	p-(1,1-dimethylpropyl)phenol 对叔戊基苯酚	80-46-6	201-280-9	0.005	N.D.
173	4-heptylphenol, branched and linear (4-HPbl) 4-庚基苯酚,支链和直链(4-HPbl)	-	-	0.005	N.D.

The Seventeen one Substance of Very High Concern (Released in Jul, 2017)

第十七批 1 种 SVHC (2017 年 7 月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit/报告 限 (%)	Report Results 报告结果 (%)
					A#
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS) 全氟己基磺酸及其盐类(PFHxS)	-	-	0.005	N.D.

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第十八批 7 种 SVHC (2018 年 01 月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit/报告 限 (%)	Report Results 报告结果 (%)
					A#
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof] 德克隆(包括所有反式和顺式异构体及其组合)	-	-	0.0005	N.D.
176	Benz[a]anthracene 苯并(a)蒽	56-55-3, 1718-53-2	200-280-6	0.005	N.D.
177	Cadmium nitrate** 硝酸镉**	10022-68-1, 10325-94-7	233-710-6	0.01	N.D.
178	Cadmium carbonate** 碳酸镉**	513-78-0	208-168-9	0.01	N.D.
179	Cadmium hydroxide** 氢氧化镉**	21041-95-2	244-168-5	0.01	N.D.
180	Chrysene 屈	218-01-9, 1719-03-5	205-923-4	0.005	N.D.
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear] 1,3,4-噻二唑烷-2,5-二硫酮, 甲醛和 4-庚基苯酚的支链和直链(RP-HP)的反应产物(4-庚基苯酚、支链和直链质量比≥0.1%)	-	-	0.0005	N.D.

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The Nineteen ten Substances of Very High Concern (Released in Jun, 2018)

第十九批 10种 SVHC (2018年06月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit/ 报告限 (%)	Report Results 报告结果(%)
					A#
182	Octamethylcyclotetrasiloxane (D4) 八甲基环四硅氧烷(D4)	556-67-2	209-136-7	0.01	N.D.
183	Decamethylcyclopentasiloxane (D5) 十甲基环五硅氧烷(D5)	541-02-6	208-764-9	0.01	N.D.
184	Dodecamethylcyclohexasiloxane (D6) 十二甲基环六硅氧烷(D6)	540-97-6	208-762-8	0.01	N.D.
185	Lead** 铅**	7439-92-1	231-100-4	0.01	N.D.
186	Disodium octaborate** 八硼酸二钠**	12008-41-2	234-541-0	0.01	N.D.
187	Benzo[ghi]perylene 苯并[g,h,i]芘	191-24-2	205-883-8	0.01	N.D.
188	Terphenyl hydrogenated 氢化三联苯	61788-32-7	262-967-7	0.01	N.D.
189	Ethylenediamine (EDA) 乙二胺(EDA)	107-15-3	203-468-6	0.01	N.D.
190	Trimellitic anhydride (TMA) 偏苯三酸酐(TMA)	552-30-7	209-008-0	0.01	N.D.
191	Dicyclohexyl phthalate (DCHP) 邻苯二甲酸二环己酯(DCHP)	84-61-7	201-545-9	0.01	N.D.

The Twenty six Substances of Very High Concern (Released in Jan, 2019)

第二批 6种 SVHC (2019年01月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit/ 报告限 (%)	Report Results 报告结果(%)
					A#
192	Pyrene 芘	129-00-0	204-927-3	0.01	N.D.

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Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit/报 告限 (%)	Report Results 报告结果(%)
					A#
193	Phenanthrene 菲	85-01-8	201-581-5	0.01	N.D.
194	Fluoranthene 荧蒽	206-44-0	205-912-4	0.01	N.D.
195	Benzo[k]fluoranthene 苯并[k]荧蒽	207-08-9	205-916-6	0.01	N.D.
196	2,2-bis(4'-hydroxyphenyl)-4-methylpen tane (Bisphenol P) 2,2'-二(4-羟基苯基)-4-甲基戊烷 (双酚 P)	6807-17-6	401-720-1	0.01	N.D.
197	1,7,7-trimethyl-3-(phenylmethylene)bic yclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC) 1,7,7-三甲基-3-(苯亚甲基)双环[2.2.1] 庚烷-2-酮	15087-24-8	239-139-9	0.01	N.D.

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第二十一批 4 种 SVHC (2019 年 07 月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit/报 告限 (%)	Report Results 报告结果(%)
					A#
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) 三(壬基苯基, 支链和直链)亚磷酸酯 (TNPP), 含有 $\geq 0.1\%$ w/w 的 4-壬基酚, 支链和直链 (4-NP)	-	-	0.01	N.D.
199	4-tert-butylphenol 4-叔丁基苯酚	98-54-4	202-679-0	0.01	N.D.
200	2-methoxyethyl acetate 乙酸 2-甲氧基乙酯	110-49-6	203-772-9	0.01	N.D.
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) 2,3,3,3-四氟-2-(七氟丙氧基)丙酸, 其盐类和酰卤(包括它们各自的异构体及其组合)	-	-	0.01	N.D.

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The Twenty two Substances of Very High Concern (Released in Jan, 2020)
第二十二批 4 种 SVHC (2020 年 01 月发布)

Code 序号	Test Item 项目	CAS No.	EC No.	Report Limit/报 告限 (%)	Report Results 报告结果(%)
					A#
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone 2-苄基-2-二甲氨基-1-(4-吗啉苯基)丁酮	119313-12-1	404-360-3	0.01	N.D.
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one 光引发剂 907	71868-10-5	400-600-6	0.01	N.D.
204	Diisohexyl phthalate 1,2-苯二羧酸二异己酯	71850-09-4	276-090-2	0.01	N.D.
205	Perfluorobutane sulfonic acid (PFBS) and its salts 全氟丁烷磺酸(PFBS)盐	-	-	0.01	N.D.

Note: (备注)

1. mg/kg = ppm = 10⁻⁶
2. % = w/w
3. N.D. : < Report Limit
N.D. : < 报告限
4. *The detected DHNUP are consisted of six phthalates which CAS number are 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0. according to the Annex 15 of REACH.
*所测的 DHNUP 依据 REACH 附件 15, 主要包括 CAS 号为 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 和 111381-91-0 的六种邻苯二甲酸酯。
5. ** According to the 5.2.1 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.
**依据 ECHA "物品中的物质要求指南" -2011 年第二版第 5.2.1 条规定, 所采用的测试方法只能得到样品中含有的元素而不是物质, 当需要时则对样品中的物质的甄选和鉴别进行进一步测试。

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6. Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily “the substance” which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the second version of ECHA “Guidance on requirements for substances in articles”, 2011.

报告结果: 依据 ECHA “物品中的物质要求指南”-2011 年第二版第 5.2 条: 基于大多数情况下测试方法鉴别的是样品中的化学组成, 而不一定是产品生产过程中原始添加的物质, 以及专业咨询, 产品资料信息, 测试过程, 材料特性, SVHC 特性和化学分析等手段评估而得到。

7. Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA “Guidance on requirements for substances in articles”.

报告限: 根据不确定度和 0.1% 的报告阈值以及 ECHA “物品中的物质要求指南”规定而得到。

8. #=According to the applicant's request, the admixture of specimen A is tested as a whole. The testing results of specimen A may be different from that of any sole material in specimen A.

根据客户的要求, 对样品 A 进行混测。样品 A 的测试结果可能与单测样品 A 中任何一种材料的结果有差异。

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Appendix: (附加信息)

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. 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) 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.

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) 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) 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. 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.

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. 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.

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:



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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.

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) 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.

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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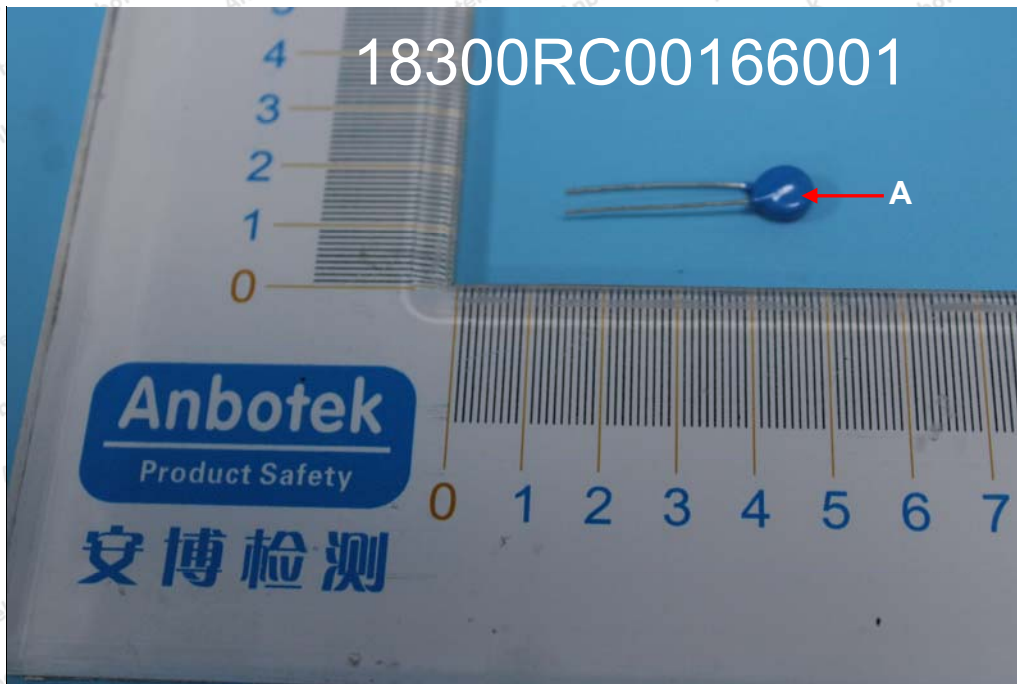
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Photograph of Sample

样品图片



***** End of Report *****

***** 报告结束 *****

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