



检测报告(Test Report)

检测报告编号(Report No.): SZC17120580181

日期(Date): 2017/12/12 页数(Page): 1 of 22

委托单位: 佛山市顺德区科晟电子有限公司

Applicant: SHUNDE KESHENG ELECTRONIC CO.,LTD

单位地址: 佛山市顺德区伦教第一集约工业区荔奇北路之一

Address: Address: No.1 Liqi North Road, Industry City of Lunjiao, Shunde, Guangdong 528308, P. R. China

样品信息(Sample information)

样品名称(Sample Name): 家用电器风机电容器

样品描述(Sample Description): 请参见后续页(Please refer to following page(s).)

样品型号(Sample Model): 450VAC/3uF P2 P/N: 17400101000084

样品材质(Sample Material): 金属+环氧树脂+塑胶

样品编号(Sample No.): QT1712058018101

委托日期(Sample Received Date): 2017/12/5

检测日期(Testing Period): 2017/12/5 - 2017/12/11

检测方法(Test Method): 请参见后续页(Please refer to following page(s).)

检测结果(Test Result): 请参见后续页(Please refer to following page(s).)

检测要求(Test Requested):	结论(Conclusion)
1.根据客户要求, 参照客户限值, 检测其送检样品中邻苯二甲酸二异壬酯(DINP)的含量(As specified by client, to determine the Di-isononyl phthalate (DINP) content in the submitted sample with reference to client's limit.).	合格(PASS)
2.根据客户要求, 参照法规(EC) No 1907/2006 (REACH), 筛选 174 项高关注物质(SVHC), 物质清单为欧盟化学品管理局(ECHA)于2017年7月7日公布的清单(As specified by client, refer to EU Regulation (EC) No 1907/2006 (REACH), to screen one hundred and seventy-four (174) Substances of Very High Concern (SVHC) in the submitted sample. The list is the one that is published by European Chemicals Administration (ECHA) on July 7, 2017.).	小于 0.1% (LESS THAN 0.1%)
3.根据客户要求, 筛选 9 项公众评议的高关注物质(SVHC), 物质清单为欧盟化学品管理局(ECHA)于2017年9月5日公布的清单(As specified by client, to screen proposed nine(9) Substances of Very High Concern (SVHC) in the submitted sample. The list is the one that is published by European Chemicals Administration (ECHA) on Sep. 5, 2017.).	小于 0.1% (LESS THAN 0.1%)

审核人
Checked by

Angela

Angela

授权签字人

Signed for and on behalf of HCT

Michael

Michael

实验室经理

Laboratory Manager





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序号 No.	样品描述(Sample Description):
1	白印灰色塑胶外壳(White printed gray plastic shell)
2	黑色树脂(Black resin)
3	银色塑胶膜(Silvery plastic film)
4	银色金属引脚(Silvery metal pin)
5	银色金属焊锡(Silvery metal soldring tin)

检测结果(Test Result(s)):

1. 邻苯二甲酸二异壬酯(DINP)的含量(Di-isononyl phthalate (DINP) content)

单位(Unit): mg/kg

检测项目 (Test Item)	检测方法/仪器 (Test Method/Equipment)	方法检出限 (MDL)	含量(Content)	客户限值 (Client's Limit)
			(1+2+3)#	
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP)	参考(Refer to) CPSC-CH-C1001-09.3 GC-MS	100	N.D.	600

备注(Note):

mg/kg = ppm=parts per million

MDL=Method Detection Limit 方法检出限

N.D.=Not Detected (less than method detection limit), 未检出 (小于方法检出限)

#=As specified by client, the submitted samples were mixed to test.

根据客户要求, 对样品进行混合测试。





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(SVHC)

检测样品(Tested Sample):

检测样品描述(Tested sample description):

样品编号(Sample No.)	样品描述(Sample Description)
QT1712058018101	1. 白印灰色塑胶外壳(White printed gray plastic shell) 2. 黑色树脂(Black resin) 3. 银色塑胶膜(Silvery plastic film) 4. 银色金属引脚(Silvery metal pin) 5. 银色金属焊锡(Silvery metal soldring tin)

检测方法(Test Method):

HCT 内部方法 HCT/SZ-SOP-YJ-PI022, 采用 ICP-OES/GC-MS(HS)/HPLC-DAD-MS/IC/AAS/UV-VIS 分析。

(HCT In-house method HCT/SZ-SOP-YJ-PI022, Analysis was performed by ICP-OES/GC-MS (HS)/HPLC-DAD-MS/IC/AAS/UV-VIS.)

检测结果(Test Result(s)):

1. 物质清单中 SVHC 的检测结果(Test results of Substances in candidate list of SVHC) 单位(Unit): %

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit	结果 Result(s)	
						(1+2+3)#	(4+5)#
/	/	SVHC 物质清单中的所有物质 (All tested SVHC in candidate list)	/	/	/	N.D.	N.D.

2. 9 项评议 SVHC 的检测结果(Test results of proposed 9 SVHC) 单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit	结果 Result(s)	
					(1+2+3)#	(4+5)#
1~9	9 项评议 SVHC (Proposed 9 SVHC)	/	/	/	N.D.	N.D.

注释(Note):

-N.D.= Not Detected (<report limit), 未检出 (小于报告限)

-0.1%=1000mg/kg

-mg/kg=ppm=parts per million

- SVHC 中的物质清单见后续页(Substances in candidate list of SVHC please refer to following page(s).)

-三氧化二硼、硼酸、无水四硼酸钠、水合硼酸钠、四氟硼酸铅、过硼酸钠、水合高硼酸钠盐类的结果由 ICP-OES 检测的水提取的硼元素结果换算得出。The test results of Diboron trioxide, Boric acid, Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate, Lead bis(tetrafluoroborate), Sodium peroxometaborate and Sodium perborate; perboric acid, sodium salt were based on the water extraction content of Boron.





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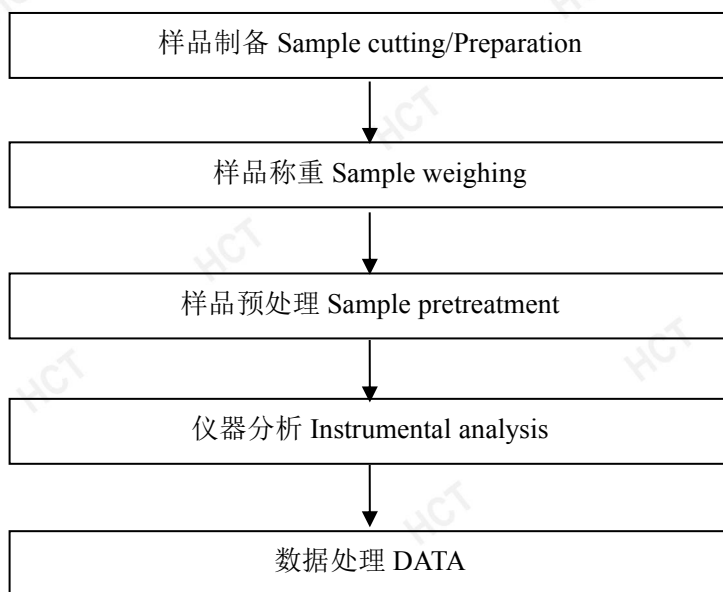
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备注(Remarks):

1. 以上物质的结果值是基于最坏的情况鉴定, 建议做进一步的调查确定样品中是否含有相关物质。As the Result of above substance that identified is based on the worst case scenario. Further investigation is required for confirmation of the presence of the substance in the sample.
2. 其报告限是针对其代表性物质之评估。
The report limit is evaluated based on the representative substances.

检测流程图(Test Flow Chart)



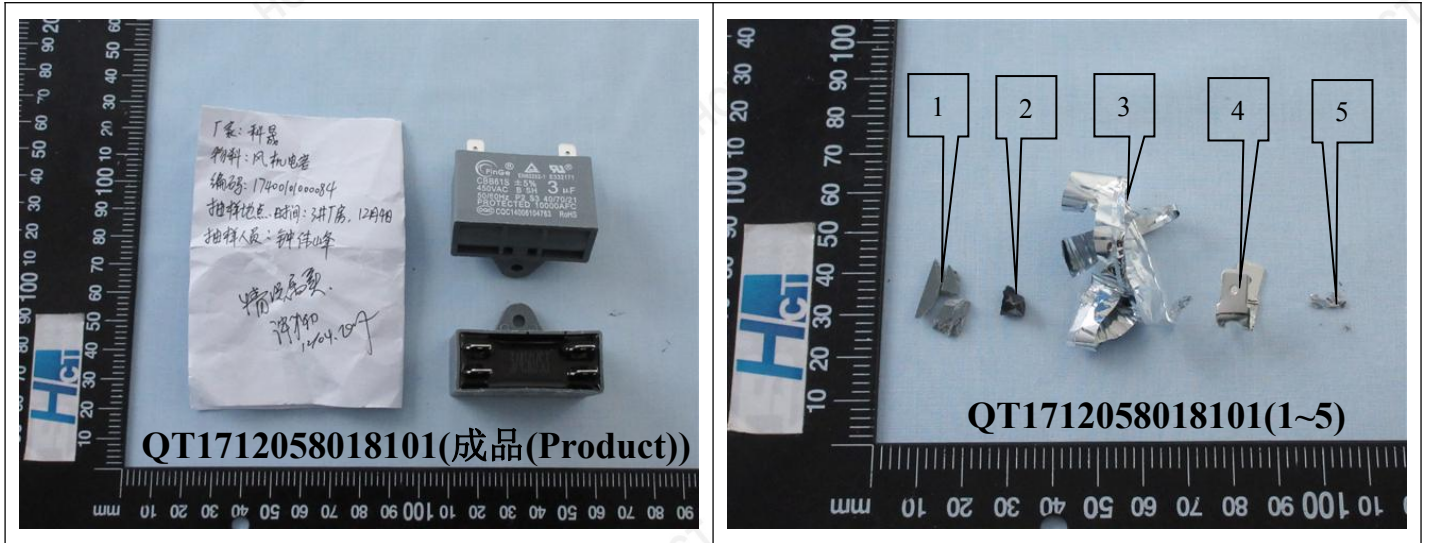
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样品附图(The photo of the sample)





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所有检测的 SVHC 清单(Full list of tested SVHC):

第一批 15 种 SVHC (2008 年 10 月公布) (The first 15 SVHC(Announced in October, 2008))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
1	蒽 Anthracene	120-12-7	204-371-1	0.0100
2	4, 4'-二氨基二苯甲烷 4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	0.0100
3	邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.0100
4	邻苯二甲酸二(2-乙基己基)酯 Di-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	204-211-0	0.0100
5	邻苯二甲酸丁苄酯 Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.0100
6	三丁基氧化锡 Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	0.0100
7	2,4,6-三硝基-3,3-二甲基-5-叔丁基苯(二甲苯麝香) 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.0100
8	六溴环十二烷 Hexabromocyclododecane and all major diastereoisomers identified:(α -HBCDD, β -HBCDD, γ -HBCDD) (HBCDD)	25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4/ 221-695-9	0.0100
9	短链氯化石蜡 Short Chain Chlorinated Paraffins (SCCPs)	85535-84-8	287-476-5	0.0100
10	砷酸氢铅* Lead hydrogen arsenate*	7784-40-9	232-064-2	0.0100
11	三乙基砷酸酯* Triethyl arsenate*	15606-95-8	427-700-2	0.0100
12	五氧化二砷* Diarsenic pentaoxide*	1303-28-2	215-116-9	0.0100
13	三氧化二砷* Diarsenic trioxide*	1327-53-3	215-481-4	0.0100
14	二氯化钴* Cobalt dichloride*	7646-79-9	231-589-4	0.0100
15	重铬酸钠* Sodium dichromate*	7789-12-0, 10588-01-9	234-190-3	0.0100





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第二批 13 种 SVHC (2010 年 1 月和 3 月公布) (The second 13 SVHC(Announced in January and March, 2010))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
16	①蒽油 Anthracene oil	90640-80-5	292-602-7	0.0100
17	①蒽油, 蒽糊, 轻油**** ①Anthracene oil, anthracene paste, distn. Lights****	91995-17-4	295-278-5	0.0100
18	①蒽油, 蒽糊, 蒽馏分 ①Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.0100
19	①蒽油, 含蒽量少 ①Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.0100
20	①蒽油, 蒽糊 ①Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.0100
21	邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.0100
22	2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2	204-450-0	0.0100
23	②铬酸铅 ②Lead chromate	7758-97-6	231-846-0	0.0100
24	②钼铬红 (C.I.颜料红 104) *** ②Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ***	12656-85-8	235-759-9	0.0100
25	②铅铬黄 (C.I.颜料黄 34) *** ②Lead sulfochromate yellow(C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.0100
26	①煤焦油沥青, 高温 ①Pitch, coal tar, high temperature	65996-93-2	266-028-2	0.0100
27	磷酸三(2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.0100
28	丙烯酰胺 Acrylamide	79-06-1	201-173-7	0.0100





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第三批 8 种 SVHC (2010 年 6 月公布) (The third 8 SVHC(Announced in June, 2010))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
29	三氯乙烯 Trichloroethylene	79-01-6	201-167-4	0.0100
30	硼酸* Boric acid*	10043-35-3/ 11113-50-1	233-139-2 234-343-4	0.0100
31	无水四硼酸钠* Disodium tetraborate, anhydrous*	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.0100
32	水合硼酸钠* Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.0100
33	铬酸钠* Sodium chromate*	7775-11-3	231-889-5	0.0100
34	铬酸钾* Potassium chromate*	7789-00-6	232-140-5	0.0100
35	重铬酸铵* Ammonium dichromate*	7789-09-5	232-143-1	0.0100
36	重铬酸钾* Potassium dichromate*	7778-50-9	231-906-6	0.0100

第四批 8 种 SVHC (2010 年 12 月公布) (The fourth 8 SVHC(Announced in December,2010))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
37	三氧化铬* Chromium trioxide*	1333-82-0	215-607-8	0.0100
38	2-甲氧基乙醇 2-Methoxyethanol	109-86-4	203-713-7	0.0100
39	2-乙氧基乙醇 2-Ethoxyethanol	110-80-5	203-804-1	0.0100
40	醋酸钴* Cobalt(II) diacetate*	71-48-7	200-755-8	0.0100
41	碳酸钴* Cobalt(II) carbonate*	513-79-1	208-169-4	0.0100
42	硝酸钴* Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.0100
43	硫酸钴* Cobalt(II) sulphate*	10124-43-3	233-334-2	0.0100
44	三氧化铬及其低聚物产生的酸: * 铬酸 重铬酸 铬酸及重铬酸的低聚物 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	0.0100





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第五批 7 种 SVHC (2011 年 6 月公布) (The fifth 7 SVHC(Announced in June, 2011))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
45	乙二醇乙醚乙酸酯 (2-EEA)2-ethoxyethyl acetate	111-15-9	203-839-2	0.0100
46	铬酸锶*strontium chromate*	7789-06-2	232-142-6	0.0100
47	①邻苯二甲酸二(C7-11 支链与直链)烷基酯 (DHNUP) ①1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.0100
48	肼 Hydrazine	7803-57-8 302-01-2	206-114-9	0.0100
49	1-甲基-2-吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.0100
50	1,2,3-三氯丙烷 1,2,3-trichloropropane	96-18-4	202-486-1	0.0100
51	①邻苯二甲酸二 (C6-8 支链与直链)烷基酯, 富 C7 链 (DIHP) ①1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.0100

第六批 20 种 SVHC (2011 年 12 月公布) (The sixth 20 SVHC(Announced in December, 2011))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
52	②硅酸铝耐火陶瓷纤维 ②Aluminosilicate, Refractory Ceramic Fibres	—	650-017-00-8**	0.0100
53	②氧化锆硅酸铝耐火陶瓷纤维 ②Zirconia Aluminosilicate, Refractory Ceramic Fibres	—	650-017-00-8**	0.0100
54	铬酸铬* Dichromium tris(chromate) *	24613-89-6	246-356-2	0.0100
55	氢氧化铬酸锌钾* Potassium hydroxyoctaoxodizincate di-chromate*	11103-86-9	234-329-8	0.0100





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序号 No.	物质名称 Substance Name(s)	CAS号 CAS No.	EC号 EC No.	报告限 Report Limit
56	锌黄(C.I.颜料黄 36)*** Pentazinc chromate octahydroxide (C.I. pigment yellow 36)***	49663-84-5	256-418-0	0.0100
57	甲醛苯胺共聚物 Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.0100
58	邻苯二甲酸二甲氧乙酯 Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	204-212-6	0.0100
59	邻氨基苯甲醚 2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.0100
60	对特辛基苯酚 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol)	140-66-9	205-426-2	0.0100
61	1,2-二氯乙烷 1,2-Dichloroethane	107-06-2	203-458-1	0.0100
62	二乙二醇二甲醚 Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.0100
63	砷酸*Arsenic acid*	7778-39-4	231-901-9	0.0100
64	砷酸钙*Calcium arsenate*	7778-44-1	231-904-5	0.0100
65	砷酸铅*Trilead diarsenate*	3687-31-8	222-979-5	0.0100
66	N,N-二甲基乙酰胺 N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.0100
67	酚酞 Phenolphthalein	77-09-8	201-004-7	0.0100
68	4,4'-亚甲基双-2-氯苯胺 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.0100
69	叠氮化铅*Lead azide; Lead diazide*	13424-46-9	236-542-1	0.0100
70	2,4,6-三硝基苯二酚铅*Lead styphnate*	15245-44-0	239-290-0	0.0100
71	苦味酸铅*Lead dipicrate*	6477-64-1	229-335-2	0.0100





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第七批 13 种 SVHC (2012 年 6 月公布) (The seventh 13 SVHC(Announced in June, 2012))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
72	三甘醇二甲醚 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.0100
73	1,2-二甲氧基乙烷 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.0100
74	三氧化二硼*Diboron trioxide*	1303-86-2	215-125-8	0.0100
75	甲酰胺 Formamide	75-12-7	200-842-0	0.0100
76	甲磺酸铅 (II)* Lead(II)bis(methanesulfonate)*	17570-76-2	401-750-5	0.0100
77	异氰尿酸三缩水甘油酯 TGIC(1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.0100
78	替罗昔隆 β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	0.0100
79	4,4'-四甲基二氨二苯酮 4,4'-bis(dimethylamino)benzophenone (Michler'sketone)	90-94-8	202-027-5	0.0100
80	4,4'-亚甲基双(N,N-二甲基苯胺) N,N,N',N'-tetramethyl-4,4'- methylenedianiline (Michler'sbase)	101-61-1	202-959-2	0.0100
81	结晶紫 [4-[4,4'-bis(dimethylamino)benzhydryli dene]cyclohexa-2,5-dien-1-ylidene]dim ethylammonium chloride (C.I. BasicViolet 3)	548-62-9	208-953-6	0.0100
82	碱性蓝 26 [4-[[4-anilino-1-naphthyl][4-(dimethy lamino)phenyl]methylene]cyclohexa- 2,5-dien-1-ylidene] dimethylammoniumchloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	0.0100
83	溶剂蓝 4 α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.0100
84	α,α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.0100





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第八批 54种 SVHC (2012年12月公布) (The eighth 54 SVHC(Announced in December, 2012)) 单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS号 CAS No.	EC号 EC No.	报告限 Report Limit
85	十溴联苯醚 Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.0100
86	全氟十三酸 Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.0100
87	全氟十二酸 Tricosafuorododecanoic acid	307-55-1	206-203-2	0.0100
88	全氟十一烷酸 Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.0100
89	全氟十四酸 Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.0100
90	^① 对特辛基苯酚乙氧基醚 ^① 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	—	—	0.0100
91	^① 4-壬基苯酚, 支链和直链 ^① 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	—	—	0.0100
92	偶氮二甲酰胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.0100
93	六氢邻苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	201-604-9	0.0100
94	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 Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride,Hexahydro-1-methylphthalic anhydride,Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.0100



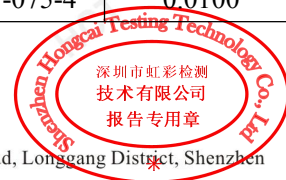


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序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
95	甲氧基乙酸 Methoxy acetic acid	625-45-6	210-894-6	0.0100
96	支链和直链 1, 2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.0100
97	邻苯二甲酸二异戊酯 Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.0100
98	邻苯二甲酸正戊基异戊基酯 N-pentyl-isopentylphthalate	776297-69-9	—	0.0100
99	乙二醇二乙醚 1,2-Diethoxyethane	629-14-1	211-076-1	0.0100
100	N,N-二甲基甲酰胺 N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.0100
101	二丁基二氯化锡 Dibutyltin dichloride (DBT)	683-18-1	211-670-0	0.0100
102	碱式乙酸铅*Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.0100
103	碱式碳酸铅* Basic lead carbonate (trileadbis(carbonate)dihydroxide)*	1319-46-6	215-290-6	0.0100
104	碱式硫酸铅*Lead oxide sulfate (basic lead sulfate)*	12036-76-9	234-853-7	0.0100
105	[1,2-苯二羧酸根合]二氧化三铅* [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*	69011-06-9	273-688-5	0.0100
106	双(十八烷基)氧代三铅*Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.0100
107	C16-18-脂肪酸铅盐*Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.0100
108	四氟硼酸铅*Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.0100
109	氨基氰铅盐*Lead cyanamate*	20837-86-9	244-073-9	0.0100
110	硝酸铅*Lead dinitrate*	10099-74-8	233-245-9	0.0100
111	氧化铅*Lead oxide (lead monoxide)*	1317-36-8	215-267-0	0.0100
112	四氧化三铅, 铅丹*Lead tetroxide (orange lead)*	1314-41-6	215-235-6	0.0100
113	钛酸铅*Lead titanium trioxide*	12060-00-3	235-038-9	0.0100
114	钛酸铅锆*Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	0.0100
115	②氧化铅与硫酸铅的复合物*Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.0100
116	②颜料黄 41***Pyrochlore, antimony lead yellow C.I.***	8012-00-8	232-382-1	0.0100
117	②铅掺杂的硅钡酸盐*②Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	0.0100
118	硅酸铅*Silicic acid, lead salt*	11120-22-2	234-363-3	0.0100
119	亚硫酸铅(II)*Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.0100
120	四乙基铅*Tetraethyllead*	78-00-2	201-075-4	0.0100





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序号 No.	物质名称 Substance Name(s)	CAS号 CAS No.	EC号 EC No.	报告限 Report Limit
121	三碱式硫酸铅*Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.0100
122	磷酸氧化铅*Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.0100
123	呋喃 Furan	110-00-9	203-727-3	0.0100
124	环氧丙烷 Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.0100
125	硫酸二乙酯 Diethyl sulphate	64-67-5	200-589-6	0.0100
126	硫酸二甲酯 Dimethyl sulphate	77-78-1	201-058-1	0.0100
127	乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.0100
128	地乐酚(二硝丁酚) Dinoseb	88-85-7	201-861-7	0.0100
129	4,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.0100
130	4,4'-二氨基二苯醚 4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.0100
131	4-氨基偶氮苯 4-Aminoazobenzene;4-Phenylazoaniline	60-09-3	200-453-6	0.0100
132	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.0100
133	2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.0100
134	4-氨基联苯 Biphenyl-4-ylamine	92-67-1	202-177-1	0.0100
135	邻氨基偶氮甲苯 o-aminoazotoluene	97-56-3	202-591-2	0.0100
136	邻甲基苯胺 o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.0100
137	N-甲基乙酰胺 N-methylacetamide	79-16-3	201-182-6	0.0100
138	溴代正丙烷 1-bromopropane; n-propyl bromide	106-94-5	203-445-0	0.0100





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第九批 6 种 SVHC (2013 年 6 月公布) (The ninth 6 SVHC(Announced in June, 2013))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
139	镉 Cadmium	7440-43-9	231-152-8	0.0100
140	氧化镉*Cadmium oxide*	1306-19-0	215-146-2	0.0100
141	十五代氟辛酸铵盐 Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.0100
142	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.0100
143	邻苯二甲酸二正戊酯 Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.0100
144	①4-壬基酚, 支链和直链, 乙氧基[由一含 9 个碳的直链和/或支链烷基链, 在碳 4 的位置共价有苯酚、乙氧基覆盖的非线性结构和明确的物质, 包括任何单一的同分异构体和/或其合] ①4-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, which include any of the individual isomers and/or combinations thereof]	—	—	0.0100





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第十批 7 种 SVHC (2013 年 12 月公布) (The tenth 7 SVHC(Announced in December, 2013)) 单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
145	硫化镉*Cadmium sulphide *	1306-23-6	215-147-8	0.0100
146	邻苯二甲酸二己酯 Dihexyl phthalate	84-75-3	201-559-5	0.0100
147	[®] C.I.直接红 28 [®] Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	0.0100
148	[®] C.I.直接黑 38 [®] Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	0.0100
149	亚乙基硫脲 Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.0100
150	醋酸铅*Lead di(acetate) *	301-04-2	206-104-4	0.0100
151	磷酸三(二甲苯)酯 Trixylyl phosphate	25155-23-1	246-677-8	0.0100

第十一批 4 种 SVHC (2014 年 6 月公布) (The eleventh 4 SVHC(Announced in June, 2014)) 单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
152	邻苯二甲酸二己酯 (直链与支链) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.0100
153	氯化镉*Cadmium chloride*	10108-64-2	233-296-7	0.0100
154	水合高硼酸钠盐类 Sodium perborate; perboric acid, sodium salt*	—	239-172-9, 234-390-0	0.0100
155	过硼酸钠*Sodium peroxometaborate*	7632-04-4	231-556-4	0.0100





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第十二批 6 种 SVHC (2014 年 12 月公布) (The twelfth 6 SVHC(Announced in December, 2014)) 单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
156	2-(2'-羟基-3',5'-二叔戊基苯基)苯并三唑 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.0100
157	2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.0100
158	氟化镉* Cadmium fluoride*	7790-79-6	232-222-0	0.0100
159	硫酸镉* Cadmium sulphate*	10124-36-4; 31119-53-6	233-331-6	0.0100
160	二正辛基-双(巯乙酸 2-乙基己酯)锡 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(DOTE)	15571-58-1	239-622-4	0.0100
161	二正辛基-双(巯乙酸 2-乙基己酯) (DOTE) 和三 (2-乙基己基巯基乙酸) 辛锡 (MOTE) 反应物料 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-oxo-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	—	—	0.0100





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第十三批 2 种 SVHC (2015 年 6 月公布) (The thirteenth 2 SVHC(Announced in June, 2015))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
162	1,2-苯二羧酸, 二-碳 6-10-烷基酯 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1	0.0100
163	5-仲丁基-丁基-2-(2,4-二甲基环己胺-3-乙二胺-1-基)-5-甲基-1,3-二氧化乙烷 [1], 5-仲丁基-丁基-2-(4,6-二甲基环己胺-3-乙二胺-1-基)-5-甲基-1,3-二氧化乙烷[2] (这两种物质的异构体以及它们的混合物) 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]	—	—	0.0100

第十四批 5 种 SVHC (2015 年 12 月公布) (The fourteenth 5 SVHC(Announced in December, 2015))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
164	硝基苯 Nitrobenzene	98-95-3	202-716-0	0.0100
165	2,4-二-叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚 (UV-327) 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.0100
166	2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑(UV-350) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.0100
167	1,3-丙烷磺内酯 1,3-propanesultone	1120-71-4	214-317-9	0.0100
168	全氟壬酸及盐(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-十七氟壬酸和其钠和铵盐) Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-heptafluorononanoic acid and its sodium and ammonium salts)	375-95-1 21049-39-8 4149-60-4	206-801-3	0.0100





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第十五批 1 种 SVHC (2016 年 6 月公布) (The fifteenth 1 SVHC(Announced in June, 2016))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
169	苯并芘 Benzo[def]chrysene	50-32-8	200-028-5	0.0100

第十六批 4 种 SVHC (2017 年 1 月公布) (The sixteenth 4 SVHC(Announced in January, 2017))

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
170	2,2-双(4-羟基苯基)丙烷 (双酚A) 4,4'-isopropylidenediphenol (bisphenol A) (BPA)	80-05-7	201-245-8	0.0100
171	支链与直链的4-庚基苯酚 (4-HPbl) 4-heptylphenol, branched and linear (4-HPbl)	—	—	0.0100
172	全氟癸酸 (PFDA) 及其钠盐和铵盐 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	-- 206-400-3 221-470-5	0.0100
173	对-(1,1-二甲基丙基)酚 (对叔戊基苯酚) (PTAP) 4-tert-pentylphenol (PTAP)	80-46-6	201-280-9	0.0100

第十七批 1 种 SVHC (2017 年 7 月公布) (The seventeenth 1 SVHC(Announced in July, 2017))

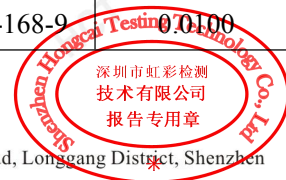
单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
174	全氟己基磺酸及其盐类 Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	—	—	0.0100

2017 年 9 月 5 日评议的 9 项高度关注物质(Proposed 9 Substances of Very High Concern on Sep. 5, 2017)

单位(Unit): %

序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告限 Report Limit
1	德克隆[包括所有反式和顺式异构体及其组合] Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9; 135821-74-8; 135821-03-3	236-948-9; —; —	0.0100
2	苯并[a]蒽 Benz[a]anthracene	56-55-3	200-280-6	0.0100
3	硝酸镉*Cadmium nitrate*	10325-94-7	233-710-6	0.0100
4	碳酸镉*Cadmium carbonate*	513-78-0	208-168-9	0.0100





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序号 No.	物质名称 Substance Name(s)	CAS号 CAS No.	EC号 EC No.	报告限 Report Limit
5	氢氧化镉*Cadmium hydroxide*	21041-95-2	244-168-5	0.0100
6	蒽Chrysene	218-01-9	205-923-4	0.0100
7	①1,3,4-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, 支链和直链含量≥0.1% w / w] ①Reaction 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]	—	—	0.0100
8	四氧化三钴, 其中氧化镍含量含≥0.1%w / w* Tricobalt tetraoxide containing≥0.1% w/w nickel oxides*	1308-06-1	215-157-2	0.0100
9	2,2-双(4-羟基苯基)丙烷 (双酚A) 4,4'-isopropylidenediphenol (bisphenol A) (BPA)	80-05-7	201-245-8	0.0100

注释(Note):

-0.1%=1000mg/kg

-mg/kg=ppm=parts per million

-*: 无机 SVHC 的化合物通过检测钴、氯、钠、砷、铬、钾、铅、硼、锆、钛、锡、磷、钙、锌、锑、钼、铝、镉元素的结果换算而来, 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物质。

Inorganic SVHC compounds are obtained by converting the test results of cobalt, chloride, sodium, arsenic, chromium, potassium, lead, boron, zirconium, titanium, tin, phosphorus, calcium, zinc, strontium, molybdenum, aluminum and cadmium elements, and confirmed through the appropriate solvent extraction. At the same time, customers are suggested to check the chemical formula table, to further confirm whether above materials are contained.

-**: 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。

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).

-***: C.I.: 颜料索引号, C.I.:Colour Index

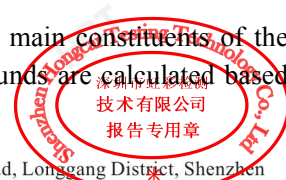
-****: 蒸馏所分离出来的轻油部分, Light fractions from distillation

-①: 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, 所有这些物质的检测结果是由选定的具有代表性的物质的主要组成成分的检测结果换算而来的。

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.

-②: 由于此物质含有多种物质, 检测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, 其主要组成化合物的检测结果是基于特定的元素的结果换算而来。

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





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on the result of specified heavy metal elements.

附加信息(Appendix):

1. 依据法规 (EC) No 1907/2006(REACH)第 33 条规定——有责任交流物品当中有关物质的信息。

According to the Article 33 of the Regulation (EC) No 1907/2006(REACH)-Duty to communicate information on substances in articles.

一物品中所含有的某一物质若符合第 57 条的标准且被鉴定依照第 59 条 (1) 该物质在物品中的结果在质量比 (w/w) 0.1%以上, 其供应方需向接收方提供此物品的详细信息, 若可以, 还需提供包括至少物质名称在内的可获取的物质安全使用信息。

Any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a Result 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.

一根据消费者要求, 物品中所含有的某一物质若符合第 57 条的标准且被鉴定依照第 59 条 (1) 该物质在物品中的结果在质量比 (w/w) 0.1%以上, 其供应方需向消费者提供此物品的详细信息, 若可以, 还需提供包括至少物质名称在内的可获取的物质安全使用信息。有关信息在请求后 45 天内免费提供。

On request by a consumer any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a Result above 0.1% weight by weight(w/w) shall provide the consumer with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. The relevant information shall be provided, free of charge, within 45 days of receipt of the request.

2. 依据法规 (EC) No 1907/2006 (REACH) 第 33 条规定——通告物品中所含有的物质。

According to the Article 33 of the Regulation (EC) No 1907/2006(REACH)-Notification of the Substance in Article.

一如果某一物质符合第 57 条的标准且依照第 59 条 (1) 被鉴定, 该物品所含有的物质列入了候选名单中, 其 EU&EEA 生产商或者进口商必须告知 ECHA (欧盟化学品管理局)。若此物质结果超过了 0.1%质量比 (w/w) 且其生产/进口数量每年总计在 1 吨以上, 生产商和进口商有义务进行通报。

If a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), EU and EEA producers or importers of articles have to notify ECHA when their article contains a substance on the Candidate List. This obligation applies if the substance is present above 0.1%(w/w) and its quantities in the produced/imported articles are above 1 tonne in total per year.

3. 依据法规(EC)No 1907/2006(REACH) 的其他条例规定,有义务提供物质本身的信息或者在配制品中的信息。

According to the other articles of the Regulation(EC) No 1907/2006(REACH),The relevant obligation for the substance on its own or in preparation.

一义务: 物质, OBLIGATIONS:SUBSTANCES

从 2008 年 10 月 28 日开始, 当物质列入候选名单时, 其 EU&EEA 供应方必须提供给客户安全数据清单

From 28 October 2008, EU&EEA suppliers of a substance have to provide a safety data sheet to their customers when





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the substance is on the Candidate List.

一义务: 配置品, OBLIGATIONS: PREPARATIONS

从 2008 年 10 月 28 日开始, 根据指令 1999/45/EC, 没有划分为危险品的配制品, 若配制品中含有至少一种列入清单中的物质, 其结果不超过非气态性配制品的质量比 (w/w) 0.1%, 且不超过气态性配制品的体积比 0.2%, 可以根据接受方的要求, EU&EEA 供应商必须提供给接受方安全数据清单。

From 28 October 2008, EU&EEA suppliers of a preparation not classified as dangerous according to Directive 1999/45/EC have to provide the recipients, at their request, with a safety data sheet if the preparation contains at least one substance on the Candidate List and its individual Result is at least 0.1%(w/w) for non gaseous preparations and at least 0.2% by volume for gaseous preparations.

报告结束(End)

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