

检 测 报 告
TEST REPORT

报告编号 (No.) : UTS24090304M11 报告日期 (Report Date) : 2024/10/11

委托单位/Client : 综研化学 (苏州) 有限公司
Comprehensive Research Chemistry (Suzhou) Co., Ltd.
地 址/Address : 苏州工业园区星龙街 271 号
271 Xinglong Street, Suzhou Industrial Park

以下样品信息由申请人提供及确认:

The following sample(s) was/were submitted and identified on behalf of the client as:

样品名称/Sample Name : ZAH 系列树脂/ZAH series resin
接样日期/Receiving Date : 2024/09/29
检测项目/Test Item : REACH 241 & RoHS 2.0 & 卤素/Halogen
结 论/Conclusion : 1. 基于欧洲化学品管理署截止 2024 年 6 月 27 日公布的供授权审议的高关注物质候选清单 (根据欧盟第 1907/2006 号 REACH 法规), 对 241 种高关注物质 (SVHC) 进行筛分检测。根据具体的范围和筛分检测, 所提交样品 SVHC 检测结果 $\leq 0.1\%$ (w/w), 符合 EC 1907/2006 的判定要求。/Based on the candidate list of high concern substances (SVHC) for authorization review published by the European Chemical Administration as of June 27, 2024 (in accordance with EU Regulation (REACH) 1907/2006), screening and testing were conducted on 241 high concern substances (SVHC). According to the specific scope and screening test, the SVHC test result of the submitted sample is $\leq 0.1\%$ (w/w), which meets the judgment requirements of EC 1907/2006.
2. 申请人所提供样品的检测结果符合欧盟 RoHS 指令 2011/65/EU 附录 II 及其修订指令 (EU)2015/863 的限值要求。/Based on the analysis of the submitted sample, the results meet the requirements of EU RoHS Directive 2011/65/EU Annex II and its amending Directive (EU)2015/863.
3. 申请人所提供样品的检测结果符合 IEC 61249-2-21:2003 的要求。/Based on the analysis of the submitted sample, the results meet the requirements of IEC 61249-2-21:2003.

签

Approved by



樊建红 授权签字人

审

Reviewed by

核

赵方方

赵方方

编

Prepared by

制

黄佳蔚

黄佳蔚

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江苏省优联检测技术服务有限公司

地址: 苏州市吴中区越溪街道北官渡路50号3幢 215021

电话 (Tel) : +0512-66358200

UNITED TESTING SERVICES (JIANGSU) CO., LTD.

Address: Building 3, No.50 Beiguandu Road, Wuzhong Zone, Suzhou, Jiangsu, China, 215021

传真 (Fax) : +0512-66358088

www.uts.com.cn

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1、测试标准/Test Standard

参考 REACH 法规/Refer to REACH; IEC62321; EN 14582:2016

2、测试日期/Test Date

2024/09/29-2024/10/09

3、测试设备/Test Equipment(s)

设备名称 Test Equipment	设备编号 Equipment Number	校准有效期 Calibration Period of Validity
等离子体发射光谱仪 ICP-OES	M-1-584	2025/12/14
紫外可见分光光度计 UV-vis	M-1-622	2024/12/14
气相色谱质谱联用仪 GC-MS	M-1-583	2025/12/14
气相色谱质谱联用仪 GC-MS	M-1-582	2025/12/14
离子色谱仪 IC	E-1-1038	2024/11/28

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4、测试结果/Test Result(s)

4.1、REACH 241

编号 No.	检测项目 Test Items	EC 编号 EC No.	CAS 编号 CAS No.	方法 检测限 MDL(%)	检测结果 Results (%)
1	4, 4'-二氨基二苯甲烷 /4,4'-Diaminodiphenylmethane	202-974-4	101-77-9	0.005	N.D.
2	二甲苯麝香 /5-tert-butyl-2,4,6-trinitro-m-xylene	201-329-4	81-15-2	0.005	N.D.
3	C ₁₀₋₁₃ 短链氯化石蜡/Alkanes,C ₁₀₋₁₃ , chloro	287-476-5	85535-84-8	0.005	N.D.
4	蒽/Anthracene	204-371-1	120-12-7	0.005	N.D.
5	邻苯二甲酸丁苄酯/Benzyl butyl phthalate(BBP)	201-622-7	85-68-7	0.005	N.D.
6	邻苯二甲酸二(2-乙基己基)酯 /Di(2-ethyl(hexyl)phthalate)(DEHP)	204-211-0	117-81-7	0.005	N.D.
7	三丁基氧化锡(TBTO)**/Bis(tributyltin)oxide	200-268-0	56-35-9	0.005	N.D.
8	二氯化钴*/Cobalt dichloride	231-589-4	7646-79-9	0.01	N.D.
9	五氧化二砷*/Diarsenic pentaoxide	215-116-9	1303-28-2	0.01	N.D.
10	三氧化二砷*/Diarsenic trioxide	215-481-4	1327-53-3	0.01	N.D.
11	邻苯二甲酸二丁酯/Dibutyl Phthalate(DBP)	201-557-4	84-74-2	0.005	N.D.
12	六溴环十二烷 (HBCDD) 及其非对映异构体: α -HBCDD, β -HBCDD, γ -HBCDD /Hexabromocyclododecane	247-148-4 221-695-9	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	0.005	N.D.
13	砷酸氢铅*/Lead hydrogen arsenate*	232-064-2	7784-40-9	0.01	N.D.
14	重铬酸钠*/Sodium dichromate	234-190-3	7789-12-0/ 10588-01-9	0.01	N.D.
15	三乙基砷酸酯*/Triethyl arsenate	427-700-2	15606-95-8	0.01	N.D.
16	2,4-二硝基甲苯/2,4-Dinitrotoluene	204-450-0	121-14-2	0.005	N.D.
17	丙烯酰胺/Acrylamide	201-173-7	79-06-1	0.005	N.D.
18	蒽油/Anthracene oil	292-602-7	90640-80-5	0.005	N.D.
19	蒽油, 蒽糊/Anthracene oil, anthracene paste	292-603-2	90640-81-6	0.005	N.D.

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20	蒽油, 蒽糊, 蒽馏分/Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	0.005	N.D.
21	蒽油, 蒽糊, 轻油/Anthracene oil, anthracene paste; distn. Lights	295-278-5	91995-17-4	0.005	N.D.
22	蒽油, 低蒽/Anthracene oil, anthracene-low	292-604-8	90640-82-7	0.005	N.D.
23	邻苯二甲酸二异丁酯/Diisobutyl phthalate(DIBP)	201-553-2	84-69-5	0.005	N.D.
24	铬酸铅*/Lead chromate	231-846-0	7758-97-6	0.01	N.D.
25	钼铬红 (C.I.颜料红 104) */Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	0.01	N.D.
26	铅铬黄(C.I.颜料黄 34)*/Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	0.01	N.D.
27	煤焦油沥青, 高温/Coal tar pitch, high temperature	266-028-2	65996-93-2	0.005	N.D.
28	磷酸三(2-氯乙基)酯 /Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	0.005	N.D.
29	重铬酸铵*/Ammonium dichromate	232-143-1	7789-09-5	0.01	N.D.
30	硼酸*/Boric acid	233-139-2/ 234-343-4	10043-35-3/ 11113-50-1	0.01	N.D.
31	无水四硼酸钠*/Disodium tetraborate, anhydrous	215-540-4	1303-96-4/ 1330-43-4/ 12179-04-3	0.01	N.D.
32	铬酸钠*/Sodium chromate	231-889-5	7775-11-3	0.01	N.D.
33	七水合四硼酸钠*/Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	0.01	N.D.
34	三氯乙烯/Trichloroethylene	201-167-4	79-01-6	0.005	N.D.
35	铬酸钾*/Potassium chromate	232-140-5	7789-00-6	0.01	N.D.
36	重铬酸钾*/Potassium dichromate	231-906-6	7778-50-9	0.01	N.D.
37	2-乙氧基乙醇 (乙二醇乙醚) /2-Ethoxyethanol	203-804-1	110-80-5	0.005	N.D.
38	2-甲氧基乙醇 (乙二醇单甲醚) /2-Methoxyethanol	203-713-7	109-86-4	0.005	N.D.
39	三氧化铬衍生酸, 如铬酸、重铬酸、低聚铬酸等 */Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	231-801-5 - 236-881-5	7738-94-5 - 13530-68-2	0.01	N.D.

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40	三氧化铬*/Chromium trioxide	215-607-8	1333-82-0	0.01	N.D.
41	碳酸钴*/Cobalt(II) carbonate	208-169-4	513-79-1	0.01	N.D.
42	醋酸钴*/Cobalt(II) diacetate	200-755-8	71-48-7	0.01	N.D.
43	硝酸钴*/Cobalt(II) dinitrate	233-402-1	10141-05-6	0.01	N.D.
44	硫酸钴*/Cobalt(II) sulphate	233-334-2	10124-43-3	0.01	N.D.
45	乙二醇乙醚醋酸酯/2-ethoxyethyl acetate	203-839-2	111-15-9	0.005	N.D.
46	铬酸锶*/Strontium chromate	232-142-6	7789-06-2	0.01	N.D.
47	1,2-苯二酸-二(C ₇₋₁₁ 支链与直链)烷基(醇)酯 /1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ branched and linear alkyl esters	271-084-6	68515-42-4	0.005	N.D.
48	联氨(肼)/Hydrazine	206-114-9	7803-57-8 302-01-2	0.005	N.D.
49	1-甲基-2-吡咯烷酮/1-methyl-2-pyrrolidone	212-828-1	872-50-4	0.005	N.D.
50	1,2,3-三氯丙烷/1,2,3-trichloropropane	202-486-1	96-18-4	0.005	N.D.
51	1,2-苯二酸-二(C ₆₋₈ 支链)烷基酯(富 C ₇)/ 1,2-Benzenedicarboxylic acid, di-C ₆₋₈ branched alkyl esters, C ₇ -rich	276-158-1	71888-89-6	0.005	N.D.
52	苦味酸铅*/Lead dipicrate	229-335-2	6477-64-1	0.01	N.D.
53	2,4,6-三硝基苯二酚铅*/Lead styphnate	239-290-0	15245-44-0	0.01	N.D.
54	叠氮化铅*/Lead diazide Lead azide	236-542-1	13424-46-9	0.01	N.D.
55	酚酞/Phenolphthalein	201-004-7	77-09-8	0.005	N.D.
56	4,4'-亚甲基双-2-氯苯胺 /2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	0.005	N.D.
57	N,N-二甲基乙酰胺/ N,N-dimethylacetamide	204-826-4	127-19-5	0.005	N.D.
58	砷酸铅*/Trilead diarsenate	222-979-5	3687-31-8	0.01	N.D.
59	砷酸钙*/Calcium arsenate	231-904-5	7778-44-1	0.01	N.D.
60	砷酸*/Arsenic acid	231-901-9	7778-39-4	0.01	N.D.
61	二乙二醇二甲醚 /Bis(2-methoxyethyl) ether	203-924-4	111-96-6	0.005	N.D.
62	1,2-二氯乙烷/1,2-Dichloroethane	203-458-1	107-06-2	0.005	N.D.
63	对特辛基苯酚 /4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	205-426-2	140-66-9	0.005	N.D.

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64	邻甲氧基苯胺/2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	0.005	N.D.
65	邻苯二甲酸二甲氧乙酯(DMEP) /Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	0.005	N.D.
66	甲醛苯胺共聚物 /Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	0.005	N.D.
67	氧化锆硅酸铝耐火陶瓷纤维*** /Zr-RCF(Zirconia Aluminosilicate Refractory Ceramic Fibres)	---	---	0.01	N.D.
68	硅酸铝耐火陶瓷纤维*** /Aluminosilicate Refractory Ceramic Fibres (RCF)	---	---	0.01	N.D.
69	锌黄(C.I.颜料黄 36)* /Pentazinc chromate octahydroxide	256-418-0	49663-84-5	0.01	N.D.
70	氢氧化铬酸锌钾*/Potassium hydroxyoctaoxodizincate di-chromate*	234-329-8	11103-86-9	0.01	N.D.
71	铬酸铬*/Dichromium tris(chromate)	246-356-2	24613-89-6	0.01	N.D.
72	1,2-二(2-甲氧基乙氧基)乙烷 /1,2-bis(2-methoxyethoxy)ethane(TEGDME; triglyme)	203-977-3	112-49-2	0.005	N.D.
73	乙二醇二甲醚 /1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	0.005	N.D.
74	三氧化二硼*/Diboron trioxide	215-125-8	1303-86-2	0.01	N.D.
75	甲酰胺/Formamide	200-842-0	75-12-7	0.005	N.D.
76	甲基磺酸铅*/Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	0.01	N.D.
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)	219-514-3	2451-62-9	0.005	N.D.
78	异氰脲酸β-三缩水甘油酯 /β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H, 3H,5H)-trione)	423-400-0	59653-74-6	0.005	N.D.

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79	4,4'-二(N,N-二甲氨基)二苯甲酮(米氏酮) /4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	0.005	N.D.
80	4,4'-(对二甲氨基)二苯基甲烷(米氏碱) /N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	0.005	N.D.
81	C.I.碱性紫3**** /[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet3)	208-953-6	548-62-9	0.005	N.D.
82	C.I.碱性蓝26**** /[4-[4-anilino-1-naphthyl][4-(dimethylamino)ph enyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5	0.005	N.D.
83	C.I.溶剂蓝4**** /α,α-Bis[4-(dimethylamino)phenyl]-4(phenylam ino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0	0.005	N.D.
84	α,α-二[(二甲氨基)苯基]-4-甲基苯甲醇**** /4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1	0.005	N.D.
85	十溴二苯醚/ Decabromodiphenyl ether (DecaBDE)	214-604-9	1163-19-5	0.005	N.D.
86	全氟十三酸 /Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	0.005	N.D.
87	全氟十二酸 /Tricosafuorododecanoic acid	206-203-2	307-55-1	0.005	N.D.
88	全氟十一烷酸/Henicosafluoroundecanoic acid	218-165-4	2058-94-8	0.005	N.D.
89	全氟十四酸/Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	0.005	N.D.

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90	4-壬基苯酚, 支链和直链 /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	---	---	0.005	N.D.
91	偶氮二甲酰胺 /Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	0.005	N.D.
92	六氢邻苯二甲酸酐 /Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	201-604-9	85-42-7	0.005	N.D.
93	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	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0.005	N.D.
94	甲氧基乙酸/Methoxy acetic acid	210-894-6	625-45-6	0.005	N.D.
95	支链和直链1,2-苯二羧二戊酯 /1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	0.005	N.D.
96	邻苯二甲酸二异戊酯/Diisopentylphthalate (DIPP)	210-088-4	605-50-5	0.005	N.D.
97	邻苯二甲酸正戊基异戊基酯 /N-pentyl-isopentylphthalate	---	776297-69- 9	0.005	N.D.
98	乙二醇二乙醚/1,2-Diethoxyethane	211-076-1	629-14-1	0.005	N.D.
99	N,N-二甲基甲酰胺/N,N-dimethylformamide; dimethyl formamide	200-679-5	68-12-2	0.005	N.D.
100	二丁基二氯化锡/Dibutyltin dichloride (DBT)	211-670-0	683-18-1	0.005	N.D.
101	碱式乙酸铅*/Acetic acid, lead salt, basic	257-175-3	51404-69-4	0.01	N.D.
102	碱式碳酸铅*/Basic lead carbonate (trilead bis(carbonate)dihydroxide)	215-290-6	1319-46-6	0.01	N.D.

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103	碱式硫酸铅*/Lead oxide sulfate (basic lead sulfate)	234-853-7	12036-76-9	0.01	N.D.
104	[1,2-苯二羧酸根合]二氧化三铅* /[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	273-688-5	69011-06-9	0.01	N.D.
105	双(十八酸基)二氧化三铅* /Dioxobis(stearato)trilead	235-702-8	12578-12-0	0.01	N.D.
106	C ₁₆₋₁₈ 脂肪酸铅盐* /Fatty acids, C ₁₆₋₁₈ , lead salts	292-966-7	91031-62-8	0.01	N.D.
107	四氟硼酸铅*/Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	0.01	N.D.
108	氨基氰铅盐*/Lead cyanamidate	244-073-9	20837-86-9	0.01	N.D.
109	硝酸铅*/Lead dinitrate	233-245-9	10099-74-8	0.01	N.D.
110	氧化铅*/Lead oxide (lead monoxide)	215-267-0	1317-36-8	0.01	N.D.
111	四氧化三铅, 铅丹*/Lead tetroxide (orange lead)	215-235-6	1314-41-6	0.01	N.D.
112	钛酸铅*/Lead titanium trioxide	235-038-9	12060-00-3	0.01	N.D.
113	钛酸铅锆*/Lead Titanium Zirconium Oxide	235-727-4	12626-81-2	0.01	N.D.
114	氧化铅与硫酸铅的复合物* /Pentalead tetraoxide sulphate	235-067-7	12065-90-6	0.01	N.D.
115	颜料黄 41* /Pyrochlore, antimony lead yellow C.I.	232-382-1	8012-00-8	0.01	N.D.
116	铅掺杂的硅钡酸盐* /Silicic acid, barium salt, lead-doped	272-271-5	68784-75-8	0.01	N.D.
117	硅酸铅*/Silicic acid, lead salt	234-363-3	11120-22-2	0.01	N.D.
118	亚硫酸铅(II)*/Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	0.01	N.D.
119	四乙基铅*/Tetraethyllead	201-075-4	78-00-2	0.01	N.D.
120	三碱式硫酸铅*/Tetralead trioxide sulphate	235-380-9	12202-17-4	0.01	N.D.
121	磷酸氧化铅*/Trilead dioxide phosphonate	235-252-2	12141-20-7	0.01	N.D.
122	呋喃/Furan	203-727-3	110-00-9	0.005	N.D.
123	环氧丙烷/Propylene oxide; 1,2-epoxypropane; methyloxirane	200-879-2	75-56-9	0.005	N.D.
124	硫酸二乙酯/Diethyl sulphate	200-589-6	64-67-5	0.005	N.D.
125	硫酸二甲酯/Dimethyl sulphate	201-058-1	77-78-1	0.005	N.D.

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126	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-oxazolidine3-	421-150-7	143860-04-2	0.005	N.D.
127	地乐酚 (二硝丁酚) /Dinoseb	201-861-7	88-85-7	0.005	N.D.
128	4,4'-二氨基-3,3'-二甲基二苯甲烷 /4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	0.005	N.D.
129	4,4'-二氨基二苯醚/4,4'-oxydianiline and its salts	202-977-0	101-80-4	0.005	N.D.
130	4-氨基偶氮苯 /4-Aminoazobenzene; 4-Phenylazoaniline	200-453-6	60-09-3	0.005	N.D.
131	2,4-二氨基甲苯/4-methyl-m-phenylenediamine (2,4-toluene-diamine)	202-453-1	95-80-7	0.005	N.D.
132	2-甲氧基-5-甲基苯胺 /6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	0.005	N.D.
133	4-氨基联苯/Biphenyl-4-ylamine	202-177-1	92-67-1	0.005	N.D.
134	邻氨基偶氮甲苯/o-aminoazotoluene	202-591-2	97-56-3	0.005	N.D.
135	邻甲基苯胺/o-Toluidine; 2-Aminotoluene	202-429-0	95-53-4	0.005	N.D.
136	N-甲基乙酰胺/N-methylacetamide	201-182-6	79-16-3	0.005	N.D.
137	溴代正丙烷/1-bromopropane; n-propyl bromide	203-445-0	106-94-5	0.005	N.D.
138	对特辛基苯酚 /4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologues	---	---	0.005	N.D.
139	4-壬基酚, 支化或者线性, 乙氧基 /4-Nonylphenol, branched and linear, ethoxylated	---	---	0.005	N.D.
140	镉/Cadmium	231-152-8	7440-43-9	0.01	N.D.
141	氧化镉*/Cadmium oxide	215-146-2	1306-19-0	0.01	N.D.
142	十五代氟辛酸铵盐/Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	0.005	N.D.
143	全氟辛酸类化合物/ Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	0.005	N.D.

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144	邻苯二甲酸二戊酯/Dipentyl phthalate (DPP)	205-017-9	131-18-0	0.005	N.D.
145	硫化镉*/Cadmium sulphide	215-147-8	1306-23-6	0.01	N.D.
146	邻苯二甲酸二己酯(DHXP) /Dihexyl phthalate (DHXP)	201-559-5	84-75-3	0.005	N.D.
147	直接红28 /Disodium3,3'-[[1,1'-biphenyl]-4,4'-diylbis (azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	0.005	N.D.
148	直接黑38 /Disodium4-amino-3'-[[4'-[(2,4-diaminophenyl)a zo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disu lphonate (C.I. Direct Black 38)	217-710-3	1937-37-7	0.005	N.D.
149	亚乙基硫脲/Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	0.005	N.D.
150	醋酸铅(II)*/Lead di(acetate) (II)	206-104-4	301-04-2	0.01	N.D.
151	磷酸三(二甲苯)酯/Trixylyl phosphate	246-677-8	25155-23-1	0.005	N.D.
152	邻苯二甲酸二(支链与直链)己酯 /1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	271-093-5	68515-50-4	0.005	N.D.
153	一水合过硼酸钠、过硼酸钠盐/ Sodium perborate; perboric acid, sodium salt*	239-172-9; 234-390-0	---	0.01	N.D.
154	无水过硼酸钠/ Sodium peroxometaborate*	231-556-4	7632-04-4	0.01	N.D.
155	氯化镉/ Cadmium chloride*	233-296-7	10108-64-2	0.01	N.D.
156	氟化镉/Cadmium fluoride*	232-222-0	7790-79-6	0.01	N.D.
157	硫酸镉/Cadmium sulphate*	233-331-6	10124-36-4; 31119-53-6	0.01	N.D.
158	2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑 (UV-320) /2-benzotriazol-2-yl-4,6-di-tert-butylphenol(UV- 320)	223-346-6	3846-71-7	0.005	N.D.

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159	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV-328) /2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphen- ol(UV328)	247-384-8	25973-55-1	0.005	N.D.
160	二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE) /2-ethylhexyl10-ethyl-4,4-dioctyl-7-oxo-8-oxa- 3,5-dithia-4-stannatetradecanoate	239-622-4	15571-58-1	0.005	N.D.
161	二正辛基-双(巯乙酸2-乙基己酯)锡(DOTE)和三 (2-乙基己酯巯基乙酸)辛锡(MOTE)的反应物料 /Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-st annatetradecanoate and ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thi o]-4-octyl-7-oxa-3,5-dithia-4-stannateradecano ate	---	---	0.005	N.D.
162	邻苯二甲酸二(C ₆ -C ₁₀)烷基酯/ 1,2-benzenedicarboxylic acid, di-C ₆ -C ₁₀ -alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate(EC No. 201-559-5).	271-094-0; 272-013-1	68515-51-5; 68648-93-1	0.005	N.D.
163	卡拉花醛/ 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 stereoisomers of [1] and [2] or any combination thereof]	---	---	0.005	N.D.
164	硝基苯/Nitrobenzene	202-716-0	98-95-3	0.005	N.D.
165	2,4-二叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚 紫外线吸收剂 UV-327/ 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	223-383-8	3864-99-1	0.005	N.D.

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166	2-(2H-苯并三唑-2-基)-4-特丁基-6-仲丁基苯酚 (紫外吸收剂 UV-350) /2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	0.005	N.D.
167	1,3-丙烷磺内酯/1,3-propanesultone	214-317-9	1120-71-4	0.005	N.D.
168	全氟壬酸及其钠盐和铵盐 /Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	0.005	N.D.
169	苯并(a)芘 /Benzo[def]chrysene(Benzo[a]pyrene)	200-028-5	50-32-8	0.005	N.D.
170	4,4'-异亚丙基联苯酚(双酚 A)/ 4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7	0.005	N.D.
171	全氟癸酸(PFDA)及其钠盐和铵盐/ Nonadec afluorodec anoxic acid (PFDA) and its sodium and ammonium salts	- 206-400-3 221-470-5	3108-42-7 335-76-2 3830-45-3	0.005	N.D.
172	4-庚基(支链与直链)苯酚 (4-HPbl)/4-heptylphenol, branched and linear (4-HPbl)	---	---	0.005	N.D.
173	4-叔丁基苯酚 (PTAP)/ 4-tert-pentylphenol (PTAP)	201-280-9	80-46-6	0.005	N.D.
174	全氟己基磺酸及其盐 (PFHxS) / perfluorohexane-1-sulphonic acid Its salts (PFHxS)	---	---	0.005	N.D.
175	德克隆[包括所有反式和顺式异构体及其组合] /De clones [including all trans and cis isomers and their combinations]	---	---	0.005	N.D.
176	苯并[a]蒽/Benzo [a] anthracene	200-280-6	56-55-3	0.005	N.D.
177	硝酸镉/Cadmium nitrate	233-710-6	10325-94-7	0.01	N.D.
178	碳酸镉/Cadmium carbonate	208-168-9	513-78-0	0.01	N.D.
179	氢氧化镉/Cadmium hydroxide	244-168-5	21041-95-2	0.01	N.D.
180	屈/Chrysene	205-923-4	218-01-9	0.005	N.D.

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181	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, 支链和直链含量≥0.1% w / w] /1,3,4-Thiadiazolidine-2,5-dithione, Formaldehyde and, 4-n-Heptylphenol, branched and linear (RP-HP) [4-n-Heptylphenol, branched and linear content ≥0.1%, w/w]	---	---	0.005	N.D.
182	八甲基环四硅氧烷(D ₄) Octamethylcyclotetrasiloxane(D ₄)	209-136-7	556-67-2	0.005	N.D.
183	十甲基环戊硅氧烷(D ₅) Decamethylcyclopentasiloxane(D ₅)	208-764-9	541-02-6	0.005	N.D.
184	十二甲基环己硅氧烷(D ₆) Dodecamethylcyclohexasiloxane(D ₆)	208-762-8	540-97-6	0.005	N.D.
185	铅/Lead	231-100-4	7439-92-1	0.01	N.D.
186	四水八硼酸二钠/Disodium octaborate	234-541-0	12008-41-2	0.01	N.D.
187	苯并[G,H,I]芘 Benzo[ghi]perylene	205-883-8	191-24-2	0.005	N.D.
188	氢化三联苯/Terphenyl, hydrogenated	262-967-7	61788-32-7	0.005	N.D.
189	乙二胺(EDA)/Ethylenediamine(EDA)	203-468-6	107-15-3	0.005	N.D.
190	偏苯三酸酐 (TMA)/Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; (TMA)	209-008-0	552-30-7	0.005	N.D.
191	邻苯二甲酸二环己酯(DCHP)/Dicyclohexyl phthalate(DCHP)	201-545-9	84-61-7	0.005	N.D.
192	2,2-双(4-羟基苯基)-4-甲基戊烷 /2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	0.005	N.D.
193	苯并[k]荧蒽/ Benzo[k]fluoranthene	205-916-6	207-08-9	0.005	N.D.
194	荧蒽/ Fluoranthene	205-912-4	206-44-0	0.005	N.D.
195	菲/ Phenanthrene	201-581-5	85-01-8	0.005	N.D.
196	芘/ Pyrene	204-927-3	129-00-0	0.005	N.D.

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197	1,7,7-三甲基-3- (苯基亚甲基) 双环[2.2.1]庚烷 -2-酮 /1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2. 2.1]heptan-2-one	239-139-9	15087-24-8	0.005	N.D.
198	2,3,3,3-四氟-2- (七氟丙氧基) 丙酸, 其盐和酰 卤 (包括它们各自的异构体及其组合) /2,3,3,3-tetrafluoro-2-(heptafluoropropanyl) malonic acid, its salts and acyl halides(including their respective isomers and their combinations)	---	---	0.005	N.D.
199	甲氧基乙酸乙酯/Ethyl methoxyacetate	203-772-9	110-49-6	0.005	N.D.
200	三 (壬基苯基, 支链和直链) 亚磷酸酯 (TNPP), 含有≥0.1%w / w 的 4-壬基酚, 支链和直链 (4-NP) /Three(nonylphenyl, branched and linear) phosphonates(TNPP) containing 4-nonylphenols that ≥ 0.1 <UNK> w/w, branched and straight chains(4-NP)	---	---	0.005	N.D.
201	4-叔丁基苯酚/4-tert-butylphenol	202-679-0	98-54-4	0.005	N.D.
202	2-苄基-2-二甲氨基-1-(4-吗啉苯基)丁酮 /2-benzyl-2-dimethylamino-4'-morpholinobutyr ophenone	404-360-3	119313-12- 1	0.005	N.D.
203	2-甲基-1-(4-甲基硫苯基)-2-吗啉基-1-丙酮 /2-methyl-1-(4-methylthiophenyl)-2-morpholino propan-1-one	400-600-6	71868-10-5	0.005	N.D.
204	邻苯二甲酸二异己酯/Diisohexyl phthalate	276-090-2	71850-09-4	0.005	N.D.
205	全氟丁烷磺酸(PFBS)及其盐/Perfluorobutane sulfonic acid (PFBS) and its salts	---	---	0.005	N.D.
206	1-乙烯基咪唑/ 1-vinyl imidazole	214-012-0	1072-63-5	0.005	N.D.
207	2-甲基咪唑/ 2-methylimidazole	211-765-7	693-98-1	0.005	N.D.
208	对羟基苯甲酸丁酯/butyl p-hydroxybenzoate	202-318-7	94-26-8	0.005	N.D.
209	双(乙酰丙酮酸)二丁基锡/bis (acetylacetonate) dibutyltin	245-152-0	22673-19-4	0.005	N.D.

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210	双(2-(2-甲氧基乙氧基)乙基)醚/ Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	0.005	N.D.
211	二月桂酸二辛基锡, 锡烷, 二辛基-双(椰油酰 氧基)衍生物, 以任何其他锡烷, 二辛基-二双 (脂肪酰氧基)衍生物/Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	---	---	0.005	N.D.
212	1,4-二氧六环/1,4- Dioxane	204-661-8	123-91-1	0.005	N.D.
213	二溴新戊二醇 (BMP) 三溴新戊醇 (TBNPA) 2,3-二溴-1-丙醇 (2,3-DBPA) /Dibrominopentadiol(BMP) Tribrominopentalol (TBNPA) 2,3-dibromide-1-propanol (2,3-DBPA)	---	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.005	N.D.
214	铃兰醛及其立体易构体/Sulaldehyde and its stereosimple structures	---	---	0.005	N.D.
215	双酚 B/Bisphenol, B	201-025-1	77-40-7	0.005	N.D.
216	戊二醛/Glutaraldehyde	203-856-5	111-30-8	0.005	N.D.
217	中链氯化石蜡 (MCCP) /Medium-chain chloride fossil paraffin	---	---	0.005	N.D.
218	原硼酸钠盐*/Primary sodium borate *	---	13840-56-7	0.01	N.D.
219	对十二烷基苯酚及其异构体 (PDDP) /Dodecyl phenol and its isomers	---	---	0.005	N.D.
220	覆盖任何单个异构体和/或其组合 (4-甲基亚苄 基樟脑, 4-MBC)/ (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methyle ne]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	---	---	0.005	N.D.

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221	6,6'-二叔丁基-2,2'-亚甲基二对甲酚 /(DBMC)/2,2'-Methylenebis(6-tert-butyl-4-methylphenol)	204-327-1	119-47-1	0.005	N.D.
222	S-(三环[5.2.1.0 ^{2,6}]癸-3-烯-8(或 9)-基) O-(异丙基或异丁基或 2-乙基己基) O-(异丙基或异丁基或 2-乙基己基)二硫代磷酸酯/ S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	401-850-9	255881-94-8	0.005	N.D.
223	三(2-甲氧基乙氧基)乙烯基硅烷 /Vinyltris(2-methoxyethoxy)silane	213-934-0	1067-53-4	0.005	N.D.
224	N-羟甲基(丙烯酰胺)/N-(hydroxymethyl)acrylamide	213-103-2	924-42-5	0.005	N.D.
225	1,2-双(2,4,6-三溴苯氧基)乙烷/ 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	253-692-3	37853-59-1	0.005	N.D.
226	四溴双酚 A/ 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	201-236-9	79-94-7	0.005	N.D.
227	双酚 S/ 4,4'-sulphonyldiphenol	201-250-5	80-09-1	0.005	N.D.
228	偏硼酸钡/ Barium diboron tetraoxide	237-222-4	13701-59-2	0.01	N.D.
229	四溴邻苯二甲酸双(2-乙基己基)酯, 涵盖任何单独的异构体和/或其组合/ Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	---	---	0.005	N.D.
230	尼泊金异丁酯/ Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3	0.005	N.D.
231	三聚氰胺/ Melamine	203-615-4	108-78-1	0.005	N.D.
232	全氟庚酸及其盐类/ Perfluoroheptanoic acid and its salts	---	---	0.005	N.D.

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233	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙-2-基)吗啉和 2,2,3,3,5,5,6,6-八氟-4-(七氟丙基)吗啉的反应物 料/ reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	473-390-7	---	0.005	N.D.
234	4,4'-二氨基二苯砜/bis(4-chlorophenyl) sulphone	---	80-07-9	0.005	N.D.
235	二苯基(2,4,6-三甲基苯甲酰基)氧化膦 /Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	---	75980-60-8	0.005	N.D.
236	2,4,6-三叔丁基苯酚/2,4,6-tri-tert-butylphenol	211-989-5	732-26-3	0.005	N.D.
237	2-(2'-羟基-5'-特辛基苯基)苯并三唑(紫外线吸收剂 UV-329) /2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	221-573-5	3147-75-9	0.005	N.D.
238	2-(二甲基氨基)-2-[(4-甲基苯基)甲基]-1-[4-(吗啉-4-基)苯基]丁-1-酮 (光引发剂 379) /2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	438-340-0	119344-86-4	0.005	N.D.
239	布美三唑(紫外线吸收剂 UV-326)/Bumetrizole	223-445-4	3896-11-5	0.005	N.D.
240	2-苯基丙烯与苯酚的低聚和烷基化反应产物 /Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	700-960-7	---	0.005	N.D.
241	过氧化二异丙苯/Bis(α,α-dimethylbenzyl) peroxide	201-279-3	80-43-3	0.005	N.D.

备注 1/Note 1 : 1) N.D. = 未检出, 小于方法检测限/Not detected, less than MDL.

备注 2/Note 2 : 1)根据 REACH 法规第 7 条第 4 款, 如果物质符合第 57 条中的标准并根据第 59 条第 1 款被确定, 该物品的任何制造商或进口商必须向欧洲化学品管理署进行通报:

(a) 物质在物品中的总含量超过 1 吨/年/每制造商或进口商;

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(b) 物质在物品中的总含量大于 0.1% (重量比 w/w)。In accordance with Regulation(EC) No. 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:

(a) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;

(b) the substance is present in those articles above a concentration of 0,1 % weight by weight (w/w).

2)自 2008 年 10 月 28 日起, 如果物品中含有超过 0.1% 含量的高关注物质 (SVHC), 欧盟及欧洲经济区的供应商应向其客户, 或是在消费者提出要求后 45 天内提交足够有效的信息, 该信息必须保证对该物品的安全使用, 且必须提交该 SVHC 的最小含量值。From 28 October 2008, EU & EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) must provide sufficient information, available to them, to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

备注 3/Note 3 : 1) *二氯化钴、硫酸钴、硝酸钴、碳酸钴和醋酸钴的含量是根据Co以及Cl⁻、SO₄²⁻、NO₃⁻、CO₃²⁻和[C₂H₃O₂]⁻的含量计算得到的; 五氧化二砷, 三氧化二砷, 砷酸氢铅, 三乙基砷酸酯, 三氧化铬, 重铬酸钠, 铬酸铅, 铬酸钠, 铬酸钾, 重铬酸铵, 重铬酸钾, 钼铬红, 铅铬黄, 三氧化铬衍生物, 铬酸锶, 苦味酸铅, 2,4,6-三硝基苯二酚铅, 叠氮化铅, 砷酸铅, 砷酸钙, 砷酸, 氢氧化铬酸锌钾, 铬酸铬, 锌黄, 甲磺酸铅(II), 三氧化二硼, 碱式乙酸铅, 碱式碳酸铅, 碱式硫酸铅, [1,2-苯二羧酸根合]二氧化三铅, 双(十八烷基)二氧代三铅, C16-18-脂肪酸铅盐, 四氟硼酸铅, 氨基氰铅盐, 硝酸铅, 氧化铅, 四氧化三铅, 铅丹, 钛酸铅, 钛酸铅锆, 氧化铅与硫酸铅的复合物, C.I.颜料黄 41, 铅掺杂的硅钡酸盐, 硅酸铅, 亚硫酸铅(II), 四乙基铅, 三碱式硫酸铅, 磷酸氧化铅, 氧化镉, 硫化镉, 醋酸铅(II), 硫酸镉的含量是根据测定各重金属元素的含量计算得到; 硼酸, 无水四硼酸钠, 七水合四硼酸钠的含量是根据测定硼元素和钠元素的含量计算得到; 过硼酸钠、过硼酸钠盐的含量是根据测定硼元素和钠元素的含量计算得到; 氯化镉的含量是根据测定氯元素和镉元素的含量计算得到; 氟化镉的含量是根据测定氟元素和镉元素的含量计算得到。上述方法还有待进一步证实。 / Calculated concentration of cobalt dichloride, cobalt(II) sulphate, cobalt(II) dinitrate, cobalt(II) carbonate and cobalt(II) diacetate is based on the identified heavy metal and anion result. Calculated concentration of diarsenic pentaoxide, diarsenic trioxide, chromium trioxide, sodium dichromate, dehydrate, lead hydrogen arsenate, triethyl arsenate, lead chromate, sodium chromate, strontium chromate, potassium chromate, ammonium dichromate, potassium dichromate, lead chromate molybdate sulfate red, lead sulfochromate yellow and acids generated from chromium trioxide and their oligomers, Lead dipicrate, Lead styphnate, Lead azide Lead diazide, Trilead diarsenate, Calcium arsenate, Arsenic acid, Potassium hydroxyoctaoxodizincatedi-chromate, Dichromium tris(chromate), Pentazinc chromate

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octahydroxide, Lead(II) bis(methanesulfonate), Diboron trioxide ,Acetic acid, lead salt, basic, Basic lead carbonate (trilead bis(carbonate)dihydroxide), Lead oxide sulfate (basic lead sulfate), [Phthalato(2-)]dioxotrilead (dibasic lead phthalate), Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Lead bis(tetrafluoroborate), Lead cyanamate, Lead dinitrate, Lead oxide (lead monoxide), Lead tetroxide (orange lead), Lead titanium trioxide, Lead Titanium Zirconium Oxide , Pentalead tetraoxide sulphate , Pyrochlore, antimony lead yellow ,Silicic acid, barium salt, lead-doped , Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Cadmium oxide, Cadmium sulphide, Lead di(acetate) (II), Cadmium sulphate are based on the identified heavy metal result, boric acid, disodium tetraborate, anhydrous and tetraboron disodium heptaoxide, hydrate, Sodium perborate; perboric acid, sodium salt , Sodium peroxometaborate are based on the identified result of boron and sodium result. Cadmium chloride is based on the identified result of cadmium and chloride result. Cadmium fluoride is based on the identified result of cadmium and fluoride result. The identities of above metal substances present in the article have to be further confirmed;

2) **三丁基氧化锡-TBTO 的含量是根据三丁基锡和 TBT 计算得到。报告中所列 TBTO 的含量是根据观测的方法来测得的，其精确含量需经进一步的研究来获得； / Concentration of bis(tributyltin)oxide, TBTO is reported as tributyltin, TBT. The result is a screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is needed to have the exact amount of TBTO;

3) ***铝硅酸盐，耐熔性陶瓷纤维;氧化锆铝酸盐，耐熔性陶瓷纤维的含量是根据硅、铝和锆三种元素的含量计算得到并经显微镜确认；

/ Calculated concentration of Aluminosilicate, Refractory Ceramic Fibres ;Zirconia Aluminosilicate, Refractory Ceramic Fibres is based on the identified heavy metal result and confirmation by microscope;

4) ****该物质是基于其含有的致癌成分米氏酮的重量百分比 $\geq 0.1\%$ 考虑的；

/The substance does only fulfil the criteria of REACH Art. 57 (a) if it contains Michler's ketone (EC Number: 202-027-5) or Michler's base (EC Number: 202-959-2) in a concentration $\geq 0.1\%$;

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4.2、RoHS 2.0

检测项目 Test Items	检测方法 Methods	方法检测限 MDL (mg/kg)	检测结果 Results (mg/kg)	法规限值* Limits (mg/kg)
铅/Pb	M1	2	N.D.	1000
镉/Cd		2	N.D.	100
汞/Hg	M2	2	N.D.	1000
六价铬/Cr (VI)	M3	8	N.D.	1000
一溴联苯/Monobromobiphenyl (MonoBB)	M4	5	N.D.	---
二溴联苯/Dibromobiphenyl (DiBB)		5	N.D.	---
三溴联苯/Tribromobiphenyl (TriBB)		5	N.D.	---
四溴联苯/Tetrabromobiphenyl (TetraBB)		5	N.D.	---
五溴联苯/Pentabromobiphenyl (PentaBB)		5	N.D.	---
六溴联苯/Hexabromobiphenyl (HexaBB)		5	N.D.	---
七溴联苯/Heptabromobiphenyl (HeptaBB)		5	N.D.	---
八溴联苯/Octabromobiphenyl (OctaBB)		5	N.D.	---
九溴联苯/Nonabromobiphenyl (NonaBB)		5	N.D.	---
十溴联苯/Decabromobiphenyl (DecaBB)		5	N.D.	---
上述多溴联苯总和/Total PBBs sum of above		---	N.D.	1000
一溴二苯醚/Monobromodiphenyl ether (MonoBDE)		5	N.D.	---
二溴二苯醚/Dibromodiphenyl ether (DiBDE)		5	N.D.	---
三溴二苯醚/Tribromodiphenyl ether (TriBDE)		5	N.D.	---
四溴二苯醚/Tetrabromodiphenyl ether (TetraBDE)		5	N.D.	---
五溴二苯醚/Pentabromodiphenyl ether (PentaBDE)		5	N.D.	---
六溴二苯醚/Hexabromodiphenyl ether (HexaBDE)		5	N.D.	---
七溴二苯醚/Heptabromodiphenyl ether (HeptaBDE)		5	N.D.	---
八溴二苯醚/Octabromodiphenyl ether (OctaBDE)		5	N.D.	---
九溴二苯醚/Nonabromodiphenyl ether (NonaBDE)		5	N.D.	---
十溴二苯醚/Decabromodiphenyl ether (DecaBDE)		5	N.D.	---
上述多溴二苯醚总和/Total PBDEs sum of above		---	N.D.	1000

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邻苯二甲酸二丁酯/Dibutyl Phthalate (DBP)	M5	30	N.D.	1000
邻苯二甲酸丁基苄基酯/Benzylbutyl Phthalate (BBP)		30	N.D.	1000
邻苯二甲酸二(2-乙基己基)酯 /Di-(2-ethylhexyl)Phthalate (DEHP)		30	N.D.	1000
邻苯二甲酸二异丁酯/Diisobutyl phthalate(DIBP)		30	N.D.	1000

注意/Remark : *报告中述及的法规限值根据是欧盟 RoHS 指令 2011/65/EU 附录 II 及其修订指令 (EU)2015/863 的限值要求。/The Limits are based on the requirements of EU RoHS Directive 2011/65/EU Annex II and its amending Directive (EU)2015/863.

4.3、卤素/Halogen

检测项目 Test Item	检测方法 Methods	方法检测限 MDL (mg/kg)	检测结果 Results (mg/kg)	限值** Limits (mg/kg)
氟/Fluorine (F)	M6	30	N.D.	---
氯/Chlorine (Cl)		30	N.D.	900
溴/Bromine (Br)		30	N.D.	900
碘/Iodine (I)		30	N.D.	---
总计/Total (Cl+Br)		---	N.D.	1500

注意/Remark : **报告中述及的限值根据是 IEC 61249-2-21:2003 的要求。/The Limits are based on the requirements of IEC 61249-2-21:2003.

.....接下页/ To be continued.....

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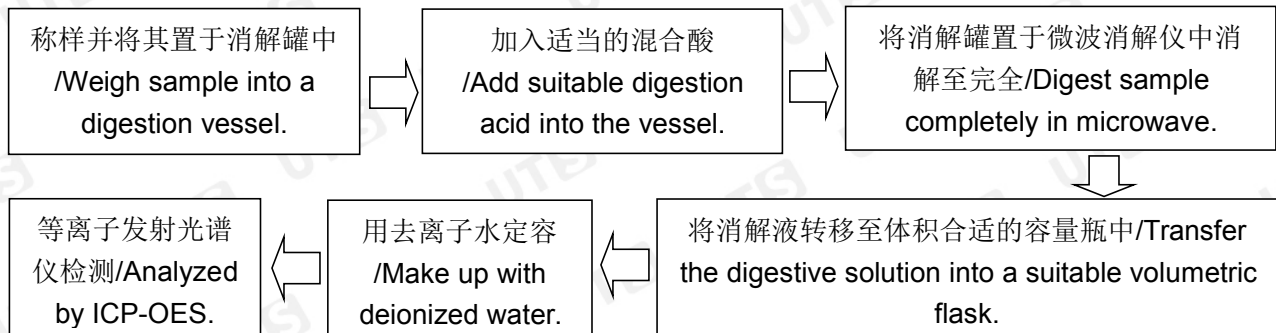
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- 备注 1) “---” = 未明确规定/Not Regulated.
- /Note : 2) N.D. = 未检出, 小于方法检测限/Not detected, less than MDL.
- 3) M1: 参考 IEC 62321-5: 2013, 采用电感耦合等离子体发射光谱仪进行测定。
 With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.
- 4) M2: 参考 IEC 62321-4: 2013+AMD1: 2017CSV, 采用电感耦合等离子体发射光谱仪进行测定。
 With reference to IEC 62321-4: 2013+AMD1: 2017CSV, analysis was performed by ICP-OES.
- 5) M3: 参考 IEC 62321-7-2: 2017, 采用紫外可见分光光度计进行测定。
 With reference to IEC 62321-7-2: 2017, analysis was performed by UV-Vis.
- 6) M4: 参考 IEC 62321-6: 2015, 采用气相色谱质谱联用仪进行测定。
 With reference to IEC 62321-6: 2015, analysis was performed by GC-MS.
- 7) M5: 参考 IEC 62321-8: 2017, 采用气相色谱质谱联用仪进行测定。
 With reference to IEC 62321-8: 2017, analysis was performed by GC-MS.
- 8) M6: 参考 EN 14582: 2016, 采用离子色谱法(IC)进行检测。
 With reference to EN 14582: 2016, analysis was performed by IC.

检测部位描述/TEST PART DESCRIPTION: 非金属/Non-metal

检测流程图/FLOW CHART

1. Pb、Cd、Hg 检测/Test for Pb, Cd, Hg Content

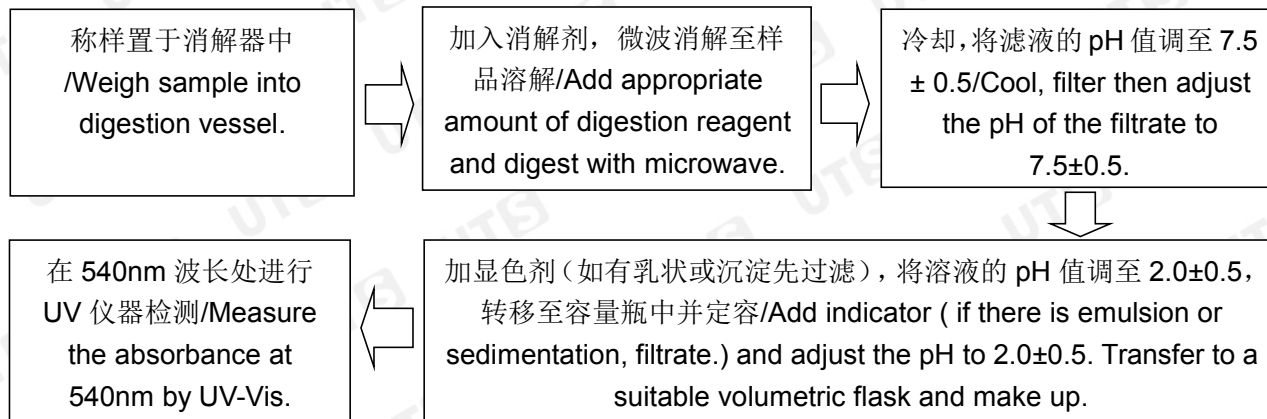


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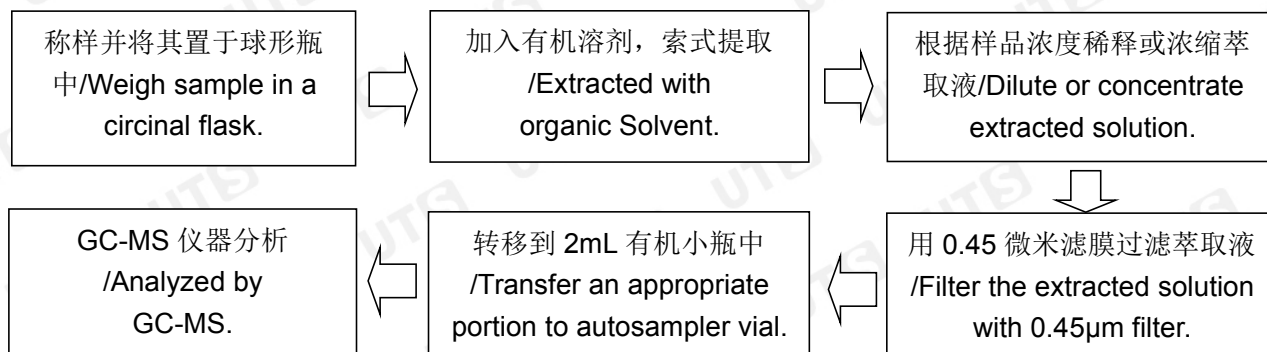
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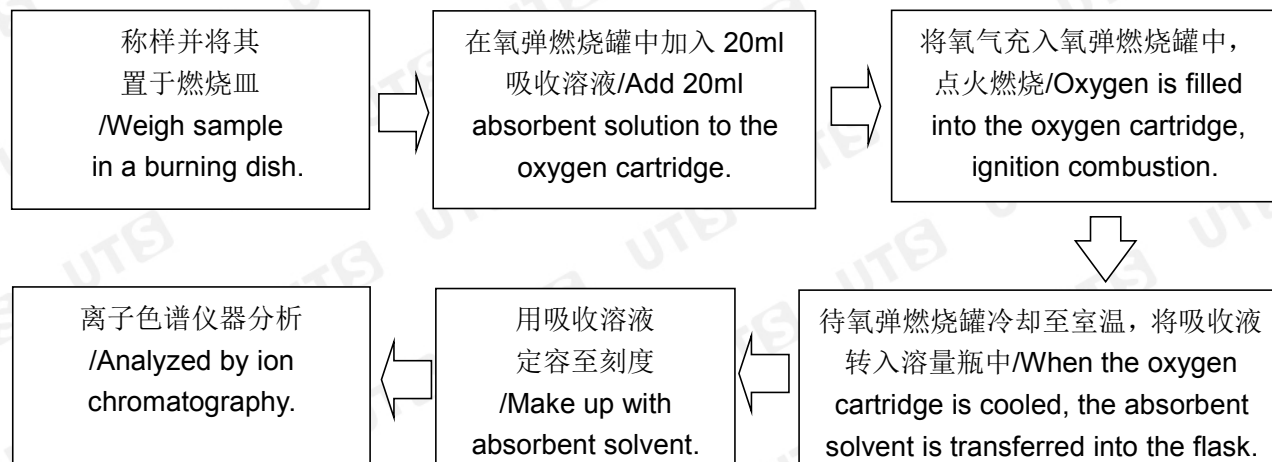
2. 六价铬 Cr (VI) 检测/Test for Chromium (VI) Content



3. 多溴联苯&多溴二苯醚和邻苯二甲酸酯检测 /Test for PBBs&PBDEs and Phthalates



4. 卤素检测/Test for halogen Content



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5. REACH 241 检测/Test for REACH 241

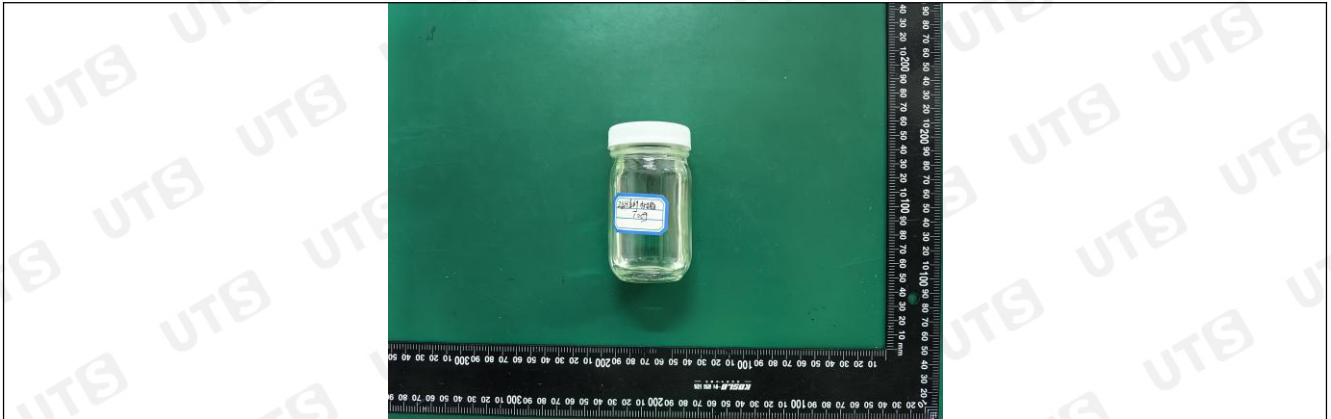
称样置于消解器中
/Weigh sample into a digestion vessel.

酸式消解或溶剂萃取方式进行样品前处理/Digest or
extract sample completely.

数据分析
/Data analysis

ICP-OES/UV-Vis/ IC/GC-MS/HPLC 或 GC-ECD 分析
/Analysed with ICP-OES/UV-Vis/ IC/GC-MS /
GC-ECD and HPLC

5、样品照片/Sample photo(s)



.....报告结束/End of Report.....

本报告中结果仅作为科研、教学或内部质量控制之用。

Test results in this report are only used for scientific research, teaching and internal quality control.