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关注谱尼测试

测试报告 Test Report 报告编号 NO.: MRC8W2HG4441877D3a 签发日期(Issued Date): 2023-10-24 Page 1 of 39

委托单位 Applicant: ASSKEA GmbH

委托单位提供样品信息如下:

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

样品名称 Sample Name: 可充电锂离子电池 Rechargeable Li-Ion Battery

样品型号 Sample Model: HD11.1-5 (11.1V5Ah) 3S1P NMC21700

测试部位 Test Component: 请参见结果页 See the Results Page

样品接收日期 Sample Received Date: 2023-10-08

样品测试日期 Testing Period: 2023-10-08 ~ 2023-10-16

参考要求 Reference Requested:

基于欧洲化学品管理署于 2023 年 6 月 14 日公告的供授权审议的高关注物质列入候选清单 (根据欧盟第 1907/2006 号 REACH 法规), 根据客户要求进行了筛选测试。

Very High Concern (SVHC) testing Based on the list published by European Chemicals Agency (ECHA) on 14 Jun 2023, regarding Regulation (EC) No 1907/2006 concerning the REACH. Screening tests based on customer requirements.

测试结果 Test result(s):

请参见下页 Please refer to next page(s)

摘要 Summary:

根据分析结果, 所检样品中 235 项 SVHC 浓度均小于 0.1%。

According to the analytical results, concentrations of 235 SVHC substances are less than 0.1% in the submitted sample.

批准人 Approved by:

毛和青



微信扫一扫, 使用小程序



小程序扫一扫, 在线验证

Code: 2brt9i6





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(1) 235 种高关注物质 (SVHC) 235 Substances of Very High Concern(SVHC)

参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
1	蒽 Anthracene	参考 Refer to EPA 3540C:1996& EPA 8270E:2018, GC-MS	持久性,生物积 累性和毒性物质 PBT	120-12-7	204-371-1	0.0005
2	邻苯二甲酸丁苄酯 Benzyl butyl phthalate (BBP)	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物 质 Toxic for reproduction	85-68-7	201-622-7	0.003
3	邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物 质 Toxic for reproduction	84-74-2	201-557-4	0.003
4	邻苯二甲酸二(2-乙基)己酯 Bis (2-ethylhexyl)phthalate (DEHP)	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物 质 Toxic for reproduction	117-81-7	204-211-0	0.003
5	六溴环十二烷及其非对映异构体 Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	参考 Refer to EPA 3540C:1996, GC-MS	持久性,生物积 累性和毒性物质 PBT	25637-99-4/ 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4/ 221-695-9	0.005
6	4,4'-二氨基二苯基甲烷 4,4'-Diaminodiphenylmethane (MDA)	参考 Refer to EN 14362-1:2017, GC-MS	致癌性物质 Carcinogen	101-77-9	202-974-4	0.005
7	C10-13 短链氯化石蜡 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	参考 Refer to EPA 3540C:1996, GC-MS	持久性,生物积 累性和毒性物 质;高持久性和 高度生物积累性 物质 PBT; vPvB	85535-84-8	287-476-5	0.01
8	二甲苯麝香 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	参考 Refer to EPA 3540C:1996, GC-MS	高持久性和高度 生物积累性物质 vPvB	81-15-2	201-329-4	0.005
9*	三乙基砷酸酯 ⁽¹⁾ Triethyl arsenate ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	致癌性物质 Carcinogen	15606-95-8	427-700-2	0.005
10	氧化双三丁基锡 Bis(tributyltin)oxide(TBTO)	参考 Refer to DIN EN ISO 17353:2005, GC-MS	持久性,生物积 累性和毒性物质 PBT	56-35-9	200-268-0	0.01

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参考方法 Reference Method:

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11*	二氯化钴 ⁽¹⁾ Cobalt dichloride ⁽¹⁾	参考 Refer to EPA 3052:1996/ EN14582:2016, ICP-OES/IC	致癌性物质;生殖系统毒 性物质 Carcinogen, Toxic for reproduction	7646-79-9	231-589-4	0.01
12*	五氧化二砷 ⁽¹⁾ Diarsenic pentaoxide ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	致癌性物质 Carcinogen	1303-28-2	215-116-9	0.01
13*	三氧化二砷 ⁽¹⁾ Diarsenic trioxide ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	致癌性物质 Carcinogen	1327-53-3	215-481-4	0.01
14*	重铬酸钠 ⁽¹⁾ Sodium dichromate ⁽¹⁾	参考 Refer to EPA 3052:1996/ EPA 3060A:1996, EPA 9056A:2007, ICP-OES/UV-Vis	致癌性物质;致畸形物 质;生殖系统毒性物质 Carcinogen; Mutagen; Toxic for reproduction	7789-12-0, 10588-01-9	234-190-3	0.01
15*	砷酸氢铅 ⁽¹⁾ Lead hydrogen arsenate ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	致癌性物质;生殖系统毒 性物质 Carcinogen; Toxic for reproduction	7784-40-9	232-064-2	0.01
16	2,4-二硝基甲苯 2,4-Dinitrotoluene	内部方法 Pony-In-house method, GC-MS	致癌性物质 Carcinogen	121-14-2	204-450-0	0.01
17	蒽油 ⁽²⁾ Anthracene oil ⁽²⁾	内部方法 Pony-In-house method, GC-MS	致癌性物质;持久性,生 物积累性和毒性物质; 高持久性和高度生物积 累性物质 Carcinogen, PBT, vPvB	90640-80-5	292-602-7	0.050
18	蒽油, 蒽糊, 轻油 ⁽²⁾ Anthracene oil, anthracene paste, distr. Lights ⁽²⁾	内部方法 Pony-In-house method, GC-MS	致癌性物质;致畸形物 质;高持久性和高度生物 积累性物质 Carcinogen, mutagen, PBT and vPvB	91995-17-4	295-278-5	
19	蒽油, 蒽糊, 蒽馏分 ⁽²⁾ Anthracene oil, anthracene paste, anthracene fraction ⁽²⁾	内部方法 Pony-In-house method, GC-MS		91995-15-2	295-275-9	
20	蒽油, 含蒽量少 ⁽²⁾ Anthracene oil, anthracene-low ⁽²⁾	内部方法 Pony-In-house method, GC-MS		90640-82-7	292-604-8	
21	蒽油, 蒽糊 ⁽²⁾ Anthracene oil, anthracene paste ⁽²⁾	内部方法 Pony-In-house method, GC-MS		90640-81-6	292-603-2	
22	邻苯二甲酸二异丁酯 Diisobutyl phthalate	参考 Refer to EPA 8061A:1996, GC-MS		生殖系统毒性物质 Toxic for reproduction	84-69-5	201-553-2

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23*	铬酸铅 ⁽³⁾ Lead chromate ⁽³⁾	参考 Refer to EPA 3052:1996/ EPA 3060A:1996, ICP-OES/UV-Vis	致癌性物质;生殖系统 毒性物质 Carcinogen; Toxic for reproduction	7758-97-6	231-846-0	0.005
24*	钼铬红 (C.I.颜料红 104) ⁽³⁾ Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ⁽³⁾			12656-85-8	235-759-9	0.005
25*	铅铬黄 (C.I.颜料黄 34) ⁽³⁾ Lead sulfochromate yellow (C.I. Pigment Yellow 34) ⁽³⁾			1344-37-2	215-693-7	0.005
26	三(2-氯乙基)磷酸酯 Tris(2-chloroethyl)phosphate	内部方法 Pony-In-house method, GC-MS	生殖系统毒性物质 Toxic for reproduction	115-96-8	204-118-5	0.005
27	煤沥青, 高温 ⁽²⁾ Pitch, coal tar, high temp ⁽²⁾	内部方法 Pony-In-house method, GC-MS	持久性,生物积累性和 毒性物质; 致癌性物质; 高持久性和高度生物 积累性物质 Carcinogen, PBT, vPvB	65996-93-2	266-028-2	0.050
28	丙烯酰胺 Acrylamide	内部方法 Pony-In-house method, HPLC	致癌性物质;致畸形物 质 Carcinogen; Mutagen	79-06-1	201-173-7	0.005
29	三氯乙烯 Trichloroethylene	参考 Refer to EPA 5021:1996, GC-MS	致癌性物质 Carcinogen	79-01-6	201-167-4	0.01
30*	硼酸 ⁽¹⁾ Boric Acid ⁽¹⁾	内部方法 Pony-In-house method, ICP-OES	生殖系统毒性物质 Toxic for reproduction	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.01
31*	无水四硼酸钠 ⁽¹⁾ Disodium Tetraborate, Anhydrous ⁽¹⁾	内部方法 Pony-In-house method, ICP-OES	生殖系统毒性物质 Toxic for reproduction	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
32*	水合四硼酸钠 ⁽¹⁾ Tetraboron Disodium Heptaoxide, Hydrate ⁽¹⁾	内部方法 Pony-In-house method, ICP-OES	生殖系统毒性物质 Toxic for reproduction	12267-73-1	235-541-3	0.01
33*	铬酸钠 ⁽¹⁾ Sodium Chromate ⁽¹⁾	内部方法 Pony-In-house method, UV-Vis	致癌性物质;致畸形物 质;生殖系统毒性物质 Carcinogen, Mutagen, Toxic for reproduction	7775-11-3	231-889-5	0.01
34*	铬酸钾 ⁽¹⁾ Potassium Chromate ⁽¹⁾	内部方法 Pony-In-house method, UV-Vis	致癌性物质;致畸形物 质 Carcinogen, Mutagen	7789-00-6	232-140-5	0.01

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参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
35*	重铬酸钾 ⁽¹⁾ Potassium Dichromate ⁽¹⁾	内部方法 Pony-In-house method, UV-Vis	致癌性物质;致畸形物质,生殖系统毒性物质 Carcinogen, Mutagen, Toxic for reproduction	7778-50-9	231-906-6	0.01
36*	重铬酸铵 ⁽¹⁾ Ammonium dichromate ⁽¹⁾	内部方法 Pony-In-house method, UV-Vis	致癌性物质;致畸形物质;生殖系统毒性物质 Carcinogen, Mutagen, Toxic for reproduction	7789-09-5	232-143-1	0.01
37*	硫酸钴 ⁽¹⁾ Cobalt(II) sulphate ⁽¹⁾	内部方法 Pony-In-house method, ICP-OES	致癌性物质;生殖系统毒性物质 Carcinogen, Toxic for reproduction	10124-43-3	233-334-2	0.01
38*	硝酸钴 ⁽¹⁾ Cobalt(II) dinitrate ⁽¹⁾	内部方法 Pony-In-house method, ICP-OES	致癌性物质;生殖系统毒性物质 Carcinogen, Toxic for reproduction	10141-05-6	233-402-1	0.01
39*	碳酸钴 ⁽¹⁾ Cobalt(II) carbonate ⁽¹⁾	内部方法 Pony-In-house method, ICP-OES	致癌性物质;生殖系统毒性物质 Carcinogen, Toxic for reproduction	513-79-1	208-169-4	0.01
40*	醋酸钴 ⁽¹⁾ Cobalt(II) diacetate ⁽¹⁾	内部方法 Pony-In-house method, ICP-OES	致癌性物质;生殖系统毒性物质 Carcinogen, Toxic for reproduction	71-48-7	200-755-8	0.01
41	2-甲氧基乙醇 2-Methoxyethanol	内部方法 Pony-In-house method, GC-MS	生殖系统毒性物质 Toxic for reproduction	109-86-4	203-713-7	0.01
42	2-乙氧基乙醇 2-Ethoxyethanol	内部方法 Pony-In-house method, GC-MS	生殖系统毒性物质 Toxic for reproduction	110-80-5	203-804-1	0.01
43*	三氧化铬 ⁽¹⁾ Chromium trioxide ⁽¹⁾	内部方法 Pony-In-house method, UV-Vis	致癌性物质;致畸形物质 Carcinogen, Mutagen	1333-82-0	215-607-8	0.01
44*	三氧化二铬及其低聚物产生的酸 ⁽¹⁾ Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers ⁽¹⁾	铬酸 Chromic acid	内部方法 Pony-In-house method, UV-Vis	7738-94-5 13530-68-2	231-801-5 236-881-5	0.01
		二铬酸 Dichromic acid				0.01
		铬酸及二铬酸的低聚物 Oligomers of chromic acid and dichromic acid				0.01

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参考方法 Reference Method:

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45	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	内部方法 Pony-In-house method, GC-MS	生殖系统毒性物质 Toxic for reproduction	111-15-9	203-839-2	0.01
46*	铬酸锶 ⁽¹⁾ strontium chromate ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018 ICP-OES	致癌性物质 Carcinogen	7789-06-2	232-142-6	0.01
47	1,2 苯二酸-二 (C7-11 支链-直链) 烷基 (醇) 酯 ⁽²⁾ 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters ⁽²⁾	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物质 Toxic for reproduction	68515-42-4	271-084-6	0.01
48	联胺, 也称肼 Hydrazine	内部方法 Pony-In-house method, UV-Vis	致癌性物质 Carcinogen	7803-57-8 302-01-2	206-114-9	0.01
49	1-甲基-2-吡咯烷酮 1-methyl-2-pyrrolidone	参考 Refer to EPA 8270E:2018, GC-MS	生殖系统毒性物质 Toxic for reproduction	872-50-4	212-828-1	0.01
50	1,2,3-三氯丙烷 1,2,3-trichloropropane	参考 Refer to EPA 5021:1996, GC-MS	致癌性物质; 生殖系统毒性物质 Carcinogen, Toxic for reproduction	96-18-4	202-486-1	0.01
51	邻苯二甲酸-二(C6-8 支链与直链) 烷基酯, 富 C7 ⁽²⁾ 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich ⁽²⁾	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物质 Toxic for reproduction	71888-89-6	276-158-1	0.01
52*	铬酸铬 ⁽¹⁾ Dichromium tris(chromate) ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	致癌性物质 Carcinogen	24613-89-6	246-356-2	0.01
53*	氢氧化铬酸锌钾 ⁽¹⁾ Potassium hydroxyoctaoxidizincatedichromate ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	致癌性物质 Carcinogen	11103-86-9	234-329-8	0.01
54*	锌黄(C.I. 颜料黄 36) ⁽³⁾ Pentazinc chromate octahydroxide ⁽³⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	致癌性物质 Carcinogen	49663-84-5	256-418-0	0.01
55*	硅酸铝耐火陶瓷纤维 ⁽³⁾ Aluminosilicate Refractory Ceramic Fibres (RCF) ⁽³⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	致癌性物质 Carcinogen	—	—	0.01
56*	氧化锆硅酸铝耐火陶瓷纤维 ⁽³⁾ Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) ⁽³⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	致癌性物质 Carcinogen	—	—	0.01

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57	甲醛苯胺共聚物 ⁽³⁾ Formaldehyde, oligomeric reaction products with aniline ⁽³⁾	内部方法 Pony-In-house method, FTIR	致癌性物质 Carcinogen	25214-70-4	500-036-1	0.05
58	邻苯二甲酸二甲氧乙酯 Bis(2-methoxyethyl) phthalate	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物质 Toxic for reproduction	117-82-8	204-212-6	0.003
59	邻氨基苯甲醚 2-Methoxyaniline; o-Anisidine	参考 Refer to EN 14362-1:2017, GC-MS	致癌性物质 Carcinogen	90-04-0	201-963-1	0.005
60	对特辛基苯酚 4-(1,1,3,3-tetramethylbutyl) phenol	内部方法 Pony-In-house method, GC-MS	等效关注 Equivalent concern	140-66-9	205-426-2	0.005
61	1,2-二氯乙烷 1,2-Dichloroethane	参考 Refer to EPA 5021:1996, GC-MS	致癌性物质 Carcinogen	107-06-2	203-458-1	0.01
62	二乙二醇二甲醚 Bis(2-methoxyethyl) ether	参考 Refer to EPA 8270E:2018, GC-MS	生殖系统毒性物质 Toxic for reproduction	111-96-6	203-924-4	0.01
63*	砷酸 ⁽¹⁾ Arsenic acid ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	致癌性物质 Carcinogen	7778-39-4	231-901-9	0.01
64*	砷酸钙 ⁽¹⁾ Calcium arsenate ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	致癌性物质 Carcinogen	7778-44-1	231-904-5	0.01
65*	砷酸铅 ⁽¹⁾ Trilead diarsenate ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	致癌性物质; 生殖系统毒性物质 Carcinogen; Toxic for reproduction	3687-31-8	222-979-5	0.01
66	N,N-二甲基乙酰胺 N,N-dimethylacetamide	参考 Refer to EPA 3550C:2007, GC-MS	生殖系统毒性物质 Toxic for reproduction	127-19-5	204-826-4	0.01
67	酚酞 Phenolphthalein	内部方法 Pony-In-house method, HPLC	致癌性物质 Carcinogen	77-09-8	201-004-7	0.01
68	4,4'-亚甲基双-2-氯苯胺 2,2'-dichloro-4,4'-methylenedia niline	参考 Refer to EN 14362-1:2017, GC-MS	致癌性物质 Carcinogen	101-14-4	202-918-9	0.005

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69*	叠氮化铅 ⁽¹⁾ Lead diazide, Lead azide ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	13424-46-9	236-542-1	0.01
70*	2,4,6-三硝基苯二酚铅 ⁽¹⁾ Lead styphnate ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	15245-44-0	239-290-0	0.01
71*	苦味酸铅 ⁽¹⁾ Lead dipicrate ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	6477-64-1	229-335-2	0.01
72	1,2 双(2-甲氧乙氧基)乙烷(三甘醇二甲醚) 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	参考 Refer to EPA 8270E:2018, GC-MS	生殖系统毒性物质 Toxic for reproduction	112-49-2	203-977-3	0.01
73	乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	参考 Refer to EPA 8270E:2018, GC-MS	生殖系统毒性物质 Toxic for reproduction	110-71-4	203-794-9	0.01
74*	三氧化二硼 ⁽¹⁾ Diboron trioxide ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	1303-86-2	215-125-8	0.01
75	甲酰胺 Formamide	参考 Refer to EPA 8270E:2018, GC-MS	生殖系统毒性物质 Toxic for reproduction	75-12-7	200-842-0	0.01
76*	甲基磺酸铅 ⁽¹⁾ Lead(II) bis(methanesulfonate) ⁽¹⁾	参考 Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	17570-76-2	401-750-5	0.01
77	异氰尿酸三缩水甘油酯 TGIC 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	内部方法 Pony-In-house method, GC-MS	致畸形物质 Mutagen	2451-62-9	219-514-3	0.01
78	1,3,5-三-(2S 和 2R)-2,3-环氧丙基]-1,3,5 三嗪-2,4,6-三酮 ⁽⁴⁾ β-TGIC 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) ⁽⁴⁾	参考 Refer to EPA 8270E:2018, GC-MS	致畸形物质 Mutagen	59653-74-6	423-400-0	0.01

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79	4'-二(N,N-二甲氨基)二苯甲酮(四乙基米氏酮) 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	参考 Refer to EPA 8270E:2018, GC-MS	致癌性物质 Carcinogen	90-94-8	202-027-5	0.01
80	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱) N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	参考 Refer to EPA 8270E:2018, GC-MS	致癌性物质 Carcinogen	101-61-1	202-959-2	0.01
81	结晶紫[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	内部方法, HPLC Pony-In-house method, HPLC	致癌性物质 Carcinogen	548-62-9	208-953-6	0.01
82	碱性蓝 [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	内部方法, HPLC Pony-In-house method, HPLC	致癌性物质 Carcinogen	2580-56-5	219-943-6	0.01
83	A,A-二[4-(二甲氨基)苯基]-4-苯基氨基-1-萘甲醇(溶剂蓝4) α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	内部方法, HPLC Pony-In-house method, HPLC	致癌性物质 Carcinogen	6786-83-0	229-851-8	0.01
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	内部方法, HPLC Pony-In-house method, HPLC	致癌性物质 Carcinogen	561-41-1	209-218-2	0.01
85	十溴联苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	参考 Refer to IEC 62321-6 Edition 1.0:2015, GC-MS	持久性,生物累积性和毒性物质;高持久性和高度生物累积性物质 PBT, vPvB	1163-19-5	214-604-9	0.005
86	全氟十三酸 Pentacosfluorotridecanoic acid	参考 Refer to EPA 3550C:2007 LC-MS/MS	高持久性和高度生物累积性物质 vPvB	72629-94-8	276-745-2	0.005
87	全氟十二烷酸 Tricosfluorododecanoic acid			307-55-1	206-203-2	0.005

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88	全氟十一烷酸 Henicosfluoroundecanoic acid	参考 Refer to EPA 3550C:2007 LC-MS/MS	高持久性和高度 生物累积性物质 vPvB	2058-94-8	218-165-4	0.005
89	全氟代十四酸 Heptacosfluorotetradecanoic acid			376-06-7	206-803-4	0.005
90	对特辛基苯酚, 乙氧基-包括界定明确的物质以及 UVCB 物质、聚合物和同系物 ⁽²⁾ 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated ⁽²⁾	参考 Refer to EPA 3550C:2007 GC-MS	等效关注 Equivalent concern	—	—	0.01
91	分支或线性的壬基酚, 含有线性或分支、共价绑定苯酚的 9 个碳烷基链的物质, 包括 UVCB 物质以及任何含有独立或组合的界定明确的同分异构体的物质 ⁽²⁾ 4-Nonylphenol, branched and linear ⁽²⁾		等效关注 Equivalent concern	—	—	0.01
92	偶氮二甲酰胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	参考 Refer to EPA 3550C:2007 HPLC	等效关注 Equivalent concern	123-77-3	204-650-8	0.005
93	六氢邻苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	参考 Refer to EPA 3540C:1996 GC-MS	等效关注 Equivalent concern	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.01
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		等效关注 Equivalent concern	25550-51-0、 19438-60-9、 48122-14-1、 57110-29-9	247-094-1、 243-072-0、 256-356-4、 260-566-1	0.01

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95	甲氧基乙酸 Methoxy acetic acid	参考 Refer to EPA 3550C:2007 GC-MS	生殖系统毒性物质;等效关注 Toxic for reproduction; Equivalent concern	625-45-6	210-894-6	0.01
96	支链和直链 1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	参考 Refer to EPA 8061A:1996 GC-MS	生殖系统毒性物质 Toxic for reproduction	84777-06-0	284-032-2	0.01
97	邻苯二甲酸二异戊酯 Diisopentylphthalate			605-50-5	210-088-4	0.003
98	邻苯二甲酸正戊基异戊基酯 N-pentyl-isopentylphthalate			776297-69-9	—	0.003
99	乙二醇二乙醚 1,2-Diethoxyethane	参考 Refer to EPA 3550C:2007, GC-MS	生殖系统毒性物质 Toxic for reproduction	629-14-1	211-076-1	0.01
100	N,N-二甲基甲酰胺 N,N-dimethylformamide	参考 Refer to EPA 3550C:2007 GC-MS	生殖系统毒性物质 Toxic for reproduction	68-12-2	200-679-5	0.005
101	二丁基二氯化锡 Dibutyltin dichloride (DBTC)	参考 Refer to DIN EN ISO 17353:2005 GC-MS	生殖系统毒性物质 Toxic for reproduction	683-18-1	211-670-0	0.01
102*	碱式乙酸铅 ⁽¹⁾ Acetic acid, lead salt, basic ⁽¹⁾	参考 Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	51404-69-4	257-175-3	0.01
103*	碱式碳酸铅 ⁽¹⁾ trilead bis(carbonate)dihydroxide ⁽¹⁾			1319-46-6	215-290-6	0.01
104*	碱式硫酸铅 ⁽¹⁾ lead oxide sulphate ⁽¹⁾			12036-76-9	234-853-7	0.01
105*	二盐基邻苯二甲酸铅 ⁽¹⁾ [Phthalato(2-)]dioxotrilead ⁽¹⁾	参考 Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018/ EPA 3550C:2007, ICP-OES & GC-MS	生殖系统毒性物质 Toxic for reproduction	69011-06-9	273-688-5	0.01
106*	双(十八酸基)二氧代三铅 ⁽¹⁾ Dioxobis(stearato)trilead ⁽¹⁾			12578-12-0	235-702-8	0.01
107*	C16-18-脂肪酸铅盐 ⁽¹⁾ Fatty acids, C16-18, lead salts ⁽¹⁾			91031-62-8	292-966-7	0.01
108*	氟硼酸铅 ⁽¹⁾ Lead bis(tetrafluoroborate) ⁽¹⁾	参考 Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	13814-96-5	237-486-0	0.01
109*	氨基氰铅盐 ⁽¹⁾ Lead cyanamide ⁽¹⁾			20837-86-9	244-073-9	0.01

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110*	硝酸铅 ⁽¹⁾ Lead dinitrate ⁽¹⁾	参考 Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	10099-74-8	233-245-9	0.01
111*	氧化铅 ⁽¹⁾ Lead monoxide (lead oxide) ⁽¹⁾			1317-36-8	215-267-0	0.01
112*	四氧化三铅 ⁽¹⁾ Orange lead (lead tetroxide) ⁽¹⁾			1314-41-6	215-235-6	0.01
113*	钛酸铅 ⁽¹⁾ Lead titanium trioxide ⁽¹⁾	参考 Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018/ EPA 3050B:1996, ICP-OES	生殖系统毒性物质 Toxic for reproduction	12060-00-3	235-038-9	0.01
114*	钛酸铅锆 ⁽¹⁾ Lead Titanium Zirconium Oxide ⁽¹⁾			12626-81-2	235-727-4	0.01
115*	氧化铅与硫酸铅的复合物 ⁽³⁾ Pentalead tetraoxide sulphate ⁽³⁾			12065-90-6	235-067-7	0.01
116*	颜料黄 41 ⁽³⁾ Pyrochlore, antimony lead yellow ⁽³⁾			8012-00-8	232-382-1	0.01
117*	铅掺杂的硅钡酸盐 ⁽³⁾ Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped ⁽³⁾	参考 Refer to EPA 3052:1996/ EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	68784-75-8	272-271-5	0.01
118*	硅酸铅 ⁽¹⁾ Silicic acid, lead salt ⁽¹⁾			11120-22-2	234-363-3	0.01
119*	亚硫酸铅 (II) ⁽¹⁾ Sulfurous acid, lead salt, dibasic ⁽¹⁾			62229-08-7	263-467-1	0.01
120*	四乙基铅 ⁽¹⁾ Tetraethyllead ⁽¹⁾	参考 Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018/ EPA 3550C:2007, ICP-OES & GC-MS	生殖系统毒性物质 Toxic for reproduction	78-00-2	201-075-4	0.01
121*	三碱式硫酸铅 ⁽¹⁾ Tetralead trioxide sulphate ⁽¹⁾	参考 Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	12202-17-4	235-380-9	0.01
122*	磷酸氧化铅 ⁽¹⁾ Trilead dioxide phosphonate ⁽¹⁾			12141-20-7	235-252-2	0.01
123	呋喃 Furan	参考 Refer to EPA 5021:1996, GC-MS	致癌性物质 Carcinogen	110-00-9	203-727-3	0.01
124	环氧丙烷 Methyloxirane (Propylene oxide)		致癌性物质;致畸 形物质 Carcinogen, Mutagen	75-56-9	200-879-2	0.01

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125	硫酸二乙酯 Diethyl sulphate	参考 Refer to EPA 3550C:2007, HPLC	致癌性物质;致 畸形物质 Carcinogen, Mutagen	64-67-5	200-589-6	0.01
126	硫酸二甲酯 Dimethyl sulphate		致癌性物质 Carcinogen	77-78-1	201-058-1	0.01
127	3-乙基-2-甲基-2-(3-甲基丁基)-1,3- 噁唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)- -1,3-oxazolidine	参考 Refer to EPA 3550C:2007 GC-MS	生殖系统毒性物 质 Toxic for reproduction	143860-04-2	421-150-7	0.01
128	地乐酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	参考 Refer to EPA 3550C:2007 GC-MS	生殖系统毒性物 质 Toxic for reproduction	88-85-7	201-861-7	0.01
129	4,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine	参考 Refer to EN 14362-1&3:2017, GC-MS	致癌性物质 Carcinogen	838-88-0	212-658-8	0.005
130	4,4'-二氨基二苯醚 4,4'-oxydianiline and its salts		致癌性物质; 致 畸形物质 Carcinogen, Mutagen	101-80-4	202-977-0	0.005
131	4-氨基偶氮苯 4-Aminoazobenzene	参考 Refer to EN14362-1&3:2017, GC-MS	致癌性物质 Carcinogen	60-09-3	200-453-6	0.005
132	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (2,4-toluene-diamine)	参考 Refer to EN 14362-1:2017, GC-MS	致癌性物质 Carcinogen	95-80-7	202-453-1	0.01
133	2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine (p-cresidine)		致癌性物质 Carcinogen	120-71-8	204-419-1	0.01
134	4-氨基联苯 Biphenyl-4-ylamine		致癌性物质 Carcinogen	92-67-1	202-177-1	0.005
135	邻氨基偶氮甲苯 o-aminoazotoluene		致癌性物质 Carcinogen	97-56-3	202-591-2	0.005
136	邻甲基苯胺 o-Toluidine		致癌性物质 Carcinogen	95-53-4	202-429-0	0.005

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137	N-甲基乙酰胺 N-methylacetamide	参考 Refer to EPA 3550C:2007, GC-MS	生殖系统毒性物质 Toxic for reproduction	79-16-3	201-182-6	0.01
138	溴代正丙烷 1-bromopropane (n-propyl bromide)	参考 Refer to EPA 5021:1996, GC-MS	生殖系统毒性物质 Toxic for reproduction	106-94-5	203-445-0	0.01
139*	镉 Cadmium	参考 Refer to EPA 3052:1996, ICP-OES	致癌性物质; 等效关注 Carcinogen, Equivalent concern	7440-43-9	231-152-8	0.005
140*	氧化镉 ⁽¹⁾ Cadmium oxide ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	致癌性物质; 等效关注 Carcinogen, Equivalent concern	1306-19-0	215-146-2	0.005
141	邻苯二甲酸二正戊酯 Dipentyl phthalate (DPP)	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物质 Toxic for reproduction	131-18-0	205-017-9	0.003
142	壬基酚聚氧乙烯醚(支链和直链的)支链和直链的乙氧基壬基酚, 包括含有 9 个碳烷基链的所有独立的同分异构体和所有含有支链和直链的 9 个碳烷基链的 UVCB 物质 ⁽²⁾ 4-Nonylphenol, branched and linear, ethoxylated ⁽²⁾	参考 Refer to EPA 3550C:2007, GC-MS	等效关注 Equivalent concern	—	—	0.01
143	全氟辛酸铵 Ammonium pentadecafluorooctanoate (APFO)	参考 Refer to EPA 3550C:2007, LC-MS/MS	生殖系统毒性物质;持久性,生物累积性和毒性物质 Toxic for reproduction, PBT	3825-26-1	223-320-4	0.005
144	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	参考 Refer to EPA 3550C:2007, LC-MS/MS	生殖系统毒性物质;持久性,生物累积性和毒性物质 Toxic for reproduction, PBT	335-67-1	206-397-9	0.005
145*	硫化镉 ⁽¹⁾ Cadmium sulphide ⁽¹⁾	参考 Refer to EPA3052:1996, ICP-OES	致癌性物质;等效关注 Carcinogen, Equivalent concern	1306-23-6	215-147-8	0.005

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146	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)	内部方法 Pony-In-house method, HPLC	致癌性物质 Carcinogen	1937-37-7	217-710-3	0.01
147	邻苯二甲酸二己酯 Dihexyl phthalate	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物质 Toxic for reproduction	84-75-3	201-559-5	0.003
148	2-巯基咪唑啉; 2-咪唑啉硫酮; 亚乙基硫脲 Imidazolidine-2-thione; (2-imidazoline-2-thiol)	内部方法 Pony-In-house method,GC-MS	生殖系统毒性物质 Toxic for reproduction	96-45-7	202-506-9	0.01
149	磷酸三(二甲苯)酯 Trixylyl phosphate	参考 Refer to EPA 8270E:2018, GC-MS	生殖系统毒性物质 Toxic for reproduction	25155-23-1	246-677-8	0.05
150	刚果红 (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)	内部方法 Pony-In-house method, HPLC	致癌性物质 Carcinogen	573-58-0	209-358-4	0.01
151*	醋酸铅 (II) ⁽¹⁾ Lead di(acetate) ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	生殖系统毒性物质 Toxic for reproduction	301-04-2	206-104-4	0.01
152	邻苯二甲酸二己酯 (支链和直链) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物质 Toxic for reproduction	68515-50-4	271-093-5	0.003
153*	过硼酸钠,过硼酸钠盐 ⁽¹⁾ Sodium perborate;perboric acid, sodium salt ⁽¹⁾	参考 Refer to EPA3052:1996, ICP-OES	生殖系统毒性物质 Toxic for reproduction	—	239-172-9 234-390-0	0.01
154*	过硼酸钠 ⁽¹⁾ Sodium peroxometaborate ⁽¹⁾	参考 Refer to EPA3052:1996, ICP-OES	生殖系统毒性物质 Toxic for reproduction	7632-04-4	231-556-4	0.01
155*	氯化镉 ⁽¹⁾ Cadmium chloride ⁽¹⁾	参考 Refer to EPA3052:1996, ICP-OES	致癌性物质; 至突变物质; 生殖系统毒性物质; 等效关注 CMR, Equivalent concern	10108-64-2	233-296-7	0.01
156	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)	参考 Refer to EPA 3540C:1996, GC-MS	持久性, 生物累积性和毒性物质; 高持久性和高度生物累积性物质 PBT, vPvB	3846-71-7	223-346-6	0.01

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参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
157	2-(2H-苯并三氮唑-2-基)-4,6-二叔戊基苯酚 (UV-328) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	参考 Refer to EPA 3540C:1996, GC-MS	持久性, 生物累积性和毒性物质; 高持久性和高度生物累积性物质 PBT, vPvB	25973-55-1	247-384-8	0.01
158*	二正辛基-双(巯乙酸 2-乙基己酯)锡 (DOTE) (2) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (2)	参考 Refer to EPA 3052:1996, ICP-OES	生殖系统毒性物质 Toxic for reproduction	15571-58-1	239-622-4	0.05
159*	二正辛基-双(巯乙酸 2-乙基己酯) (DOTE) 和三(2-乙基己基巯基乙酸酯) 辛锡 (MOTE) 反应物 (2)(3) 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-s-tannatetradecanoate (reaction mass of DOTE and MOTe) (2)(3)	参考 Refer to EPA 3052:1996, ICP-OES	生殖系统毒性物质 Toxic for reproduction	—	—	0.05
160*	氟化镉 ⁽¹⁾ Cadmium fluoride ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	致癌物质; 致畸性物质; 生殖系统毒性物质; 等效关注 Carcinogen, Mutagen, Toxic for reproduction, Equivalent concern	7790-79-6	232-222-0	0.01
161*	硫酸镉 ⁽¹⁾ Cadmium sulphate ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	致癌物质; 致畸性物质; 生殖系统毒性物质; 等效关注 Carcinogen, Mutagen, Toxic for reproduction, Equivalent concern	10124-36-4 31119-53-6	233-331-6	0.01

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162	1,2-邻苯二甲酸二(C6-C10) 烷基酯; 1,2-邻苯二甲酸(癸基, 己基, 辛基) 酯 的复合物, 且邻苯二甲酸二己酯含量 ≥0.3% ⁽²⁾ 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with≥0.3% of dihexyl phthalate (EC No. 201-559-5) ⁽²⁾	参考 Refer to EPA 8061A:1996, GC-MS	生殖系统毒性物质 Toxic for reproduction	68515-51-5 68648-93-1	271-094-0 272-013-1	0.01
163	5-仲丁基-2-(2,4-二甲基环丁-3-烯-1-基)-5-甲基-1,3-二恶烷[1]和 5-仲丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] (卡拉花醛同分异构体) ⁽²⁾ 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] ⁽²⁾	参考 Refer to EPA 8270E:2018, GC-MS	高持久性和高度生物累积性物质 vPvB	—	—	0.01
164	1,3-丙烷磺内酯 1,3-propanesultone	内部方法 Pony-In-house method, GC-MS	致癌性物质 Carcinogen	1120-71-4	214-317-9	0.01
165	2-(2'-羟基-3',5'-二叔丁基苯基)-5-氯代苯并三唑 (UV327) 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	参考 Refer to EPA 3540C:1996, GC-MS	高持久性、生物累积性物质 vPvB	3864-99-1	223-383-8	0.01
166	2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑 (UV350) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol(UV-350)	参考 Refer to EPA 3540C:1996, GC-MS	高持久性、生物累积性物质 vPvB	36437-37-3	253-037-1	0.01
167	硝基苯 Nitrobenzene	参考 Refer to EPA 8270E:2018, GC-MS	致生殖毒性物质 Toxic for reproduction	98-95-3	202-716-0	0.01

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参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
168	全氟壬酸及其钠盐和铵盐 ⁽²⁾ Perfluorononan-1-oic-acid and its sodium and ammonium salts ⁽²⁾	参考 Refer to EPA 3550C:2007, LC-MS/MS	致生殖毒性物质; 持久性、生物累积性、毒性物质 Toxic for reproduction; PBT	375-95-1 21049-39-8 4149-60-4	206-801-3	0.005
169	苯并(a)芘 Benzo[def]chrysene (Benzo[a]pyrene)	参考 Refer to EPA 3540C:1996, GC-MS	致癌性、致突变性、致生殖毒性、持久性、生物累积性和毒性 Carcinogenic, Mutagenic, Toxic for reproduction, PBT, vPvB	50-32-8	200-028-5	0.050
170	4-庚基苯酚, 支链和直链 ⁽³⁾ 4-Heptylphenol, branched and linear ⁽³⁾	内部方法, HPLC Pony-In-house method, HPLC	等效关注 Equivalent concern	1987-50-4 直链	217-862-0 直链	0.004
171	全氟癸酸, 全氟癸酸钠和全氟癸铵 ⁽³⁾ Nonadecafluorodecanoic acid and its sodium and ammonium salts ⁽³⁾	内部方法, LC-MS/MS Pony-In-house method, LC-MS/MS	致生殖系统毒性物质; 持久性、生物累积性和毒性物质 Toxic for reproduction, vPvB	335-76-2 3830-45-3 3108-42-7	206-400-3 — 221-470-5	0.005
172	对叔戊基苯酚 p-(1,1-dimethylpropyl)phenol	内部方法, HPLC Pony-In-house method, HPLC	等效关注 Equivalent concern	80-46-6	201-280-9	0.004
173	4,4'-异亚丙基双(双酚 A) 4,4'-isopropylidenediphenol (bisphenol A; BPA)	内部方法, HPLC Pony-In-house method, HPLC	生殖系统毒性物质、内分泌干扰性 Toxic for reproduction, endocrine disrupting properties	80-05-7	201-245-8	0.004
174	全氟己基磺酸类 Perfluorohexane-1-sulphonic acid and its salts	内部方法, UPLC-MS/MS Pony-In-house method, UPLC-MS/MS	高持久性、生物累积性物质 vPvB	355-46-4	206-587-1	0.005
175	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)	内部方法 Pony-In-house method, GC-MS	高持久性和高度生物累积性物质 vPvB	13560-89-9 135821-74-8 135821-03-3	236-948-9 — —	0.0004

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参考方法 Reference Method:

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176	苯并[a]蒽 Benz[a]anthracene	内部方法 Pony-In-house method,GC-MS	致癌性物质; 持久性, 生物积累性和毒性物质; 高持久性和高度生物积累性物质 Carcinogen, PBT, vPvB	56-55-3	200-280-6	0.05
177	蒽Chrysene			218-01-9	205-923-4	0.05
178*	硝酸镉 ⁽¹⁾ Cadmium nitrate ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	致癌 致突变 经重复接触后, 引起特定器官中毒 Carcinogenic, Mutagenic, After repeated contact, Poisoning caused a particular organ	10325-94-7	233-710-6	0.01
179*	碳酸镉 ⁽¹⁾ Cadmium carbonate ⁽¹⁾			513-78-0	208-168-9	0.01
180*	氢氧化镉 ⁽¹⁾ Cadmium hydroxide ⁽¹⁾			21041-95-2	244-168-5	0.01
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] ⁽²⁾ 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] ⁽²⁾	内部方法 Pony-In-house method, GC-MS	内分泌干扰性-环境 endocrine disrupting properties-environment	—	—	0.04
182	苯并(g,h,i)芘 Benzo[ghi]perylene	内部方法 Pony-In-house method,GC-MS	致癌性物质; 持久性, 生物积累性和毒性物质; 高持久性和高度生物积累性物质 Carcinogen, PBT, vPvB	191-24-2	205-883-8	0.050
183	十甲基环五硅氧烷(D5) Decamethylcyclopentasiloxane (D5)	内部方法 Pony-In-house method, GC-MS		541-02-6	208-764-9	0.00001
184*	氧化硼钠 ⁽¹⁾ Disodium octaborate ⁽¹⁾	参考 Refer to EPA 3052:1996, ICP-OES	生殖系统毒性物质 Toxic for reproduction	12008-41-2	234-541-0	0.01
185	十二甲基环六硅氧烷(D6) Dodecamethylcyclohexasiloxane (D6)	内部方法 Pony-In-house method, GC-MS	致癌性物质; 持久性, 生物积累性和毒性物质; 高持久性和高度生物积累性物质 Carcinogen, PBT, vPvB	540-97-6	208-762-8	0.00001

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186	乙二胺 Ethylenediamine	内部方法 Pony-In-house method, GC-MS	等效关注 Equivalent concern	107-15-3	203-468-6	0.015
187*	铅 Lead	参考 Refer to EPA 3052:1996/ EPA 6010D:2018, ICP-OES	生殖系统毒性物质 Toxic for reproduction	7439-92-1	231-100-4	0.01
188	八甲基环四硅氧烷(D4) Octamethylcyclotetrasiloxane (D4)	内部方法 Pony-In-house method, GC-MS	致癌性物质; 持久性, 生物积累性和毒性物质; 高持久性和高度生物积累性物质 Carcinogen, PBT, vPvB	556-67-2	209-136-7	0.00001
189	氢化三联苯 Terphenyl hydrogenated	内部方法 Pony-In-house method, GC-MS	高持久性、生物累积性物质 vPvB	61788-32-7	262-967-7	0.001
190	苯-1,2,4-三羧酸 1,2-酐(偏苯三酸酐) (TMA) Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	内部方法 Pony-In-house method, GC-MS	等效关注 Equivalent concern	552-30-7	209-008-0	0.01
191	邻苯二甲酸二环己酯 Dicyclohexyl phthalate(DCHP)	内部方法 Pony-In-house method, GC-MS	生殖系统毒性物质 Toxic for reproduction	84-61-7	201-545-9	0.003
192	4,4'-(1,3-二甲基丁基)二苯酚 2,2-bis(4'-hydroxyphenyl)-4-methylpentane	内部方法, Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction	6807-17-6	401-720-1	0.004
193	苯并(k)荧蒽 Benzo[k]fluoranthene	内部方法, Pony-In-house method, GC-MS	致癌性物质; 持久性, 生物积累性和毒性物质; 高持久性和高度生物积累性物质 Carcinogen, PBT, vPvB	207-08-9	205-916-6	0.05
194	荧蒽 Fluoranthene	内部方法, Pony-In-house method, GC-MS	持久生物累积毒性, 高持久性和生物累积性物质 PBT, vPvB	206-44-0	205-912-4	0.05

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参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
195	菲Phenanthrene	内部方法, Pony-In-house method, GC-MS	高持久性和生物累积性物质vPvB	85-01-8	201-581-5	0.05
196	芘Pyrene	内部方法, Pony-In-house method, GC-MS	持久生物累积毒性, 高持久性和生物累积性物质 PBT, vPvB	129-00-0	204-927-3	0.05
197	1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚-2-酮或3-亚苄基樟脑 3-benzylidene camphor	内部方法 Pony-In-house method, GC-MS	内分泌干扰 Endocrine disrupting properties	15087-24-8	239-139-9	0.0015
198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(包含其同分异构体和混合物) ⁽²⁾ 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)(HFPO-DA) ⁽²⁾	内部方法 Pony-In-house method, LC-MS/MS	等效关注 Equivalent concern	—	—	0.0050
199	2-甲氧基乙酸乙酯 2-methoxyethyl acetate	内部方法 Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction	110-49-6	203-772-9	0.00008
200	(4-壬基苯基)亚磷酸酯(≥0.1%4-壬基苯基, 直连和支链) ⁽²⁾ Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)(TNPP) ⁽²⁾	内部方法 Pony-In-house method, LC-MS/MS	内分泌干扰特性-环境 endocrine disrupting properties-environment	—	—	0.0050
201	4-叔丁基苯酚 4-tert-butylphenol	内部方法 Pony-In-house method, GC-MS	等效关注 Equivalent concern	98-54-4	202-679-0	0.012
202	2-苄基-2-二甲氨基-1-(4-吗啉苯基) 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	内部方法 Pony-In-house method, LC	生殖毒性 Toxic for reproduction	119313-12-1	404-360-3	0.00075

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203	2-甲基-1-(4-甲硫基苯)-2-吗啉基-1-丙酮 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	内部方法 Pony-In-house method, LC	生殖毒性 Toxic for reproduction	71868-10-5	400-600-6	0.00075
204	邻苯二甲酸二异己酯 Diisohexyl phthalate	内部方法 Pony-In-house method GC-MS	生殖毒性 Toxic for reproduction	71850-09-4	276-090-2	0.003
205	全氟丁烷磺酸 (PFBS) 及其盐 Perfluorobutane sulfonic acid (PFBS) and its salts	内部方法 Pony-In-house method, LC-MS/MS	等效关注 Equivalent concern	—	—	0.005
206	1-乙烯基咪唑 1-vinylimidazole	内部方法 Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction	1072-63-5	214-012-0	0.004
207	2-甲基咪唑 2-methylimidazole	内部方法 Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction	693-98-1	211-765-7	0.004
208	4-羟基苯甲酸丁酯 Butyl 4-hydroxybenzoate	内部方法 Pony-In-house method GC-MS	内分泌干扰特性- 人体健康 Endocrine disrupting properties- human health	94-26-8	202-318-7	0.003
209	二正丁基双(乙酞丙酮基)锡 Dibutylbis(pentane-2,4-dionato-O, O')tin	内部方法 Pony-In-house method GC-MS	生殖毒性 Toxic for reproduction	22673-19-4	245-152-0	0.01
210	四乙二醇二甲醚 Bis(2-(2-methoxyethoxy)ethyl) ether; (Tetraglyme)	内部方法 Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction	143-24-8	205-594-7	0.01

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211	二月桂酸二辛基锡, 锡烷, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数 ⁽¹⁾ Diocetyl tin 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 ⁽¹⁾	内部方法 Pony-In-house method, ICP-OES	生殖毒性 Toxic for reproduction	—	—	0.01
	锡烷, 二辛基-, 双(椰油酰氧基)衍生物 ⁽¹⁾ Stannane, dioctyl-, bis(coco acyloxy) derivs ⁽¹⁾ (CAS No.: 91648-39-4 EC No.: 293-901-5)					
	二月桂酸二辛基锡 ⁽¹⁾ Diocetyl tin dilaurate ⁽¹⁾ (CAS No.: 3648-18-8 EC No.: 222-883-3)					
212	1,4-二噁烷 1,4-dioxane	内部方法 Pony-In-house method, GC-MS	等效关注 Equivalent concern	123-91-1	204-661-8	0.01
213	2,2-双(溴甲基)-1,3-丙二醇 (BMP) 2,2-bis(bromomethyl) propane-1,3-diol(BMP)	内部方法 Pony-In-house method, GC-MS	致癌性物质 Carcinogen	3296-90-0	221-967-7	0.005
	三溴新戊醇/3-溴-2,2-二溴乙基丙醇(TBNPA) 2,2-dimethylpropan-1-ol, tribromoderivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)			36483-57-5/ 1522-92-5	253-057-0	0.005
	2,3-二溴丙醇(2,3-DBPA) 2,3-dibromo-1-propanol (2,3-DBPA)			96-13-9	202-480-9	0.005

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214	2-(4-叔丁基苄基)丙醛及其立体异构体 ⁽²⁾ 2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers ⁽²⁾	内部方法 Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction	—	—	0.005
215	4,4'-(1-甲基亚丙基)双酚;(双酚 B) 4,4'-(1-methylpropylidene) bisphenol (bisphenol B)	内部方法 Pony-In-house method, GC-MS	内分泌干扰 Endocrine disrupting properties	77-40-7	201-025-1	0.005
216	戊二醛 Glutaral	内部方法 Pony-In-house method, GC	呼吸敏感特性-人类健康 respiration sensitivity characteristics - human health	111-30-8	203-856-5	0.001
217	中链氯化石蜡 (MCCP) (UVCB 物质, 由≥80%的直链氯代烷烃组成, 碳链长度在 C ₁₄ 到 C ₁₇ 之间) ⁽²⁾ Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C ₁₄ to C ₁₇] ⁽²⁾	内部方法 Pony-In-house method, GC-MS	持久生物累积毒性, 高持久性和生物累积性物质 PBT, vPvB	—	—	0.01
218*	硼酸钠, 钠盐 ⁽¹⁾ Orthoboric acid, sodium salt ⁽¹⁾	内部方法 Pony-In-house method, ICP-OES	生殖毒性 Toxic for reproduction	13840-56-7	237-560-2	0.01
219	碳链(C ₁₂ 为主, 直链或支链)主要在对位的烷基酚物质及其任何单个异构体或组合 (PDDP) ⁽²⁾ Phenol, alkylation products (mainly in para position) with C ₁₂ -rich branched or linear alkyl chains from oligomerisation, covering any individual ⁽²⁾	内部方法 Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction; 内分泌干扰 Endocrine disrupting properties	—	—	0.003

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参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]双环[2.2.1]庚-2-酮, 包括任何单独的异构体和/或其组合(4-MBC) (±)-1,7,7-trimethyl-3-[(4-methylphenyl) methylene] bicyclo[2.2.1] heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	内部方法 Pony-In-house method, GC-MS	内分泌干扰特性-人类健康 Endocrine disrupting properties-human health	—	—	0.01
221	2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚)(DBMC) 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	内部方法 Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction	119-47-1	204-327-1	0.01
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 ⁽¹⁾ 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 ⁽¹⁾	内部方法 Pony-In-house method, GC-MS & ICP-OES	持久性、生物累积性及毒性 PBT	255881-94-8	401-850-9	0.05
223	乙烯基-三(2-甲氧基乙氧基)硅烷 Tris(2-methoxyethoxy)vinylsilane	内部方法 Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction	1067-53-4	213-934-0	0.01
224	N-羟甲基丙烯酰胺 N-(hydroxymethyl)acrylamide	内部方法 Pony-In-house method, HPLC	致癌性物质; 致畸形物质 Carcinogen, Mutagen	924-42-5	213-103-2	0.005
225	1,2-二(2,4,6-三溴苯氧基)乙烷 1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	参考 Refer to EPA 3550C:2007, GC-MS	高持久性和生物累积性物质 vPvB	37853-59-1	253-692-3	0.005
226	四溴双酚 A 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	参考 Refer to EPA 3550C:2007, GC-MS	致癌性 Carcinogenic	79-94-7	201-236-9	0.005

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参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
227	双酚 S 4,4'-sulphonyldiphenol	参考 Refer to EPA 3550C:2007, GC-MS	生殖毒性,内分泌干扰特性-环境, 内分泌干扰特性-人体健康 Toxic for Reproduction, endocrine disrupting properties-environment; Endocrine disrupting properties-human health	80-09-1	201-250-5	0.005
228*	偏硼酸钡 ⁽³⁾ Barium diboron tetraoxide ⁽³⁾	参考 Refer to EPA 3052:1996/ EPA 6010D:2018, ICP-OES	生殖毒性 Toxic for reproduction	13701-59-2	237-222-4	0.01
229	3,4,5,6-四溴-1,2-苯二羧酸双(2-乙基己基)酯, 包括包括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	参考 Refer to EPA 3550C:2007, GC-MS	高持久性和生物累积性物质 vPvB	—	—	0.005
230	4-羟基苯甲酸 2-甲基丙酯 Isobutyl 4-hydroxybenzoate	参考 Refer to EPA 8061A:1996, GC-MS	内分泌干扰特性-人体健康 Endocrine disrupting properties-human health	4247-02-3	224-208-8	0.005
231	三聚氰胺 Melamine	内部方法 Pony-In-house method, LC	会对人类或环境引起严重影响 的物质 Equivalent level of concern having probable serious effects to human health or the environment	108-78-1	203-615-4	0.005
232	全氟庚酸及其盐 Perfluoroheptanoic acid and its salts	参考 Refer to EPA 3550C:2007& EPA 8321B:2007, LC-MS	生殖毒性; 持久生物累积毒性, 高持久性和生物累积性物质; 会对人类或环境引起严重影响的物质 Toxic for reproduction; PBT,vPvB; Equivalent level of concern having probable serious effects to human health or the environment	—	—	0.01

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参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
233	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)吗啉 2,2,3,3,5,5,6,6-八氟烷-4-(七氟丙基)吗啉的反应物料 ⁽¹⁾ 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 ⁽¹⁾	参考 Refer to EN14582:2016, IC	高持久性和生物累积性物质 vPvB	—	473-390-7	0.01
234	4,4'-二氨基二苯砜 bis(4-chlorophenyl) sulphone	内部方法 Pony-In-house method, GC-MS	强持久性强生物累积性 vPvB	80-07-9	201-247-9	0.0005
235	二苯基(2,4,6-三甲基苯甲酰基)氧化膦 Diphenyl(2,4,6-trimethylbenzoyl)phosphineoxide	内部方法 Pony-In-house method, GC-MS	生殖毒性 Toxic for reproduction	75980-60-8	278-355-8	0.0025

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(2) 7 种提议中的高关注物质 (SVHC) 7 Substance to propose as Substances of Very High Concern(SVHC)

参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
1	间苯二酚 Resorcinol	内部方法 Pony-In-house method, GC-MS	内分泌干扰特性-人类健康 Endocrine disrupting properties-human health	108-46-3	203-585-2	0.001
2	苯并三唑 (UV326) Bumetrizole	内部方法 Pony-In-house method, GC-MS	高持久性和高度生物积累性物质 vPvB	3896-11-5	223-445-4	0.0025
3	2-(4-甲基苄基)-2-(二甲基氨基)-1-(4-吗啉苯基)-1-丁酮 2-(dimethylamino)-2-[(4-methylphenyl) methyl]-1-[4-(morpholin-4-yl) phenyl] butan-1-one	内部方法 Pony-In-house method, LC-MS/MS	生殖毒性 Toxic for reproduction	119344-86-4	438-340-0	0.00075
4	2-(2H-苯并三唑-2-基)-4-(1,1,3,3-四甲基丁基)苯酚(UV329) 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	内部方法 Pony-In-house method, GC-MS	高持久性和高度生物积累性物质 vPvB	3147-75-9	221-573-5	0.0025
5	2,4,6-三叔丁基苯酚 2,4,6-tri-tert-butylphenol	内部方法 Pony-In-house method, GC-MS	生殖毒性,持久性,生物积累性和毒性物质,高持久性和高度生物积累性物质 Toxic for reproduction, PBT,vPvB	732-26-3	211-989-5	0.0025
6	2-苯丙烯和苯酚的寡聚和烷基化反应产物(OAPP)	内部方法 Pony-In-house method, GC-MS	高持久性和高度生物积累性物质 vPvB	—	700-960-7	0.0025
7	邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	参考 Refer to EPA 8061A:1996, GC-MS	内分泌干扰特性-环境 endocrine disrupting properties-environment	84-74-2	201-557-4	0.003

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(3) 7 种预征选高关注物质 (SVHC) 7 Pre-selected substance of Very High Concern (SVHC)

参考方法 Reference Method:

序号 No.	物质名称 Substance Name(s)	参考方法及仪器 Reference Methods and Equipments	物质分类 Substance Classification	CAS 号 CAS No.	EC 号 EC No.	检出限% DL%
1	六甲基二硅氧烷 Hexamethyldisiloxane	内部方法 Pony-In-house method, GC-MS	持久性,生物累积性和毒性物质 PBT	107-46-0	203-492-7	0.0025
2	十二甲基五硅氧烷 Dodecamethylpentasiloxane	内部方法 Pony-In-house method, GC-MS	高持久性和高度生物累积性物质 vPvB	141-63-9	205-492-2	0.0025
3	十甲基四硅氧烷 Decamethyltetrasiloxane	内部方法 Pony-In-house method, GC-MS	高持久性和高度生物累积性物质 vPvB	141-62-8	205-491-7	0.0025
4	1,1,1,3,5,5,5-七甲基三硅氧烷 1,1,1,3,5,5,5-heptamethyltrisiloxane	内部方法 Pony-In-house method, GC-MS	高持久性和高度生物累积性物质 vPvB	1873-88-7	217-496-1	0.0025
5	1,1,1,3,5,5,5-七甲基-3-(三甲基硅基)氧基]三硅氧烷 1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	内部方法 Pony-In-house method, GC-MS	高持久性和高度生物累积性物质 vPvB	17928-28-8	241-867-7	0.0025
6	八甲基三硅氧烷 Octamethyltrisiloxane	内部方法 Pony-In-house method, GC-MS	高持久性和高度生物累积性物质 vPvB	107-51-7	203-497-4	0.0025
7	磷酸三苯酯 Triphenyl phosphate	内部方法 Pony-In-house method, GC-MS	内分泌干扰特性-环境 endocrine disrupting properties-environment	115-86-6	204-112-2	0.0025

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(1) 235 种高关注物质 (SVHC) 235 Substances of Very High Concern(SVHC)

测试结果 Test result (单位 Unit: %):

样品编号 Sample No.	序号 No.	测试项目 Substance Name(s)	测试结果 Test Result
G4441877D3-1 非金属混测 Non metal mixed	1-235	所有测试的候选清单中的 SVHC All tested SVHC in candidate list	未检出 N.D.
G4441877D3-2 金属混测 Metal mixed	1-235	所有测试的候选清单中的 SVHC* All tested SVHC in candidate list*	未检出 N.D.

(2) 7 种提议中的高关注物质 (SVHC) 7 Substance to propose as Substances of Very High Concern(SVHC)

测试结果 Test result (单位 Unit: %):

样品编号 Sample No.	序号 No.	测试项目 Substance Name(s)	测试结果 Test Result
G4441877D3-1 非金属混测 Non metal mixed	1-7	所有提议中的 SVHC All substance to propose as Substances of Very High Concern	未检出 N.D.

(3) 7 种预征选高关注物质 (SVHC) 7 Pre-selected substance of Very High Concern (SVHC)

测试结果 Test result (单位 Unit: %):

样品编号 Sample No.	序号 No.	测试项目 Substance Name(s)	测试结果 Test Result
G4441877D3-1 非金属混测 Non metal mixed	1-7	所有预征选中的 SVHC All pre-selected SVHC	未检出 N.D.

注释 Note: DL = 检出限 Detection Limit

N.D.=未检出(小于检出限) N.D. = Not Detected (<DL)

0.1% = 1000 mg/kg = 1000 ppm mg/kg = ppm

- (1) 二氯化钴浓度值是由钴(Co)和氯(Cl)测试结果换算而来。硫酸钴、硝酸钴、碳酸钴、醋酸钴浓度值是由钴(Co)和酸测试结果换算而来。三乙基砷酸酯、五氧化二砷、三氧化二砷、重铬酸钠、砷酸氢铅、三氧化铬、三氧化二铬及其低聚物产生的酸(铬酸、二铬酸、铬酸及二铬酸的低聚物)、铬酸锶、硼酸、无水四硼酸钠、水合四硼酸钠、铬酸钠、铬酸钾、重铬酸钾、重铬酸铵、铬酸铬、氢氧化铬酸锌钾、砷酸、砷酸钙、砷酸铅、叠氮化铅、2,4,6-三硝基苯二酚铅、苦味酸铅、三氧化二硼、甲基磺酸铅、碱式乙酸铅、碱式碳酸铅、碱式硫酸铅、氟硼酸铅、氨基氰铅盐、硝酸铅、氧化铅、四氧化三铅、钛酸铅、钛酸铅钙、硅酸铅、亚硫酸铅(II)、三碱式硫酸铅、磷酸氧化铅、四乙基铅、二盐基邻苯二甲酸铅、双(十八烷基)二氧代三铅、C16-18-脂肪酸铅盐、氧化镉、硫化镉、醋酸铅(II)、过硼酸钠、过硼酸钠盐、过硼酸钠、氯化镉、氟化镉、硫酸镉、硝酸镉、碳酸镉、氢氧化镉、氧化硼钠、二月桂酸二辛基锡、锡烷，二辛基-，双(椰油酰氧基)衍生物，以及任何其他锡烷，二辛基-，双(脂肪酰氧基)衍生物。其中C12为脂肪酰氧基部分的主要碳原子数/锡烷，二辛基-，双(椰油酰氧基)衍生物/二月桂酸二辛基锡、硼酸钠，钠盐、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)二硫代磷酸酯的浓度值是由物质中的无机元素测试结果换算而来。2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)吗啉和2,2,3,3,5,5,5,6,6-八氟烷-4-(七氟丙基)吗啉的反应物料的浓度值是由氟的测试结果换算而来。



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PONY-BGLS186-03C-003-2021A

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- (2) 由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。
- (3) 由于此物质含有多种物质, 测试结果是基于此物质中最具有代表性的主要组成化合物的含量, 其主要造成化合物的测试结果是基于特定的重金属元素的浓度换算而来。
- (4) 由于TGIC本身含有 β -TGIC, 依照ECHA 技术文件 β -TGIC与TGIC 约为1:10 比例, 因此 β -TGIC将以1/10 的TGIC计算浓度。
- (1): PBT=Persistent, bioaccumulative and toxic; vPvB=very Persistent very Bioaccumulative
Concentration value of Cobalt dichloride is by the conversion from the test results of Cobalt and Chlorine. Concentration value of Cobalt(II) sulphate , Cobalt(II) dinitrate, Cobalt(II) carbonate, Cobalt(II) diacetate are by the conversion from the test results of Cobalt and Acid. Concentration value of Triethyl arsenate, Diarsenic pentaoxide, Diarsenic trioxide, Sodium dichromate, Lead hydrogen arsenate, Chromium trioxide, Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers (Chromic acid/ Dichromic acid/ Oligomers of chromic acid and dichromic acid), Strontium chromate, Boric acid, Disodium Tetraborate. Anhydrous, Tetraboron disodium heptaoxide, hydrate, Sodium chromate, Potassium chromate, Potassium dichromate, Ammonium dichromate, Dichromium tris(chromate), Potassium hydroxyoctaoxidizincatedichromate, Arsenic acid, Calcium arsenate, Trilead diarsenate, Lead diazide, Lead azide, Lead styphnate, Lead dipicrate, Diboron trioxide, Lead(II) bis(methanesulfonate), Acetic acid, lead salt, basic, Trilead bis(carbonate)dihydroxide, Lead oxide sulphate, Lead bis(tetrafluoroborate), Lead cyanamidate, Lead dinitrate, Lead monoxide (lead oxide), Orange lead (lead tetroxide), Lead titanium trioxide, Lead titanium zirconium oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Sulfurous acid, lead salt , Silicic acid, lead salt, Sulfurous acid, lead salt, dibasic, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Tetraethyllead, [Phthalato(2-)]dioxotrilead, Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Cadmium oxide, Cadmium sulphide, Lead di(acetate), Sodium perborate; perboric acid, sodium salt, Sodium peroxometaborate, Cadmium chloride, Cadmium fluoride and Cadmium sulphate, Cadmium nitrate, Cadmium carbonate, Cadmium hydroxide, Disodium octaborate, 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/Stannane, dioctyl-, bis(coco acyloxy) derivs/Dioctyltin dilaurate, Orthoboric acid, sodium salt, 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 are by the conversion from the test results of corresponding Inorganic elements. 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 are by the conversion from the test results of fluorine.
- (2): 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.
- (3): when tested substances contain variable compounds, the test results are calculated based on main constituents of the representative compounds for the substances. The test results of the representative compounds are calculated based on the result of specified heavy metal elements.
- (4): TGIC is a mixture and also contains β -TGIC. According to the ECHA's technical dossier the ratio of β -TGIC to TGIC is around 1 to 10. Therefore β -TGIC is issued based on the above-mentioned ratio.

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备注 Remarks:

1. 本报告所涉及的关于特定高关注物质的化学分析是基于根据欧洲化学品管理署 (ECHA) 2023 年 6 月 14 日公告的高关注物质列入候选清单, 利用现有的分析技术所完成的。
具体参考: <http://echa.europa.eu/web/guest/candidate-list-table>
 2. 根据欧盟第 1907/2006(EC)号法规, 如果满足以下两件条件, 如果物质符合第 57 条中的标准并根据第 59 条第一款被确定, 物品的任何制造商或进口商应根据第 7 条第 4 款向欧盟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/生产商或进口商; (b) 物质在物品中的总含量以质量分数计超过 0.1% 的浓度。
 3. 欧盟第 1907/2006(EC)号法规第 33 条规定, 含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1% 的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品使用安全, 这些信息至少包括物质的名称。
 4. 样品的混合测试是基于申请人的请求, 因此报告中样品的混合测试结果不表明样品中个别单一材质的含量。
1. The chemical analysis of specific SVHC is performed by means of currently available analytical. Techniques in the list published by ECHA on 14 Jun 2023 shall refer to: <http://echa.europa.eu/web/guest/candidate-list-table>
 2. 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) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
 3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration 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.
 4. The mixing sample test was performed as client's request. Result obtained only gives informality value and does not represent individual sample material.
 5. 此报告替代编号 MRC8W2HG4441877D3 测试报告。编号 MRC8W2HG4441877D3 测试报告作废, 不具有任何法律效力, 以此报告为准。2023-10-24
The original report which report No. is MRC8W2HG4441877D3 be replaced by this report, and it will be canceled immediately and doesn't have any legal validity. Please compliance with this report. 2023-10-24

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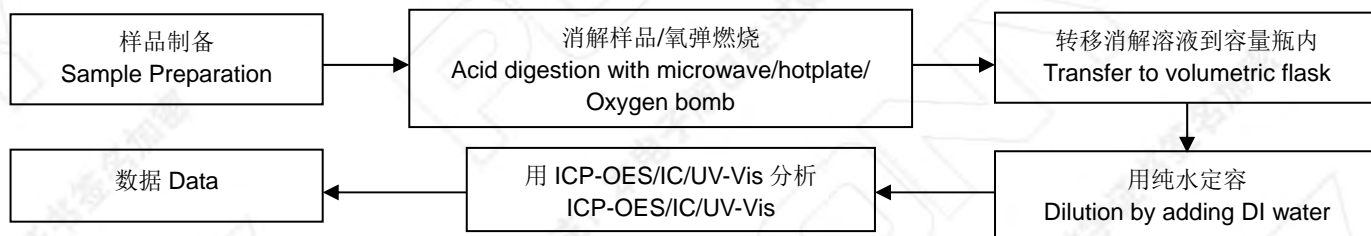
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测试报告 Test Report 报告编号 NO.: MRC8W2HG4441877D3a 签发日期(Issued Date): 2023-10-24 Page 33 of 39

测试流程图 Measurement Flow-chart

测试人员 Tested by: 熊程红
审核人 Checked by: 彭小平
实验室负责人 Person in charge of the lab: 毛祖青

1. 筛选二氯化钴 Determination of Cobalt dichloride/五氧化二砷 Diarsenic pentaoxide/三氧化二砷 Diarsenic trioxide/重铬酸钠 Sodium dichromate/砷酸氢铅 Lead hydrogen Arsenate/三乙基砷酸酯 Triethyl arsenate/铬酸铅(铬黄)Lead chromate/钼铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)/铅铬黄 (C.I.颜料黄 34) Lead sulfchromate yellow(C.I. Pigment Yellow 34) /硼酸 Boric acid/无水四硼酸钠 Disodium tetraborate, anhydrous/水合四硼酸钠 Tetraboron disodiumheptaoxide, hydrate/铬酸钠 Sodium chromate/铬酸钾 Potassium chromate/重铬酸铵 Ammonium dichromate/重铬酸钾 Potassium dichromate/硫酸钴 Cobalt(II) sulphate/硝酸钴 Cobalt(II) dinitrate/碳酸钴 Cobalt(II) carbonate/醋酸钴 Cobalt(II) diacetate/三氧化铬 Chromium trioxide/三氧化二铬及其低聚物产生的酸(铬酸, 二铬酸, 铬酸及二铬酸的低聚物) Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers (Chromic acid/ Dichromic acid/ Oligomers of chromic acid and dichromic acid)/铬酸锶 strontium chromate/联胺, 也称胼 Hydrazine /铬酸铬 Dichromium tris(chromate)/氢氧化铬酸锌钾 Potassium hydroxyoctaoxidizincatedichromate/锌黄(C.I.颜料黄 36) Pentazinc chromate octahydroxide /硅酸铝耐火陶瓷纤维 Aluminosilicate Refractory Ceramic Fibres (RCF)/氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate Refractory Ceramic Fibres(Zr-RCF)/砷酸 Arsenic acid /砷酸钙 Calcium arsenate /砷酸铅 Trilead diarsenate /叠氮化铅 Lead diazide, Lead azide /2,4,6-三硝基苯二酚铅 Lead styphnate /苦味酸铅 Lead dipicrate/三氧化二硼 Diboron trioxide/甲基磺酸铅 Lead(II) bis(methanesulfonate)/碱式乙酸铅 Acetic acid, lead salt, basic/碱式碳酸铅 Trilead bis(carbonate)dihydroxide/碱式硫酸铅 Lead oxide sulphate /氟硼酸铅 Lead bis(tetrafluoroborate)/氨基氰铅盐 Lead cyanamide/硝酸铅 Lead dinitrate/氧化铅 Lead oxide (lead monoxide)/四氧化三铅 Lead tetraoxide (orange lead)/钛酸铅 Lead titanium trioxide/钛酸铅锆 Lead Titanium Zirconium Oxide/氧化铅与硫酸铅的复合物 Pentalead tetraoxide sulphate/颜料黄 41 Pyrochlore, antimony lead yellow/铅掺杂的硅钨酸盐 Silicic acid, barium salt, lead-doped/硅酸铅 Silicic acid, lead salt/亚硫酸铅(II) Sulfurous acid, lead salt, dibasic/三碱式硫酸铅, Tetralead trioxide sulphate/磷酸氧化铅 Trilead dioxide phosphonate/二盐基邻苯二甲酸铅 [Phthalato(2-)]dioxotrilead/双(十八烷基)二氧化三铅 Dioxobis(stearato)trilead/C16-18-脂肪酸铅盐 Fatty acids, C16-18, lead salts/四乙基铅 Tetraethyllead/镉 Cadmium/氧化镉 Cadmium oxide/硫化镉 Cadmium sulphide/醋酸铅(II) Lead di(acetate) /过硼酸钠, 过硼酸钠盐 Sodium perborate; perboric acid, sodium salt /过硼酸钠 Sodium peroxometaborate/氯化镉 Cadmium chloride/氟化镉 Cadmium fluoride/硫酸镉 Cadmium sulphate/二正辛基-双(巯乙酸 2-乙基己酯)锡 (DOTE) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate(DOTE)/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 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)/硝酸镉 Cadmium nitrate/碳酸镉 Cadmium carbonate/氢氧化镉 Cadmium hydroxide/氧化硼钠 Disodium octaborate/铅 Lead/二月桂酸二辛基锡, 锡烷, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数/锡烷, 二辛基-, 双(椰油酰氧基)衍生物/二月桂酸二辛基锡 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/Stannane, dioctyl-, bis(coco acyloxy) derivs./Diocetyl tin dilaurate/硼酸钠, 钠盐 Orthoboric acid, sodium salt/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/偏硼酸钡 Barium diboron tetraoxide/2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)吗啉和 2,2,3,3,5,5,6,6-八氟烷-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



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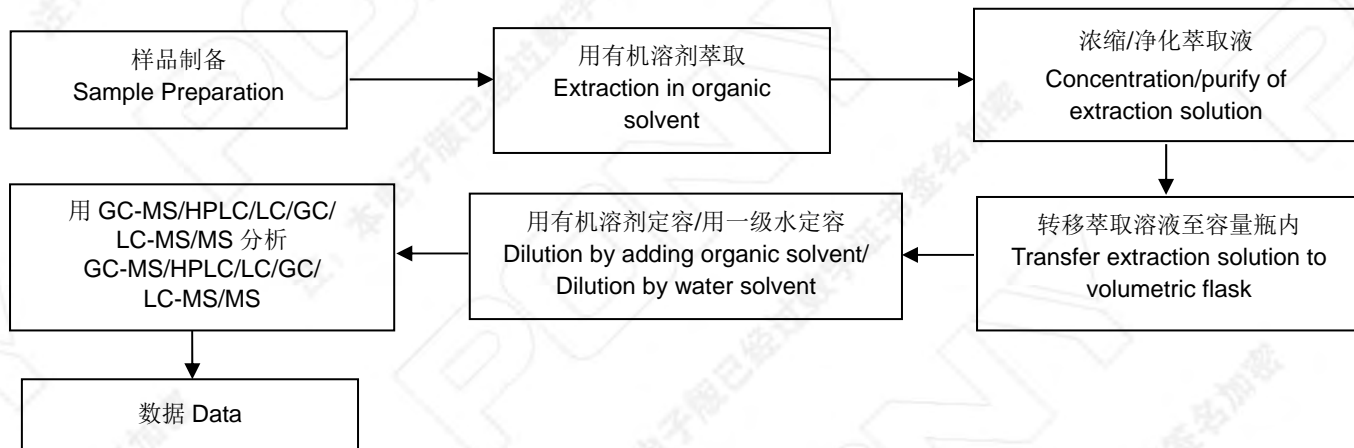
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测试报告 Test Report 报告编号 NO.: MRC8W2HG4441877D3a 签发日期(Issued Date): 2023-10-24 Page 34 of 39

测试流程图 Measurement Flow-chart

测试人员 Tested by: 江月娇
审核人 Checked by: 彭小平
实验室负责人 Person in charge of the lab: 毛祖青

2.测定蒽 Determination of Anthracene/4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane (MDA)/二甲苯麝 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) /六溴环十二烷 Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane /短链氯化石蜡 Alkanes,C10-13, chloro (Short Chain Chlorinated Paraffins)/氧化双三丁基锡 Bis(tributyltin)oxide(TBTO)/ 邻苯二甲酸丁苄酯 Benzyl butyl phthalate(BBP)/邻苯二甲酸二(2-乙基己基)酯 Bis (2-ethylhexyl)phthalate (DEHP)/邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)/2,4-二硝基甲苯 2,4-Dinitrotoluene/蒽油 Anthracene oil/蒽油,蒽湖,轻油 Anthracene oil, anthracene paste, distn. Lights/蒽油, 蒽湖,蒽馏分 Anthracene oil, anthracene paste, anthracene fraction/蒽油,含蒽量少 Anthracene oil, anthracene-low/蒽油,蒽湖 Anthracene oil, anthracene paste/邻苯二甲酸二异丁酯 Diisobutyl phthalate/丙烯酰胺 Acrylamide/三(2-氯乙基)磷酸酯 Tris(2-chloroethyl) phosphate/煤沥青, 高温 Pitch, coal tar, high temp /三氯乙烯 Trichloroethylene/2-甲氧基乙醇 2-Methoxyethanol/2-乙氧基醇 2-Ethoxyethanol/乙二醇乙醚乙酸酯 2-ethoxyethyl acetate/1,2 苯二酸-二 (C7-11 支链-直链) 烷基 (醇) 酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters /1-甲基-2-吡咯烷酮 1-methyl-2-pyrrolidone/1,2,3- 三氯丙烷 1,2,3-trichloropropane/ 邻苯二甲酸 -二 (C6-8 支链与直链) 烷基酯, 富 C7 1,2-Benzenedicarboxylicacid, di-C6-8-branched alkyl esters, C7-rich/邻苯二甲酸二甲氧乙酯 Bis(2-methoxyethyl) phthalate /邻氨基苯甲醚 2-Methoxyaniline,o-Anisidine /对特辛基苯酚 4-(1,1,3,3-tetramethylbutyl)phenol /1,2-二氯乙烷 1,2-Dichloroethane /二乙二醇二甲醚 Bis(2-methoxyethyl)ether/ N,N-二甲基乙酰胺 N,N-dimethylacetamide /酚酞 Phenolphthalein /4,4'-亚甲基双-2-氯苯胺 2,2'-dichloro-4,4'-methylenedianiline/1,2 双 (2-甲氧乙氧基) 乙烷三乙二醇二甲醚 (三甘醇二甲醚) 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)/乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)/甲酰胺 Formamide /异氰尿酸三缩水甘油酯 TGIC1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)/1,3,5- 三-[(2S 和 2R) -2, 3- 环氧丙基]-1,3,5 三嗪-2,4,6- (1H,3H,5H) 三酮 β-TGIC 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)/4'-二 (N,N-二甲氨基) 二苯甲酮 (四乙基米氏酮) 4,4'-bis(dimethylamino)benzophenone(Michler's ketone)/N,N,N'-四甲基-4,4'-二氨基二苯基甲烷 (米氏碱) 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)/结晶紫[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)/碱性蓝[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) /A,A-二[4-(二甲氨基)苯基]-4-苯基氨基-1-萘甲醇 (溶剂蓝 4) α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)/α,α-二[(二甲氨基)苯基]-4-氨基苯甲醇 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol



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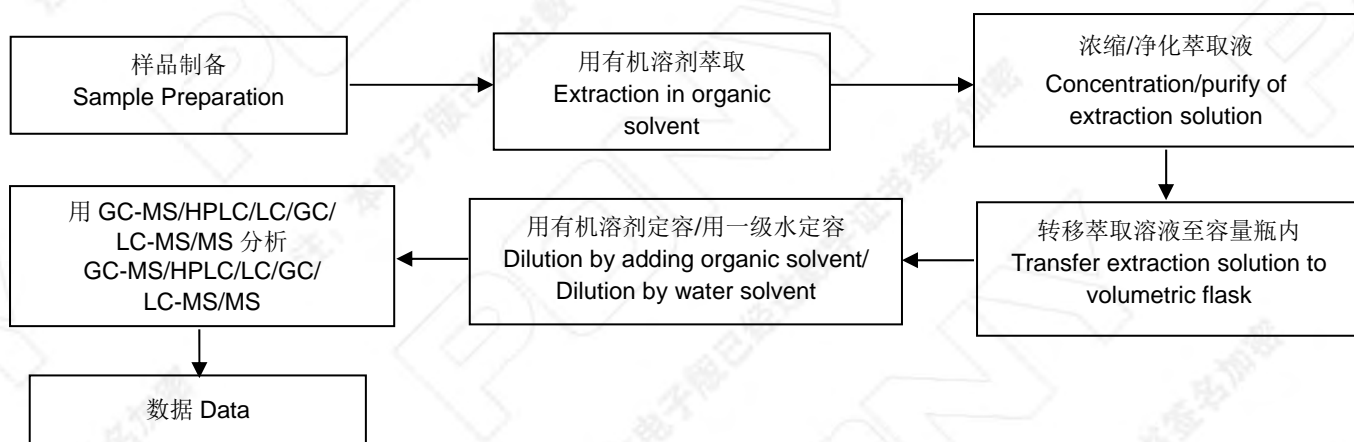
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测试流程图 Measurement Flow-chart

测试人员 Tested by: 江月娇
审核人 Checked by: 彭平平
实验室负责人 Person in charge of the lab: 毛祖青

3. 测定十溴联苯醚 Determination of Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)/全氟十三酸 Pentacosafuorotridecanoic acid/全氟十二烷酸 Tricosafuorododecanoic acid/全氟十一烷酸 Henicosafuoroundecanoic/全氟代十四酸 Heptacosafuorotetradecanoic acid/对特辛基苯酚, 乙氧基- 包括界定明确的物质以及 UVCB 物质、聚合物和同系物 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated, 分支或线性的壬基酚, 含有线性或分支、共价绑定苯酚的 9 个碳烷基链的物质, 包括 UVCB 物质以及任何含有独立或组合的界定明确的同分异构体的物质 4-Nonylphenol, branched and linear /偶氮二甲酰胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)), 六氢邻苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic 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 Hexahydromethylphthalic anhydride、Hexahydro-4-methylphthalic anhydride、Hexahydro-1-methylphthalic anhydride、Hexahydro-3-methylphthalic anhydride /甲氧基乙酸 Methoxy acetic acid/支链和直链 1, 2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear/邻苯二甲酸二异戊酯 Diisopentylphthalate/邻苯二甲酸正戊基异戊基酯 N-pentyl-isopentylphthalate/乙二醇二乙醚 1,2-Diethoxyethane/N,N-二甲基甲酰胺 N,N-dimethylformamide;dimethyl formamide/二丁基二氯化锡 Dibutyltin dichloride (DBTC)/二盐基邻苯二甲酸铅[Phthalato(2-)]dioxotrilead/双(十八烷基)二氧化三铅 Dioxobis(stearato)trilead/C16-18-脂肪酸铅盐 Fatty acids, C16-18, lead salts/四乙基铅 Tetraethyllead/呋喃 Furan/环氧丙烷 Propylene oxide; 1,2-epoxypropane; methyloxirane/硫酸二乙酯 Diethyl sulphate 硫酸二甲酯 Dimethylsulphate/地乐酚 Dinoseb/4,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine/4,4'-二氨基二苯醚 4,4'-oxydianiline and its salts/4-氨基偶氮苯 4-Aminoazobenzene; 4-Phenylazobenzene/2,4-二氨基甲苯 4-methyl-m-phenylenediamine (2,4-toluene-diamine)/2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine (p-cresidine)/4-氨基联苯 Biphenyl-4-ylamine/邻氨基偶氮甲苯 o-aminoazotoluene/邻甲基苯胺 o-Toluidine; 2-Aminotoluene/N-甲基乙酰胺 N-methylacetamide/溴代正丙烷 1-bromopropane/3-乙基-2-甲基-2-(3-甲基丁基)-1,3-噁唑啉 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine,邻苯二甲酸二正戊酯 Dipentyl phthalate (DPP), 壬基酚聚氧乙烯醚(支链和直链的)支链和直链的乙氧化壬基酚, 包括含有 9 个碳烷基链的所有独立的同分异构体和所有含有支链和直链的 9 个碳烷基链的 UVCB 物质 4-Nonylphenol, branched and linear, ethoxylated/氟辛酸铵 Ammonium pentadecafluorooctanoate (APFO),全氟辛酸 Pentadecafluorooctanoic acid (PFOA)/ 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)/邻苯二甲酸二己酯 Dihexyl phthalate/2-巯基咪唑啉; 2-咪唑啉硫酮; 亚乙基硫脲 Imidazolidine-2-thione; (2-imidazoline-2-thiol)/磷酸三(二甲苯)酯 Trixylyl phosphate/刚果红 (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)/邻苯二甲酸二己酯(支链和直链)1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear/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)



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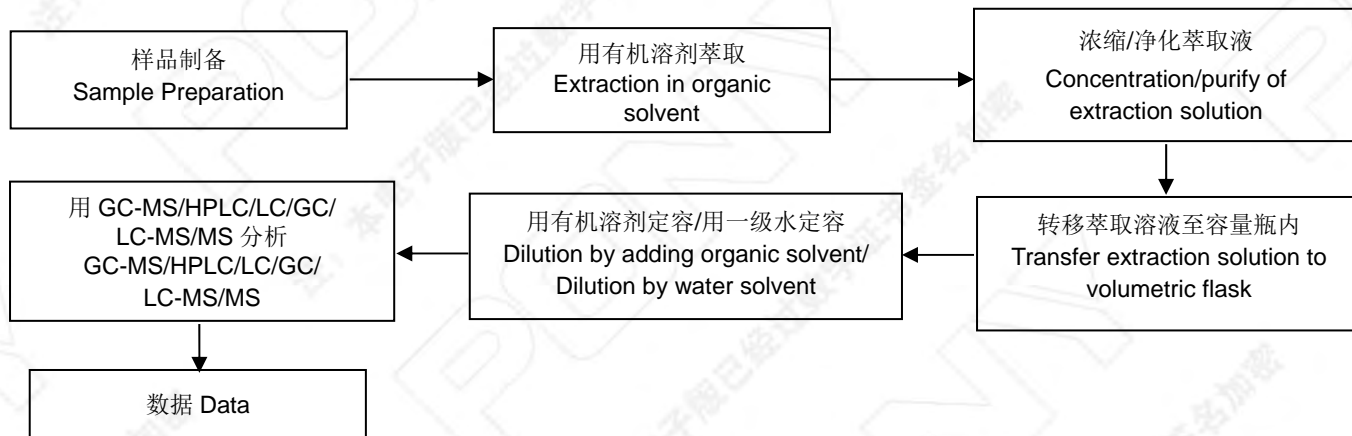
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测试流程图 Measurement Flow-chart

测试人员 Tested by: 江月娇
审核人 Checked by: 彭平平
实验室负责人 Person in charge of the lab: 毛祖青

4.测定 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV-328) Determination of 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328),1,2-邻苯二甲酸二(C6-C10) 烷基酯; 1,2-邻苯二甲酸(癸基, 己基, 辛基) 酯的复合物, 且邻苯二甲酸二己酯含量 $\geq 0.3\%$ (2) 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), 5-仲丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1]和 5-仲丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] (卡拉花醛同分异构体) 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]/1,3-丙烷磺内酯 1,3-propanesultone /2-(2'-羟基-3',5'-二叔丁基苯基)-5-氯代苯并三唑 (UV327) 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol(UV-327)/2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑 (UV350) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(secbutyl)phenol(UV-350)/硝基苯 Nitrobenzene/全氟壬酸及其钠盐和氨盐 Perfluoronon-1-oic-acid and its sodium and ammonium salts/苯并(a)芘 Benzo[def]chrysene (Benzo[a]pyrene) /4-庚基苯酚, 支链和直链 4-Heptylphenol, branched and linear/全氟癸酸, 全氟癸酸钠和全氟癸酸铵 Nonadecafluorodecanoic acid and its sodium and ammonium salts/对叔戊基苯酚 p-(1,1-dimethylpropyl)phenol/4,4'-异亚丙基双(双酚 A) 4,4'-isopropylidenediphenol(bisphenol A; BPA)/全氟己基磺酸类 Perfluorohexane-1-sulphonic acid and its salts/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)/苯并[a]蒽 Benz[a]anthracene/屈 chrysene/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 $\geq 0.1\%$ w / w] Reaction products of 1,3,4- thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]/ 1,12-苯并茈 Benzo[ghi]perylene / 十甲基环五硅氧烷 (D5) Decamethylcyclopentasiloxane(D5)/ 十二甲基环六硅氧烷 (D6) Dodecamethylcyclohexasiloxane(D6) /乙二胺 Ethylenediamine /八甲基环四硅氧烷(D4) Octamethylcyclotetrasiloxane(D4)/氢化三联苯 Terphenyl hydrogenated/苯-1,2,4-三羧酸 1,2-酐(偏苯三酸酐) (TMA) Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)/邻苯二甲酸二环己酯 Dicyclohexyl phthalate (DCHP)/4,4'-(1,3-二甲基丁基)二苯酚 2,2-bis(4'-hydroxyphenyl)-4-methylpentane /苯并(k)荧蒽 Benzo[k]fluoranthene /荧蒽 Fluoranthene /菲 Phenanthrene /芘 Pyrene /1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚-2-酮或 3-亚苄基樟脑 3-benzylidene camphor/HFPO-DA 2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(包含其同分异构体和混合物) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)(HFPO-DA) /2-甲氧基乙酸乙酯 2-methoxyethyl acetate /(4-壬基苯基)亚磷酸酯 ($\geq 0.1\%$ 4-壬基苯基, 直连和支链) Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)(TNPP)/4-叔丁基苯酚 4-tert-butylphenol



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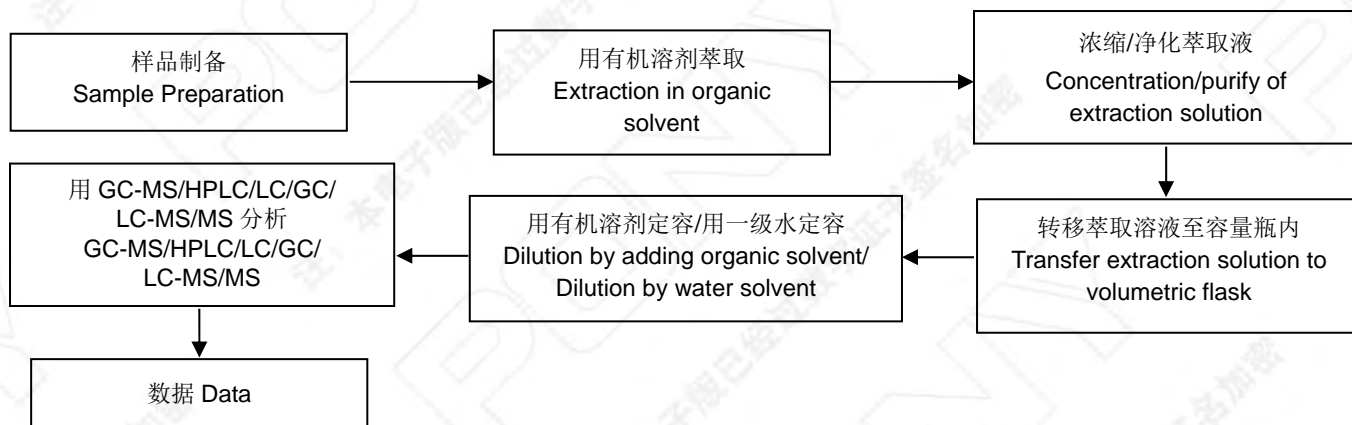
测试流程图 Measurement Flow-chart

测试人员 Tested by: 江月娇

审核人 Checked by: 彭平平

实验室负责人 Person in charge of the lab: 毛祖青

5.测定 Determination of 2-苄基-2-二甲氨基-1-(4-吗啉苯基) 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone/
2-甲基-1-(4-甲硫基苯)-2-吗啉基-1-丙酮 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one/邻苯二甲酸二异己酯
Diisohexyl phthalate/全氟丁烷磺酸 (PFBS) 及其盐 Perfluorobutane sulfonic acid (PFBS) and its salts/1-乙烯基咪唑
1-vinylimidazole/2-甲基咪唑 2-methylimidazole/4-羟基苯甲酸丁酯 Butyl 4-hydroxybenzoate/二正丁基双(乙酰丙酮基)锡
Dibutylbis(pentane-2,4-dionato-O,O')tin/四乙二醇二甲醚 Determination of Bis(2-(2-methoxyethoxy)ethyl)ether; (Tetraglyme) /
1,4-二噁烷 1,4-dioxane/2,2-双(溴甲基)-1,3-丙二醇 (BMP) 2,2-bis(bromomethyl) propane-1,3-diol(BMP); 三溴新戊醇/3-溴-2,2-
二溴乙基丙醇(TBNA)2,2-dimethylpropan-1-ol, tribromoderivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNA); 2,3-
二溴丙醇(2,3-DBPA) 2,3-dibromo-1-propanol (2,3-DBPA)/ 2-(4-叔丁基苯基)丙醛及其立体异构体 2-(4-tert-butylbenzyl)
propionaldehyde and its individual stereoisomers/4,4'-(1-甲基亚丙基)双酚;(双酚 B)4,4'-(1-methylpropylidene)
bisphenol(bisphenol B)/戊二醛 Glutaral/中链氯化石蜡 (MCCP) (UVCB 物质, 由≥80%的直链氯代烷烃组成, 碳链长度在 C₁₄ 到
C₁₇ 之间)Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear
chloroalkanes with carbon chain lengths within the range from C₁₄ to C₁₇] 碳链(C₁₂ 为主, 直链或支链)主要在对位的烷基酚物
质及其任何单个异构体或组合 (PDDP)Phenol, alkylation products (mainly in para position) with C₁₂-rich branched or linear alkyl
chains from oligomerisation, covering any individual/(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]双环[2.2.1]庚-2-酮, 包括任何单独
的异构体和/或其组合(4-MBC)(±)-1,7,7-trimethyl-3-[(4-methylphenyl) methylene] bicyclo[2.2.1] heptan-2-one covering any of
the individual isomers and/or combinations thereof (4-MBC)/2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚)(DBMC) 6,6'-di-tert-butyl-
2,2'-methylenedi-p-cresol/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/乙烯基-三(2-甲氧基乙氧基)硅烷 Tris(2-methoxyethoxy)vinylsilane/N-羟甲基丙烯酰胺
N-(hydroxymethyl)acrylamide/1,2-二(2,4,6-三溴苯氧基)乙烷 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]/四溴双酚 A
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol/双酚 S 4,4'-sulphonyldiphenol/3,4,5,6-四溴-1,2-苯二羧酸双(2-乙基己基)酯, 包
括包括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/4-羟基苯甲酸 2-甲基丙酯 Isobutyl 4-hydroxybenzoate/三聚氰胺 Melamine/全氟庚酸及其盐
Perfluoroheptanoic acid and its salts/4,4'-二氨基二苯砜 bis(4-chlorophenyl) sulphone/二苯基(2,4,6-三甲基苯甲酰基)氧化膦
Diphenyl(2,4,6-trimethylbenzoyl)phosphineoxide/间苯二酚 Resorcinol





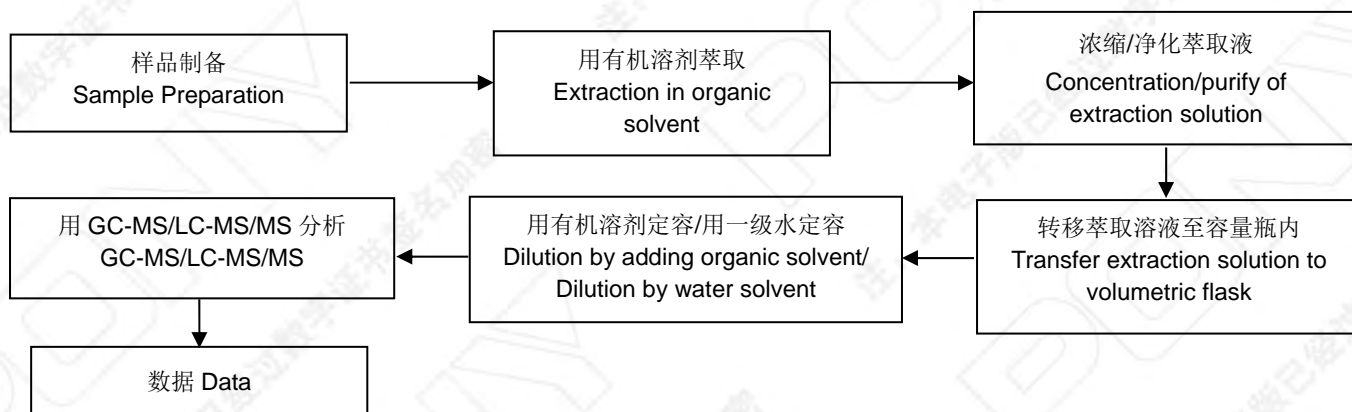
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测试流程图 Measurement Flow-chart

测试人员 Tested by: 江月娇
审核人 Checked by: 彭平平
实验室负责人 Person in charge of the lab: 毛祖青

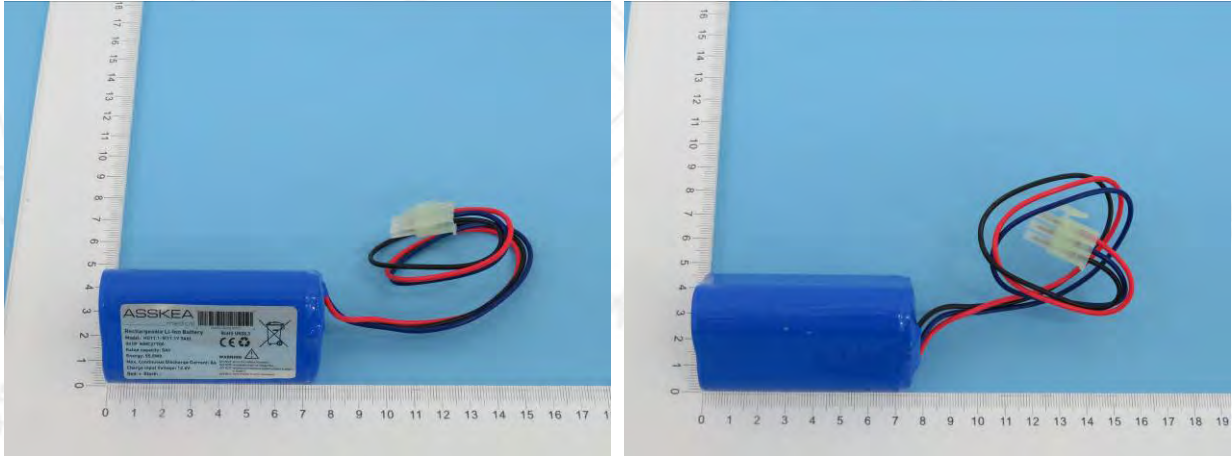
6.测定 Determination of 六甲基二硅氧烷 Hexamethyldisiloxane/十二甲基五硅氧烷 Dodecamethylpentasiloxane/十甲基四硅氧烷 Decamethyltetrasiloxane/1,1,1,3,5,5,5-七甲基三硅氧烷 1,1,1,3,5,5,5-heptamethyltrisiloxane/1,1,1,3,5,5,5-七甲基-3[(三甲基硅基)氧基]三硅氧烷 1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane/八甲基三硅氧烷 Octamethyltrisiloxane/磷酸三苯酯 Triphenyl phosphate/苯并三唑 (UV326) Bumetrizole/2-(4-甲基苄基)-2-(二甲基氨基)-1-(4-吗啉苄基)-1-丁酮 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one/2-(2H-苯并三唑-2-基)-4-(1,1,3,3-四甲基丁基)苯酚 (UV329)2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol/2,4,6-三叔丁基苯酚 2,4,6-tri-tert-butylphenol/2-苯丙烯和苯酚的寡聚和烷基化反应产物(OAPP)





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