



检测报告

Test Report

报告编号: SLT211203004-3
 NO.:
 委托方名称: 深圳光华伟业股份有限公司
 Client: Shenzhen Esun Industrial Co., Ltd.
 委托方地址: 深圳市南山区粤兴二道 6 号武汉大学深圳产学研大楼 A403-I 及 A901
 Client's Address: Wuhan University Building A403-I and A901, No. 6 Yuexing 2 Road, Nanshan District, Shenzhen, China

以下检测之样品及样品信息由申请者提供并确认
 Samples information of the following tests are provided and confirmed by the applicant

样品名称: eSpool
 Sample Name:
 样品型号: /
 Mode/Type:
 样品接收日期: Dec 03, 2021
 Sample Receiving Date:
 样品检测日期: Dec 04, 2021~Dec 14, 2021
 Test Date:
 检测地点: 化学分析实验室
 Test Site: Chemical analysis laboratory
 检测依据及结果: 请参见下页
 Test Method&Result: See the next page

检测要求: 依客户要求, 参照法规 (EC) No 1907/2006 (REACH), 对所提交样品中的 219 种高关注物质 (SVHC) 进行筛选测试。
 Test Requested: According to customer requirements, with reference to Regulation (EC) No 1907/2006 (REACH), 219 substances of very high concern (SVHC) in the submitted samples were screened and tested.



企业公众号

Corporate public number



报告防伪查询

Report anti-counterfeiting query

报告制作: *Jia Xu*
 Reported by:

报告批准: *Yanhai Lee*
 Approved by:

报告审核: *Xiaoyun Wang*
 Inspected by:

报告日期: Dec 14, 2021
 Date of issue:



公司名称: 山东莱恩检测技术服务有限公司
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样品信息及检测结果概述 (Overview of sample information and test results) :

样品名称 Sample Name		物质名称 Substance Names	检测结果 Test Results	摘要 Summary	结论 Conclusion
eSpool	混测 Mixed Test	219 种高关注物质 219 SVHC substance	ND	根据分析结果, 所提交样品中 219 种 SVHC 浓度均小于 0.1%(w/w)。 According to the analysis results, the concentrations of 219 SVHCs in the submitted samples were less than 0.1% (w/w).	符合 Pass

备注 (Remark) :

换算出物质浓度等于或大于报告检出限, 对于该物质是否存在于样品中需核查相应物料的 MSDS 或向供应商进行确认。

The converted substance concentration is equal to or greater than the detection limit of the report. For whether the substance is present in the sample, check the MSDS of the corresponding material or confirm with the supplier.

检测方法 (Test Methods) :

参考 US EPA 3052:1996,US EPA 6010D:2018,US EPA 3050B:1996,US EPA 3060A:1996,US EPA 3550C:2007,US EPA 3540C:1996,US EPA 8270E:2018,ISO 17353:2004(E),EN 14582:2016,IEC 62321-5:2013,IEC 62321-7-1:2015,IEC 62321-7-2:2017,IEC 62321-6:2015,IEC 62321-8:2017 进行样品预处理。采用 ICP-OES,UV-Vis,IC,GC-MS,HP-LC 等仪器分析。

Refer to US EPA 3052:1996,US EPA 6010D:2018,US EPA 3050B:1996,US EPA 3060A:1996,US EPA 3550C:2007,US EPA 3540C:1996,US EPA 8270E:2018,ISO 17353:2004(E),EN 14582:2016,IEC 62321-5:2013,IEC 62321-7-1:2015,IEC 62321-7-2:2017,IEC 62321-6:2015,IEC 62321-8:2017 for sample pretreatment.analyzed by ICP-OES,UV-Vis,IC,GC-MS,HP-LC and so on.

高关注物质清单 (SVHC list) :

单位(Unit):%(w/w)

序号 No.	测试项目 Test Items	CAS No.	EC No.	报告限值 Report Limit
1	蒽 (ANT) Anthracene (ANT)	121-12-7	204-371-1	0.005
2	4,4'-二氨基二苯基甲烷(MDA) 4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	0.005
3	邻苯二甲酸二丁酯 (DBP) Dibutyl Phthalate (DBP)	84-74-2	201-557-4	0.005
4	二氯化钴(CoCl ₂)* Cobalt Dichloride (CoCl ₂)*	7646-79-9	231-589-4	0.01
5	五氧化二砷(As ₂ O ₅)* Diarsenic Pentaoxide(As ₂ O ₅)*	1303-28-2	215-116-9	0.01
6	三氧化二砷 (As ₂ O ₃)* Diarsenic Trioxide(As ₂ O ₃)*	1327-53-3	215-481-4	0.01
7	重铬酸钠及二水化合物* Sodium Dichromate, Dihydrate*	7789-12-0, 10588-01-9	234-190-3	0.01
8	2,4,6-三硝基-3,3-二甲基-5-叔丁基苯(二甲苯麝香) 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	81-15-2	201-329-4	0.005
9	邻苯二甲酸二(2-乙基己基)酯(DEHP) Bis-(2-ethyl(hexyl) Phthalate (DEHP)	117-81-7	204-211-0	0.005
10	六溴环十二烷 (HBCDD) Hexabromocyclododecane(HBCDD)	25637-99-4 & 3194-55-6	247-148-4 221-695-9	0.005
11	短链型 C10-13 氯化石蜡(SCCP) Alkanes, C10-13,chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	0.01
12	氧化三丁锡 (TBTO)* Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	0.005
13	砷酸氢铅* Lead Hydrogen Arsenate*	7784-40-9	232-064-2	0.01
14	邻苯二甲酸丁酯苯酯 (BBP) Benzyl Butyl Phthalate (BBP)	85-68-7	201-622-7	0.05
15	三乙砷酸酯* Triethyl Arsenate*	15606-95-8	427-700-2	0.01

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16	①蒽油*** ①Anthracene oil***	90640-80-5	292-602-7	0.05
17	①蒽油, 蒽湖, 轻油**** ① Anthracene oil , anthracene paste, distn . Lights****	91995-17-4	295-278-5	0.05
18	①蒽油, 蒽湖, 蒽馏分**** ① Anthracene oil, anthracene paste, anthracene fraction****	91995-15-2	295-275-9	0.05
19	①蒽油, 含蒽量少**** ① Anthracene oil, anthracene-low****	90640-82-7	292-604-8	0.05
20	①蒽油, 蒽湖**** ① Anthracene oil, anthracene paste****	90640-81-6	292-603-2	0.05
21	邻苯二甲酸二异丁酯 Diisobutyl phthalate	84-69-5	201-553-2	0.005
22	2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2	204-450-0	0.01
23	①煤焦油沥青, 高温 ① Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05
24	三(2-氯乙基)磷酸酯 Tris (2-chloroethyl) phosphate	115-96-8	204-118-5	0.01
25	②铬酸铅(C.I.颜料黄 34)*** ② Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.05
26	②钼铬红(C.I.颜料红 104)*** ② Lead chromate molybdate sulfate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	0.05
27	②铬酸铅(铬黄) ② Lead chromate: chrome yellow	7758-97-6	231-846-0	0.05
28	丙烯酰胺 Acrylamide	79-06-1	201-173-7	0.01
29	三氯乙烯 Trichloroethylene	79-01-6	201-167-4	0.005
30	硼酸* Boric acid *	10043-35-3; 11113-50-1	233-139-2; 234-343-4	0.01
31	③无水四硼酸二钠 ③ Disodium tetraborate, anhydrous	1330-43-4; 12179-04-3; 1303-96-4	215-540-4	0.01
32	③水合七氧四硼酸二钠 ③ Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	0.01
33	铬酸钠* Sodium chromate *	7775-11-3	231-889-5	0.01
34	铬酸钾* Potassium chromate*	7789-00-6	232-140-5	0.01
35	重铬酸铵* Ammonium dichromate*	7789-09-5	232-143-1	0.005
36	重铬酸钾 Potassium dichromate	7778-50-9	231-906-6	0.01
37	硫酸钴* Cobalt(II) sulphate *	10124-43-3	233-334-2	0.01
38	硝酸钴* Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01
39	碳酸钴* Cobalt(II) carbonate*	513-79-1	208-169-4	0.01

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40	醋酸钴* Cobalt(II) diacetate*	71-48-7	200-755-8	0.01
41	乙二醇单甲醚 2-Methoxyethanol	109-86-4	203-713-7	0.005
42	乙二醇单乙醚 2-Ethoxyethanol	110-80-5	203-804-1	0.005
43	三氧化铬* Chromium trioxide*	1333-82-0	215-607-8	0.01
44	铬酸*重铬酸* Chromic acid*Dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	0.01
45	1,2,3-三氯丙烷 1,2,3-trichloropropane	96-18-4	202-486-1	0.01
46	铬酸锶* Strontium chromate*	7789-06-2	232-142-6	0.01
47	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	203-839-2	0.01
48	①邻苯二甲酸二(C7-11 支链与直链)烷基酯 ①1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkylesters	68515-42-4	271-084-6	0.01
49	肼 Hydrazine	7803-57-8 302-01-2	206-114-9	0.01
50	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.01
51	①邻苯二甲酸二 C6-8 支链烷基酯 (C7 富集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.01
52	铬酸铬* Dichromium tris (chromate)*	24613-89-6	246-356-2	0.01
53	氢氧化铬酸锌钾* Potassium hydroxyoctaoxodizincatedi-chromate *	11103-86-9	234-329-8	0.01
54	锌黄 Pentazinc chromate octahydroxide	49663-84-5	256-418-0	0.01
55	②硅酸铝, 耐火陶瓷纤维** ②Aluminosilicate Refractory Ceramic Fibres (Al-RCF)**	-	-	0.05
56	②氧化锆硅酸铝, 耐火陶瓷纤维** ②Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	-	-	0.05
57	①甲醛与苯胺的聚合物▲ ①Formaldehyde, oligomeric reaction products with aniline (technical MDA)▲	25214-70-4	500-036-1	0.01
58	邻苯二甲酸二甲氧乙酯 Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005
59	邻甲氧基苯胺 2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005
60	对特辛基苯酚 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.005
61	1,2-二氯乙烷 1,2-Dichloroethane	107-06-2	203-458-1	0.005
62	二乙二醇二甲醚 Bis (2-methoxyethyl) ether	111-96-6	203-924-4	0.005
63	砷酸、原砷酸* Arsenic acid *	7778-39-4	231-901-9	0.01
64	砷酸钙* Calcium arsenate*	7778-44-1	231-904-5	0.01
65	砷酸铅* Trilead diarsenate*	3687-31-8	222-979-5	0.01

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66	N,N-二甲基乙酰(DMAC) N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005
67	2,2'-二氯-4,4'-二氨基二苯基甲烷(MOCA) 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005
68	酚酞 Phenolphthalein	77-09-8	201-004-7	0.005
69	迭氮化铅* Lead azide Lead diazide*	13424-46-9	236-542-1	0.01
70	2,4,6-三硝基苯二酚铅 * Lead styphnate*	15245-44-0	239-290-0	0.01
71	苦味酸铅* Lead dipicrate*	6477-64-1	229-335-2	0.01
72	三甘醇二甲醚(TEGDME))1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.01
73	1,2-二甲氧基乙烷(EGDME) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01
74	③三氧化二硼** ③Diboron trioxide**	1303-86-2	215-125-8	0.01
75	甲酰胺 Formamide	75-12-7	200-842-0	0.01
76	甲基磺酸铅 Lead(II)** Lead(II) bis(methanesulfonate) **	17570-76-2	401-750-5	0.01
77	1,3,5-三缩水甘油-S-三嗪三酮;异氰尿酸三缩水甘油酯 TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.01
78	1,3,5-三(环氧乙烷基甲基)-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮 立体异构体; β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	0.01
79	4,4'-二(N,N-二氨基)二苯甲酮; 米蚩酮;四甲基米氏酮 4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	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; N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.01
81	碱性紫 3*** [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5 -dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) ***	548-62-9	208-953-6	0.01
82	碱性蓝 26*** [4-[[4-anilino-1-naphthyl][4-(dimethylamino) phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) ***	2580-56-5	219-943-6	0.01
83	溶剂蓝 4*** α, α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol	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	561-41-1	209-218-2	0.01
85	十溴联苯醚 Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.05

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86	全氟十三酸 Pentacosfluorotridecanoic acid	72629-94-8	276-745-2	0.05
87	全氟十二酸 Tricosfluorododecanoic acid	307-55-1	206-203-2	0.05
88	全氟十一烷酸 Henicosfluoroundecanoic acid	2058-94-8	218-165-4	0.05
89	全氟十四酸 Heptacosfluorotetradecanoic acid	376-06-7	206-803-4	0.05
90	对特辛基苯酚乙氧基醚 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	-	-	0.05
91	^① 4-壬基苯酚, 支链和直链 ^① 4-Nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the Individual isomers or a combination thereof	-	-	0.05
92	偶氮二甲酰胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05
93	六氢邻苯二甲酸酐 顺式-六氢邻苯二甲酸酐 反式-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	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.05
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 4-Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.05
95	甲氧基乙酸 Methoxy acetic acid	625-45-6	210-894-6	0.05
96	^① 支链和直链 1,2-苯二羧二戊酯 ^① 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.01
97	邻苯二甲酸二异戊酯 Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.005
98	邻苯二甲酸正戊基异戊基酯 N-pentyl-isopentylphthalate	776297-69-9	-	0.005
99	乙二醇二乙醚 1,2-Diethoxyethane	629-14-1	211-076-1	0.05
100	N,N-二甲基甲酰胺 N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.05
101	二丁基二氯化锡 Dibutyltin dichloride (DBT)	683-18-1	211-670-0	0.05
102	碱式乙酸铅 Acetic acid, lead salt, basic	51404-69-4	257-175-3	0.01
103	碱式碳酸铅 Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6	215-290-6	0.01
104	碱式硫酸铅 Lead oxide sulfate (basic lead sulfate)	12036-76-9	234-853-7	0.01
105	二盐基邻苯二甲酸铅 [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	273-688-5	0.01

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106	双(十八酸基)二氧代三铅 Dioxobis (stearato) trilead	12578-12-0	235-702-8	0.01
107	C16-18-脂肪酸铅盐 Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	0.01
108	四氟硼酸铅 Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	0.01
109	氨基氰铅盐 Lead cyanamidate	20837-86-9	244-073-9	0.01
110	硝酸铅 Lead dinitrate	10099-74-8	233-245-9	0.01
111	氧化铅 Lead oxide (lead monoxide)	1317-36-8	215-267-0	0.01
112	四氧化三铅, 铅丹 Lead tetroxide (orange lead)	1314-41-6	215-235-6	0.01
113	钛酸铅 Lead titanium trioxide	12060-00-3	235-038-9	0.01
114	钛酸铅锆 Lead Titanium Zirconium Oxide	12626-81-2	235-727-4	0.01
115	氧化铅与硫酸铅的复合物 Pentalead tetraoxide sulphate	12065-90-6	235-067-7	0.01
116	颜料黄 41*** Pyrochlore, antimony lead yellow C.I.***	8012-00-8	232-382-1	0.01
117	铅掺杂的硅钡酸盐 Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5	0.01
118	硅酸铅 Silicic acid, lead salt	11120-22-2	234-363-3	0.01
119	亚硫酸铅 (II) Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	0.01
120	四乙基铅 Tetraethyllead	78-00-2	201-075-4	0.01
121	三碱式硫酸铅 Tetralead trioxide sulphate	12202-17-4	235-380-9	0.01
122	磷酸氧化铅 Trilead dioxide phosphonate	12141-20-7	235-252-2	0.01
123	呋喃 Furan	110-00-9	203-727-3	0.05
124	环氧丙烷 Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.05
125	硫酸二乙酯 Diethyl sulphate	64-67-5	200-589-6	0.05
126	硫酸二甲酯 Dimethyl sulphate	77-78-1	201-058-1	0.05
127	乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.05
128	地乐酚 (二硝丁酚) Dinoseb	88-85-7	201-861-7	0.05
129	4,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05
130	4,4'-二氨基二苯醚, 4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05
131	4-对氨基偶氮苯 4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.05

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序号 No.	测试项目 Test Items	CAS No.	EC No.	报告限值 Report Limit
132	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.05
133	2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.05
134	5-氨基联苯 6-Biphenyl-4-ylamine	92-67-1	202-177-1	0.05
135	邻氨基偶氮甲苯 o-aminoazotoluene	97-56-3	202-591-2	0.05
136	邻甲基苯胺 o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.05
137	N-甲基乙酰胺 N-methylacetamide	79-16-3	201-182-6	0.05
138	溴代正丙烷 1-bromopropane; n-propyl bromide	106-94-5	203-445-0	0.05
139	镉 Cadmium	7440-43-9	231-152-8	0.01
140	氧化镉 Cadmium oxide	1306-19-0	215-146-2	0.01
141	十五代氟辛酸铵盐 Ammonium pentadecafluorooctanoate	3825-26-1	223-320-4	0.01
142	全氟辛酸 Pentadecafluorooctanoic acid	335-67-1	206-397-9	0.01
143	邻苯二甲酸二正戊酯 Dipentyl phthalate	131-18-0	205-017-9	0.005
144	①乙氧基化的支链和直链的 4-壬基酚（直链和/或支链的具有 9 个碳原子的烷基链共价键合在 4 位的乙氧基酚，囊括了 UVCB 和定义明确的物质，聚合物及同系物，其中包括任何单独的异构体和/或它们的组合） ②4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB-and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-	0.05
145	硫化镉 Cadmium sulphide	1306-23-6	215-147-8	0.01
146	CI 直接红 28*** Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis (azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)***	573-58-0	209-358-4	0.01
147	CI 直接黑 38*** 38Disodium 4-amino-3- [[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5- hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate (C.I. Direct Black 38)***	1937-37-7	217-710-3	0.01
148	邻苯二甲酸二己酯(DHXP) Dihexyl phthalate (DHXP)	84-75-3	201-559-5	0.005
149	亚乙基硫脲 Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.01
150	醋酸铅(II) Lead di(acetate)	301-04-2	206-104-4	0.01

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序号 No.	测试项目 Test Items	CAS No.	EC No.	报告限值 Report Limit
151	①磷酸三(二甲苯)酯 ①Trixylyl phosphate	25155-23-1	246-677-8	0.01
152	氯化镉 cadmium dichloride	10108-64-2	233-296-7	0.01
153	①邻苯二甲酸二己酯(支链和直链) ①1,2-benzenedicarboxylic acid dihexyl ester branched and linear	68515-50-4	271-093-5	0.01
154	③过硼酸钠, 无水 ③Sodium peroxometaborate	7632-04-4	231-556-4	0.01
155	③过硼酸钠 ③Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0	0.01
156	氟化镉 Cadmium fluoride	7790-79-6	232-222-0	0.01
157	硫酸镉 Cadmium sulphate	10124-36-4; 31119-53-6	233-331-6	0.01
158	紫外吸收剂 UV-320	3846-71-7	223-346-6	0.01
159	紫外吸收剂 UV-328	25973-55-1	247-384-8	0.01
160	硫代甘醇酸异辛酯二正辛基锡 2-ethylhexyl 10-ethyl-4,4-dioctyl -7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	0.05
161	①DOTE 和 MOTE 反应产物 ①Reaction 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)	-	-	0.05
162	邻苯二甲酸二(C6-C10)烷基酯:(癸基, 己基, 辛基)酯与1,2-邻苯二甲酸的复合物, 及邻苯二甲酸二己酯 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; Di-n-hexyl phthalate (DnHP)	68515-51-5; 68648-93-1;	271-094-0; 272-013-1;	0.05
163	1,3 丙磺酸内酯 1,3-propanesultone	1120-71-4	214-317-9	0.01
164	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], 5-二叔丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷 [2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合] (卡拉花醛及其异构体以及它们的混合物) Karanal(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])	-	-	0.05
165	2,4 二叔丁基-6-(5-氯苯并三唑-2-基)苯酚 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol(uv-327)	3864-99-1	223-383-8	0.01
166	2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 2-2(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)	36437-37-3	253-037-1	0.01
167	硝基苯 Nitrobenzene	98-95-3	202-716-0	0.01
168	全氟壬酸及其钠盐和铵盐 Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.01

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序号 No.	测试项目 Test Items	CAS No.	EC No.	报告限值 Report Limit
169	苯并(a)芘 Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.01
170	双酚 A (BPA) 4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	0.001
171	全氟癸酸(PFDA)及其钠盐和铵盐 nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	206-400-3 221-470-5 -	0.01
172	7-叔戊基苯酚 8-4-tert-pentylphenol (PTAP)	80-46-6	201-280-9	0.01
173	支链与直链的 4-庚基酚 4-heptylphenol, branched and linear (4-HPbl)	-	-	0.01
174	全氟己烷-1-磺酸及其盐 Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.01
175	德克隆[包括所有反式和顺式异构体及其组合] 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 6,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.01
176	苯并[a]蒽 Benz[a]anthracene	56-55-3	200-280-6	0.01
177	硝酸镉 Cadmium nitrate	10325-94-7	233-710-6	0.01
178	碳酸镉 Cadmium carbonate	513-78-0	208-168-9	0.01
179	氢氧化镉 Cadmium hydroxide	21041-95-2	244-168-5	0.01
180	蒽 Chrysene	218-01-9	205-923-4	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] 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]	-	-	0.01
182	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 (TMA)	552-30-7	209-008-0	0.01
183	邻苯二甲酸二环己酯 Dicyclohexyl phthalate	84-61-7	201-545-9	0.01
184	八甲基环四硅氧烷 (D4) Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01
185	十甲基环五硅氧烷 (D5) Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01
186	十二甲基环六硅氧烷 (D6) Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01
187	铅 Lead	7439-92-1	231-100-4	0.01
188	氧化硼钠 Isodium octaborate	12008-41-2	234-541-0	0.01
189	苯并(g,h,i)芘(二萘嵌苯) (BPE) Benzo[ghi]perylene(BPE)	191-24-2	205-883-8	0.01
190	氢化三联苯 Terphenyl hydrogenated	61788-32-7	262-967-7	0.01

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序号 No.	测试项目 Test Items	CAS No.	EC No.	报告限值 Report Limit
191	乙二胺 (EDA) Ethylenediamine(EDA)	107-15-3	203-468-6	0.01
192	2, 2 -双(4'-羟基苯基) - 4 -甲基戊烷 2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.01
193	苯并[k]荧 Benzo[k]fluoranthene	207-08-9	205-916-6	0.01
194	荧蒽 Fluoranthene	206-44-0	205-912-4	0.01
195	菲 Phenanthrene	85-01-8	201-581-5	0.01
196	芘 Pyrene	129-00-0	204-927-3	0.01
197	1,7,7-三甲基-3-(苯亚甲基)双环[2,2,1]庚-2-酮(3-亚苄基樟脑) Undecafluorohexanoic acid and its ammonium salt	239-139-9	15087-24-8	0.01
198	4-叔丁基苯酚 5-4-tert-butylphenol	98-54-4	202-679-0	0.01
199	HFPO-DA 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) HFPO-DA 2,3,3,3-tetrafluoro-2 (heptafluoropropoxy) propionic acid, its salts and acid halides (including their respective isomers and combinations thereof)	-	-	0.01
200	乙二醇乙醚乙酸酯 Methyl glycol ether acetate	110-49-6	203-772-9	0.01
201	三(4-壬基苯, 支链和直链)亚磷酸酯(TNPP) [4-壬基酚, 支链和直链(4-NP)含量 ≥0.1% w/w] Tris (4-nonylbenzene, branched and linear) phosphite (TNPP), [with ≥0.1% w / w4-nonylphenol, branched and linear (4-NP)]	-	-	0.01
202	2-苄基-2-二甲氨基-1-(4-吗啉苯基)丁酮 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	-	0.01
203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	-	0.01
204	邻苯二甲酸二异己酯 Diisohexyl phthalate	71850-09-4	276-090-2	0.01
205	全氟丁烷磺酸(PFBS)及其盐 Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.01N
206	1-乙烯基咪唑 2-1-vinylimidazole	1072-63-5	214-012-0	0.01
207	2-甲基咪唑 3-2-methylimidazole	693-98-1	211-765-7	0.01
208	4-羟基苯甲酸丁酯 Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.01
209	二正丁基双(乙酰丙酮基)锡 Dibutylbis (pentane-2 , 4- dionato- O , O) tin	22673-19-4	245-152-0	0.01
210	双(2-(2-甲氧基乙氧基)乙基)醚 Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	0.01

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序号 No.	测试项目 Test Items	CAS No.	EC No.	报告限值 Report Limit
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 Dioctyltin dilaurate, stannane, dioctyl-, bis(cocoyloxy) derivatives, and any other stannane, dioctyl-, bis(fatty acyloxy) derivatives. Where C12 is the main carbon number of the fatty acyloxy moiety	-	-	0.01
212	1,4-二氧六环 (二恶烷) 1,4-dioxane	123-91-1	204-661-8	0.05
213	2,2-双(溴甲基)-1,3-丙二醇 (BMP); 三溴新戊醇 (TBNPA); 2,3-二溴-1-丙醇 (2,3-DBPA) 2,2-bis(bromomethyl)-1,3-propanediol(BMP);2,2-dimethylpropan-1-ol,tribromoderivative/3-bromo-2,2-bis(bromomethyl)-1-propanol(TBNPA);2,3-dibromo-1-propanol(2,3-DBPA)	3296-90-0 36483-57-5/ 1522-92-5 96-13-9	221-967-7 253-057-0 202-480-9	0.05
214	2-(4-叔丁基苄基)丙醛及其立体异构体 2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	-	0.05
215	4,4'-(1-甲基亚丙基)双酚 (双酚 B) 4,4'-(1-methylpropylene) bisphenol(Bisphenol B)	77-40-7	201-025-1	0.05
216	戊二醛 Glutaral	111-30-8	203-856-5	0.05
217	中链氯化石蜡 (MCCP) [UVCA 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) [UVCA substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths between C14 and C17]	-	-	0.05
218	原硼酸, 钠盐 Orthoboric acid, sodium salt	13840-56-7	237-560-2	0.01
219	烷基酚, 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 alkyl chains from oligomerisation, covering any single isomer or combinations thereof (PDDP)	-	-	0.05

注释 (Note) :

- w/w%=质量百分比
w/w% = weight by weight
- ND =未检出或低于方法检出限
ND = Not Detected or less than MDL
- *:该物质的浓度值是由物质中的特征元素测试结果换算来的。
- 三丁基氧化锡(TBTO)、二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE)、二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE)和三(2-乙基己基巯基乙酸)辛锡(MOTE)的反应物料浓度值是由其特定化合物(三丁基锡(TBT)、二辛基锡(DOT)、单辛基锡(MOT))的结果换算而来。
*:Concentration value of the substance by the conversion from the test results of certain elements.
Concentration value of Bis(tributyltin)oxide(TBTO), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), 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) by the conversion from the test results of certain compounds (Tributyl Tins(TBT), Dioctyl Tins(DOT),Monooctyl Tins(MOT)).
- **:在化学物质及其混合物的分类, 标记与包装法规, 即 CLP 法规(法规(EC)No 1272/2008)的附录 VI 中, 索引号 650-017-00-8 适用于所有的耐火陶瓷纤维材料。
**:.All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation(Regulation (EC) No 1272/2008).
- ***:C.I.:染料索引号
***:C.I.: Colour Index
- ****:蒸馏所分离出来的轻油部分
****:Light fractions from distillation
- *****:四硼酸钠, 无水 and 四硼酸钠, 水合物的浓度均由四硼酸钠浓度表示, 没有考虑结晶水。过硼酸钠, 水合物; 过硼酸钠盐和过

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硼酸钠, 无水的浓度均由过硼酸钠浓度表示, 没有考虑结晶水。

****:Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.

- ▲:甲醛苯胺共聚物的浓度值是由其特定化合物(2,4-二氨基二苯甲烷、4,4'-二氨基二苯基甲烷、2,6-二氨基二苯基甲烷)的结果换算而来。

▲: Concentration value of Formaldehyde, oligomeric reaction products with aniline (technical MDA) by the conversion from the test results of certain compounds (2,4-Diaminodiphenylmethane, 4,4'- Diaminodiphenylmethane, 2,6-Diaminodiphenylmethane).

- ①:由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所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。

①:In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

- ②:由于此物质含有多种物质, 测试结果是基于此物质中最具有代表性的主要组成化合物的含量, 其主要造成化合物的测试结果是基于特征元素的浓度换算而来。

②:In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.

- ③:硼酸; 四硼酸钠, 无水; 四硼酸钠, 水合物; 三氧化二硼; 过硼酸钠, 水合物; 过硼酸钠盐和过硼酸钠, 无水的浓度值是由物质中的特征元素测试结果换算而来, 并用适当溶剂萃取进行确认, 同时建议客户检查化学配方表进一步确认是否含有上述化合物。

③:Concentration value of Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate; Diboron trioxide; Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.

附加信息 (Remark):

根据欧盟 REACH 法规 (编号 1907/2006) 第 33 条款之规定, 物品类产品如果含有候选列表上的高度关注物质且在物品中的质量百分比超过 0.1%时, 物品供应方需履行相关信息传递义务

Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

物品供应方应提供给接收方关于产品的足够信息以确保物品的安全使用, 至少需提供所含高度关注物质的名称。

Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.

应消费者请求, 物品供应方应在 45 天内免费提供关于产品的足够信息以确保物品的安全使用, 至少需提供所含高度关注物质的名称。

On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.

根据欧盟 REACH 法规 (编号 1907/2006) 第 31 条款及附件 2 之规定, 提供高度关注物质的物质类产品供应方, 应免费提供接收方该物质的安全数据表。

According to Article 31 and Annex 2 of the EU REACH Regulation (No. 1907/2006), the supplier of substance products that provide substances of very high concern shall provide the recipient with the safety data sheet of the substance free of charge.

根据欧盟 REACH 法规 (编号 1907/2006) 第 31、32 条款及附件 2 之规定, 提供含有高度关注物质的混合物产品供应方需传递相关信息:

According to the provisions of Article 31, 32 and Annex 2 of the EU REACH Regulation (No. 1907/2006), suppliers of products that provide mixtures containing substances of very high concern need to transmit relevant information:

如果混合物产品按照 1999/45/EC 被判定为危险品时, 供应方应免费提供产品的安全数据表。

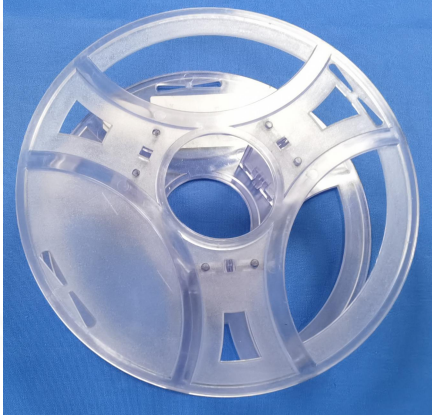
Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.

如果混合物产品按照 1999/45/EC 判定并非危险品, 但是任一高度关注物质在非气体混合物中质量分数超过 0.1%或在气体混合物中体积分数超过 0.2%, 供应方也应免费提供产品的安全数据表。

Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous.

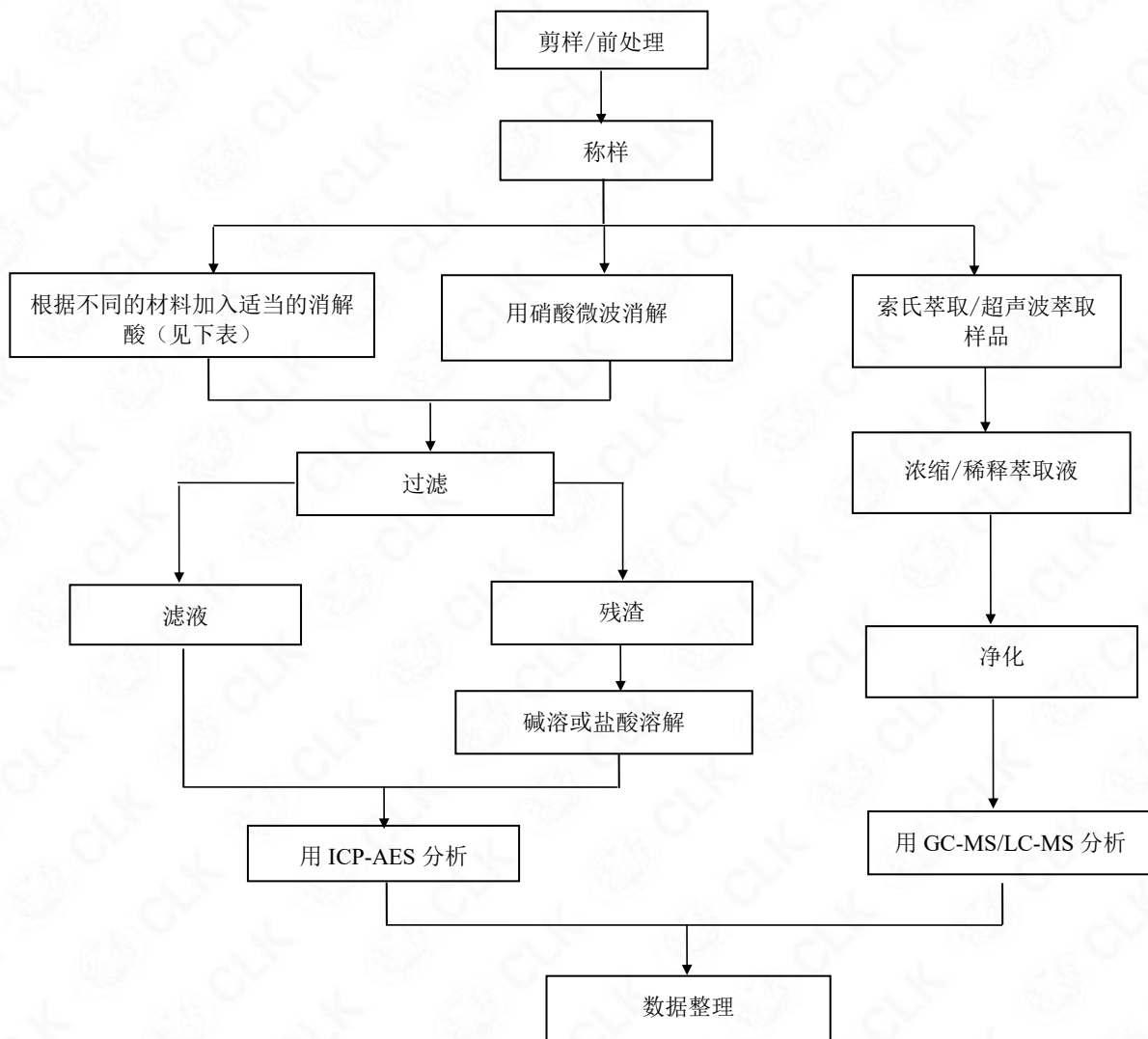
检测报告

样品图片 (Sample picture) :



T211203004-3

测试流程图:

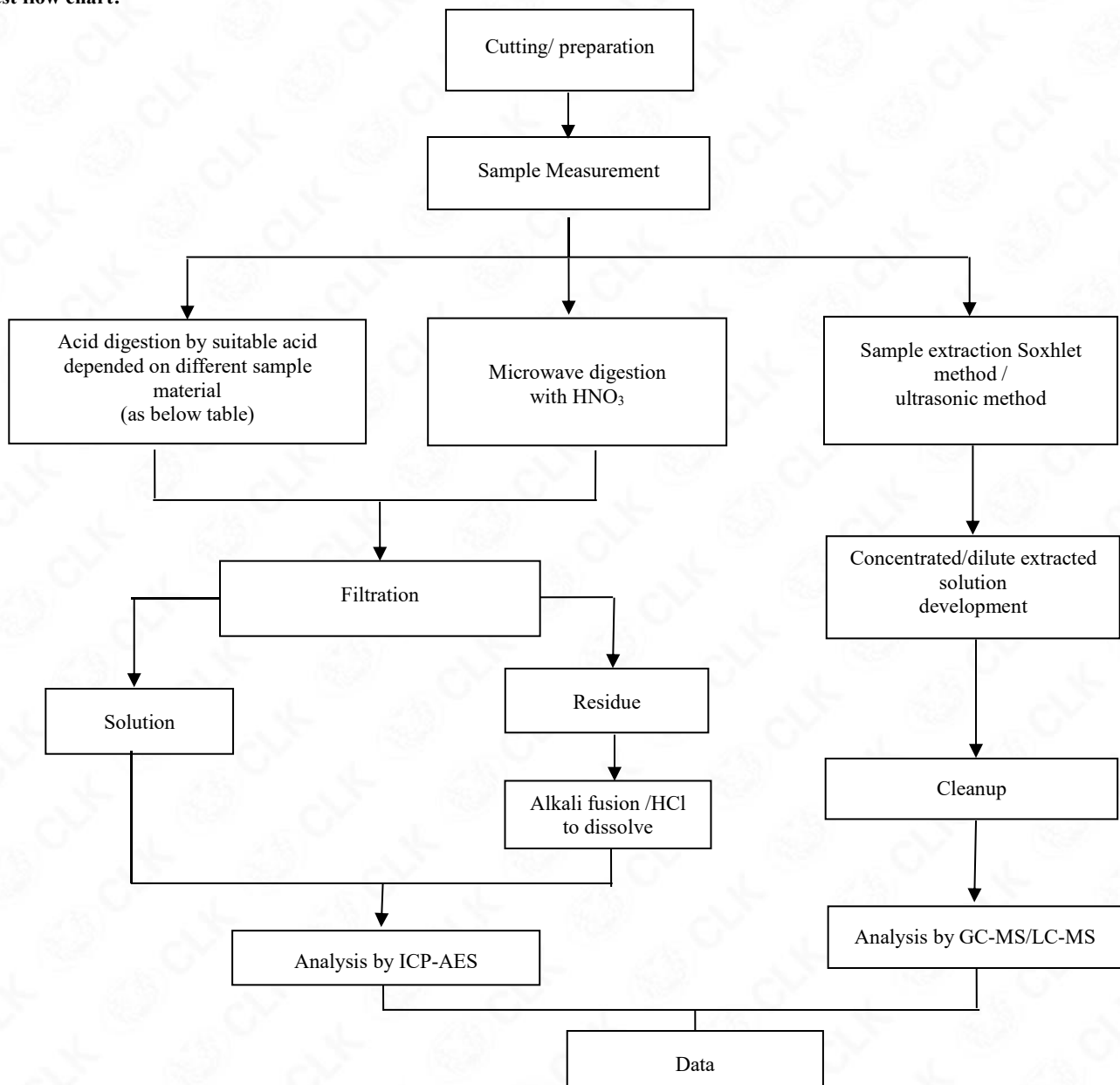


检测报告

表格:

样品材质	消解液
铁, 铜, 铝, 焊料	王水, 硝酸, 盐酸, 氢氟酸, 双氧水
玻璃	硝酸/氢氟酸
金, 铂, 钯, 陶瓷	王水
银	硝酸
塑料	硫酸, 双氧水, 硝酸, 盐酸
其它	任何酸均可用于测总含量

Test flow chart:



检测报告

Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

————— 以下空白 —————

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注 (Notes):

1. 本检测报告仅对检测样品负责。

The results relate only to the test sample(s).

2. 未经本实验室书面批准，不得部分复制此报告。

This report shall not be duplicated partially except with the written approval of the our laboratory.

3. 检测报告无批准人签字及报告专用章无效。

The test reports is invalid without the signature of the approver and the special seal for the report.

4. 若对检测数据有异议，可在本报告发出 15 日内提出申诉。逾期不予受理。

If you have any objections to the test data, you can file an appeal within 15 days of the issuance of this report. Overdue will not be accepted.

5. 未加盖资质认定标志 (CMA) 的报告，仅作为科研、教学、企业内部质量控制、产品研发等目的用。

The report without the certification mark (CMA) is only used for scientific research, teaching, enterprise internal quality control, product development and other purposes.