



测试报告

报告编号: HLF21008613C

日期: 2021 年 8 月 16 日

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申请单位 : 东莞市鸿仁包装器材有限公司

地 址 : 东莞市黄江镇长龙管理区志中工业园F栋2楼

以下样品及样品信息由申请者提供并确认

样品名称 : 打包带

样品型号 : /

样品批号 : /

送样日期 : 2021年8月10日

完成日期 : 2021年8月16日

测试要求 : 根据客户要求,基于欧洲化学品管理署截止2021年7月8日公布的供授权审议的高关注物质候选清单(根据欧盟第1907/2006号REACH法规),对219种高关注物质(SVHC)进行筛分测试。

测试方法 : 内部方法, 采用ICP-OES, UV-VIS, LC-MS, GC-MS和比色法分析。

测试结果 : 详见后续页

测试结论 :

根据具体的范围和筛分测试, 所提交样品中SVHC测试结果 $\leq 0.1\%$ (w/w)

通过

审核:

实验室高级工程师

授权签字:

技术经理

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FLION TESTING TECHNOLOGIES

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REACH高度关注物质测试结果:

序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
1	4,4'-二氨基二苯甲烷	101-77-9	202-974-4	0.05	N.D.
2	5-叔丁基-2,4,6-三硝基间二甲苯 (二甲苯麝香)	81-15-2	201-329-4	0.05	N.D.
3	短链氯化石蜡(C10-13)	85535-84-8	287-476-5	0.05	N.D.
4	蒽	120-12-7	304-371-1	0.05	N.D.
5	邻苯二甲酸甲苯基丁酯 (BBP)	85-68-7	201-622-7	0.05	N.D.
6	邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	204-211-0	0.05	N.D.
7	氧化双三丁基锡(TBTO)*	56-35-9	200-268-0	0.05	N.D.
8	二氯化钴*	7646-79-9	231-589-4	0.05	N.D.
9	五氧化二砷*	1303-28-2	215-116-9	0.05	N.D.
10	三氧化二砷*	1327-53-3	215-481-4	0.05	N.D.
11	邻苯二甲酸二丁酯 (DBP)	84-74-2	201-557-4	0.05	N.D.
12	六溴环十二烷(HBCDD)及所有主要被辨别出的非对映异构物: α -HBCDD β -HBCDD γ -HBCDD	25637-99-4 3194-55-6 (134237-51-7 134237-50-6 134237-52-8)	247-148-4 221-695-9	0.05	N.D.
13	砷酸氢铅*	7784-40-9	232-064-2	0.05	N.D.
14	重铬酸钠*	10588-01-9 7789-12-0	234-190-3	0.05	N.D.
15	三乙基砷酸酯*	15606-95-8	427-700-2	0.05	N.D.
16	2,4-二硝基甲苯	121-14-2	204-450-0	0.05	N.D.
17	丙烯酰胺	79-06-1	201-173-7	0.05	N.D.

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序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
18	葱油*	90640-80-5	292-602-7	0.05	N.D.
19	葱油、葱糊*	90640-81-6	292-603-2	0.05	N.D.
20	葱油、葱糊、葱馏分*	91995-15-2	295-275-9	0.05	N.D.
21	葱油、葱糊、轻油*	91995-17-4	295-278-5	0.05	N.D.
22	葱油、含葱量少*	90640-82-7	292-604-8	0.05	N.D.
23	邻苯二甲酸二异丁酯 (DIBP)	84-69-5	201-553-2	0.05	N.D.
24	铬酸铅*	7758-97-6	231-846-0	0.05	N.D.
25	钼铬红(C.I.颜料红 104)*	12656-85-8	235-759-9	0.05	N.D.
26	铅铬黄(C.I.颜料黄 34)*	1344-37-2	215-693-7	0.05	N.D.
27	沥青, 煤焦油, 高温*	65996-93-2	266-028-2	0.05	N.D.
28	磷酸三(2-氯乙基)酯	115-96-8	204-118-5	0.05	N.D.
29	重铬酸铵*	7789-09-5	232-143-1	0.05	N.D.
30	硼酸*	10043-35-3 11113-50-1	233-139-2 234-343-4	0.05	N.D.
31	无水四硼酸钠*	1303-96-4 1330-43-4 12179-04-3	215-540-4	0.05	N.D.
32	铬酸钾*	7789-00-6	232-140-5	0.05	N.D.
33	重铬酸钾*	7778-50-9	231-906-6	0.05	N.D.
34	铬酸钠*	7775-11-3	231-889-5	0.05	N.D.
35	水合硼酸钠*	12267-73-1	235-541-3	0.05	N.D.
36	三氯乙烯	79-01-6	201-167-4	0.05	N.D.

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序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
37	乙二醇乙醚	110-80-5	203-804-1	0.05	N.D.
38	乙二醇甲醚	109-86-4	203-713-7	0.05	N.D.
39	从三氧化铬产生的酸类以及它们的低聚物:铬酸、重铬酸、铬酸和重铬酸的低聚物:*	7738-94-5 13530-68-2	231-801-5 236-881-5	0.05	N.D.
40	三氧化铬*	1333-82-0	215-607-8	0.05	N.D.
41	碳酸钴*	513-79-1	208-169-4	0.05	N.D.
42	乙酸钴*	71-48-7	200-755-8	0.05	N.D.
43	硝酸钴*	10141-05-6	233-402-1	0.05	N.D.
44	硫酸钴*	10124-43-3	233-334-2	0.05	N.D.
45	1,2,3-三氯丙烷	96-18-4	202-486-1	0.05	N.D.
46	邻苯二甲酸二(C6-8)支链烷基酯(富 C7)	71888-89-6	276-158-1	0.05	N.D.
47	邻苯二甲酸二(C7-11 支链与直链)烷基酯 (DHNUP)	68515-42-4	271-084-6	0.05	N.D.
48	N-甲基吡咯烷酮	872-50-4	212-828-1	0.05	N.D.
49	乙二醇乙醚乙酸酯	111-15-9	203-839-2	0.05	N.D.
50	联氨	7803-57-8 302-01-2	206-114-9	0.05	N.D.
51	铬酸镧*	7789-06-2	232-142-6	0.05	N.D.
52	1,2-二氯乙烷	107-06-2	203-458-1	0.05	N.D.
53	4,4'-亚甲基双(2-氯苯胺)	101-14-4	202-918-9	0.05	N.D.
54	邻氨基苯甲醚	90-04-0	201-963-1	0.05	N.D.
55	对特辛基苯酚	140-66-9	205-426-2	0.05	N.D.

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序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
56	硅酸铝耐火陶瓷纤维*	650-017-00-8 (Index No.)	--	0.05	N.D.
57	砷酸*	7778-39-4	231-901-9	0.05	N.D.
58	双(2-甲氧基乙基)醚	111-96-6	203-924-4	0.05	N.D.
59	邻苯二甲酸二甲氧基乙酯	117-82-8	204-212-6	0.05	N.D.
60	砷酸钙*	7778-44-1	231-904-5	0.05	N.D.
61	铬酸铬*	24613-89-6	246-356-2	0.05	N.D.
62	甲醛与苯胺的聚合物	25214-70-4	500-036-1	0.05	N.D.
63	叠氮化铅*	13424-46-9	236-542-1	0.05	N.D.
64	苦味酸铅*	6477-64-1	229-335-2	0.05	N.D.
65	斯蒂芬酸铅*	15245-44-0	239-290-0	0.05	N.D.
66	N,N-二甲基乙酰胺	127-19-5	204-826-4	0.05	N.D.
67	氢氧化铬酸锌*	49663-84-5	256-418-0	0.05	N.D.
68	酚酞	77-09-8	201-004-7	0.05	N.D.
69	氢氧化铬酸锌钾*	11103-86-9	234-329-8	0.05	N.D.
70	砷酸铅*	3687-31-8	222-979-5	0.05	N.D.
71	氧化锆硅酸铝耐火陶瓷纤维*	650-017-00-8 (Index No.)	--	0.05	N.D.
72	碱性蓝 26	2580-56-5	219-943-6	0.05	N.D.
73	结晶紫	548-62-9	208-953-6	0.05	N.D.
74	三甘醇二甲醚	112-49-2	203-977-3	0.05	N.D.
75	1,2 二甲氧基乙烷	110-71-4	203-794-9	0.05	N.D.

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序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
76	4,4'-四甲基二胺二苯酮	90-94-8	202-027-5	0.05	N.D.
77	4,4'-二(二甲氨基)-4"-甲氨基三苯甲醇	561-41-1	209-218-2	0.05	N.D.
78	三氧化二硼*	1303-86-2	215-125-8	0.05	N.D.
79	甲酰胺	75-12-7	200-842-0	0.05	N.D.
80	甲基磺酸铅*	17570-76-2	401-750-5	0.05	N.D.
81	4,4'-亚甲基双(N,N-二甲基苯胺)	101-61-1	202-959-2	0.05	N.D.
82	异氰尿酸三缩水甘油酯	2451-62-9	219-514-3	0.05	N.D.
83	溶剂蓝 4	6786-83-0	229-851-8	0.05	N.D.
84	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)	59653-74-6	423-400-0	0.05	N.D.
85	二盐基邻苯二甲酸铅*	69011-06-9	273-688-5	0.05	N.D.
86	支链和直链 1,2-苯二羧二戊酯	84777-06-0	284-032-2	0.05	N.D.
87	乙二醇二乙醚	629-14-1	211-076-1	0.05	N.D.
88	溴代正丙烷	106-94-5	203-445-0	0.05	N.D.
89	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-噁唑烷	143860-04-2	421-150-7	0.05	N.D.
90	乙氧化 4-(1,1,3,3-四甲基丁基)苯酚	--	--	0.05	N.D.
91	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	212-658-8	0.05	N.D.
92	4,4'-二氨基二苯醚及其盐	101-80-4	202-977-0	0.05	N.D.
93	4-氨基偶氮苯	60-09-3	200-453-6	0.05	N.D.
94	2,4-二氨基甲苯	95-80-7	202-453-1	0.05	N.D.

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序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
95	4-壬基酚, 支化或者线性	--	--	0.05	N.D.
96	2-甲氧基-5-甲基苯胺	120-71-8	204-419-1	0.05	N.D.
97	碱式乙酸铅*	51404-69-4	257-175-3	0.05	N.D.
98	4-氨基联苯	92-67-1	202-177-1	0.05	N.D.
99	十溴联苯醚	1163-19-5	214-604-9	0.05	N.D.
100	环己烷-1,2-二羧酸酐 顺式-环己烷-1,2-二羧酸酐 反式-环己烷-1,2-二羧酸酐	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.05	N.D.
101	偶氮二甲酰胺	123-77-3	204-650-8	0.05	N.D.
102	二丁基二氯化锡	683-18-1	211-670-0	0.05	N.D.
103	硫酸二乙酯	64-67-5	200-589-6	0.05	N.D.
104	邻苯二甲酸二异戊酯	605-50-5	210-088-4	0.05	N.D.
105	硫酸二甲酯	77-78-1	201-058-1	0.05	N.D.
106	地乐酚	88-85-7	201-861-7	0.05	N.D.
107	双(十八烷基)二氧化三铅*	12578-12-0	235-702-8	0.05	N.D.
108	C16-18-脂肪酸铅盐*	91031-62-8	292-966-7	0.05	N.D.
109	呋喃	110-00-9	203-727-3	0.05	N.D.
110	全氟十一烷酸	2058-94-8	218-165-4	0.05	N.D.
111	全氟代十四酸	376-06-7	206-803-4	0.05	N.D.
112	甲基六氢邻苯二甲酸酐、 4-甲基六氢邻苯二甲酸酐、 1-甲基六氢邻苯二甲酸酐、 3-甲基六氢邻苯二甲酸酐	25550-51-0 19438-60-9 48122-14-1 57110-29-9	247-094-1 243-072-0 256-356-4 260-566-1	0.05	N.D.

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113	氟硼酸铅*	13814-96-5	237-486-0	0.05	N.D.
114	氨基氰铅盐*	20837-86-9	244-073-9	0.05	N.D.
115	硝酸铅*	10099-74-8	233-245-9	0.05	N.D.
116	氧化铅*	1317-36-8	215-267-0	0.05	N.D.
117	碱式硫酸铅*	12036-76-9	234-853-7	0.05	N.D.
118	四氧化三铅*	1314-41-6	215-235-6	0.05	N.D.
119	钛酸铅*	12060-00-3	235-038-9	0.05	N.D.
120	钛酸铅铅*	12626-81-2	235-727-4	0.05	N.D.
121	甲氧基乙酸	625-45-6	210-894-6	0.05	N.D.
122	环氧丙烷	75-56-9	200-879-2	0.05	N.D.
123	N,N-二甲基甲酰胺	68-12-2	200-679-5	0.05	N.D.
124	N-甲基乙酰胺	79-16-3	201-182-6	0.05	N.D.
125	邻苯二甲酸正戊基异戊基酯	776297-69-9	--	0.05	N.D.
126	邻氨基偶氮甲苯	97-56-3	202-591-2	0.05	N.D.
127	邻甲基苯胺	95-53-4	202-429-0	0.05	N.D.
128	全氟十三酸	72629-94-8	276-745-2	0.05	N.D.
129	氧化铅与硫酸铅的复合物*	12065-90-6	235-067-7	0.05	N.D.
130	颜料黄 41*	8012-00-8	232-382-1	0.05	N.D.
131	参杂铅的硅酸钡盐*	68784-75-8	272-271-5	0.05	N.D.
132	硅酸铅*	11120-22-2	234-363-3	0.05	N.D.

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133	亚硫酸铅(II)*	62229-08-7	263-467-1	0.05	N.D.
134	四乙基铅*	78-00-2	201-075-4	0.05	N.D.
135	三碱式硫酸铅*	12202-17-4	235-380-9	0.05	N.D.
136	全氟十二烷酸	307-55-1	206-203-2	0.05	N.D.
137	碱式碳酸铅*	1319-46-6	215-290-6	0.05	N.D.
138	二碱式亚磷酸铅*	12141-20-7	235-252-2	0.05	N.D.
139	乙氧基化的支链和直链的 4-壬基酚	--	--	0.05	N.D.
140	全氟辛酸铵(APFO)	3825-26-1	223-320-4	0.05	N.D.
141	氧化镉*	1306-19-0	215-146-2	0.05	N.D.
142	镉	7440-43-9	231-152-8	0.05	N.D.
143	邻苯二甲酸二戊酯(DPP)	131-18-0	205-017-9	0.05	N.D.
144	全氟辛酸(PFOA)	335-67-1	206-397-9	0.05	N.D.
145	硫化镉*	1306-23-6	215-147-8	0.05	N.D.
146	邻苯二甲酸二己酯(DnHP)	84-75-3	201-559-5	0.05	N.D.
147	C.I.直接红 28	573-58-0	209-358-4	0.05	N.D.
148	C.I.直接黑 38	1937-37-7	217-710-3	0.05	N.D.
149	2-巯基咪唑啉	96-45-7	202-506-9	0.05	N.D.
150	醋酸铅*	301-04-2	206-104-4	0.05	N.D.
151	磷酸三(二甲苯)酯	25155-23-1	246-677-8	0.05	N.D.
152	邻苯二甲酸二己酯(支链和直链)	68515-50-4	271-093-5	0.05	N.D.

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测试报告

报告编号: HLF21008613C

日期: 2021 年 8 月 16 日

第 10 页, 共 15 页

序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
153	氯化镉*	10108-64-2	233-296-7	0.05	N.D.
154	过硼酸钠水合物*	--	239-172-9 234-390-0	0.05	N.D.
155	过硼酸钠*	7632-4-4	231-556-4	0.05	N.D.
156	2-(2'-羟基-3',5'-二-叔-戊基苯基)苯並三唑 紫外吸收剂 UV328	25973-55-1	247-284-8	0.05	N.D.
157	2-[2-羟基-3',5'-二-叔-丁基苯基]-苯並三唑 紫外吸收剂 UV 320	3846-71-7	223-346-6	0.05	N.D.
158	二正辛基-双(2-乙基己基巯基乙酸酯) 锡	15571-58-1	239-622-4	0.05	N.D.
159	氟化镉*	7790-79-6	232-222-0	0.05	N.D.
160	硫酸镉*	10124-36-4 31119-53-6	233-331-6	0.05	N.D.
161	二正辛基-双(2-乙基己基巯基乙酸酯) 锡和单辛基-三(2-乙基己基巯基乙酸酯) 锡的反应物	--	--	0.05	N.D.
162	邻苯二甲酸二(C6-C10)烷基酯	--	--	0.05	N.D.
163	卡拉花醛	117933-89-8	--	0.05	N.D.
164	硝基苯	98-95-3	202-716-0	0.05	N.D.
165	UV-327	3864-99-1	223-383-8	0.05	N.D.
166	UV-350	36437-37-3	253-037-1	0.05	N.D.
167	1,3-丙烷磺内酯	1120-71-4	214-317-9	0.05	N.D.
168	全氟壬酸及其钠盐和氨盐	375-95-1 21049-39-8 4149-60-4	206-801-3	0.05	N.D.
169	苯并芘	200-028-5	50-32-8	0.05	N.D.
170	4,4'-亚异丙基二酚 (双酚 A)	1980/5/7	201-245-8	0.05	N.D.

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测试报告

报告编号: HLF21008613C

日期: 2021 年 8 月 16 日

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序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
171	4-庚基苯酚,直链和支链{苯酚的 4 号位被碳原子数为 7 的烷基取代的产物,包括 UACB-、所有单一同分异构体及其组合}	/	/	0.05	N.D.
172	全氟癸酸 (PEDA) 及其钠盐和铵盐	3108-42-7 335-76-2 3830-45-3	/ 206-400-3 221-470-5	0.05	N.D.
173	p-(1,1 戊基)苯酚	80-46-6	201-280-9	0.05	N.D.
174	全氟己基磺酸及其盐类 (PFHxS)	355-46-4	206-587-1	0.05	N.D.
175	屈	218-01-9	205-923-4	0.05	N.D.
176	苯并[a]蒽	56-55-3	200-280-6	0.05	N.D.
177	硝酸镉*	10325-94-7	233-710-6	0.05	N.D.
178	氢氧化镉*	21041-95-2	244-168-5	0.05	N.D.
179	碳酸镉*	513-78-0	208-168-9	0.05	N.D.
180	十氯三环十八碳二烯 (包含任何顺式与反式同分异构物或其他组成)	13560-89-9 135821-74-8 135821-03-3	/	0.05	N.D.
181	1,3,4-噻二唑-2,5-二硫酮、甲醛与支链和直链 4-庚基苯酚的反应产物 (含有支链和直链 4-庚基苯酚重量比大于或等于 0.1%)	/	/	0.05	N.D.
182	邻苯二甲酸二环己酯	84-61-7	201-545-9	0.05	N.D.
183	1,2,4-苯三酸酐 (偏苯三酸酐)	552-30-7	209-008-0	0.05	N.D.
184	苯并 (g,h,i) 花 (二萘嵌苯) (BPE)	191-24-2	205-883-8	0.05	N.D.
185	十甲基环五硅氧烷 (D5)	541-02-6	208-764-9	0.05	N.D.

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测试报告

报告编号: HLF21008613C

日期: 2021 年 8 月 16 日

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序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
186	氧化硼钠*	12008-41-2	234-541-0	0.05	N.D.
187	十二甲基环六硅氧烷 (D6)	540-97-6	208-762-8	0.05	N.D.
188	乙二胺	107-15-3	203-468-6	0.05	N.D.
189	铅*	7439-92-1	231-100-4	0.05	N.D.
190	八甲基环四硅氧烷 (D4)	556-67-2	209-136-7	0.05	N.D.
191	氢化三联苯	61788-32-7	262-967-7	0.05	N.D.
192	4,4'-(1,3-二甲基丁基)二苯酚 (1,3-DMBBP)	6807-17-6	401-720-1	0.05	N.D.
193	苯并(k)荧蒹 (BkF)	207-08-9	205-916-6	0.05	N.D.
194	荧蒹 (FLT)	206-44-0	205-912-4	0.05	N.D.
195	菲 (PHE)	85-01-8	201-581-5	0.05	N.D.
196	芘 (PYR)	129-00-0	204-927-3	0.05	N.D.
197	1,7,7--3-(苯)双环[2,2,1]庚-2-酮 (又称 3-亚)	15087-24-8	239-139-9	0.05	N.D.
198	4-叔丁基苯酚 (PTBP)	98-54-4	202-679-0	0.05	N.D.
199	2,3,3,3, -四氟-2-(七氟丙氧基) 丙酸及其盐和酰基卤化物 (包括 单体和组合) (HFPO-DA)	--	--	0.05	N.D.
200	2-甲氧基乙基乙酸酯	110-49-6	203-772-9	0.05	N.D.
201	三(4-壬基苯基, 支链和直链) 亚磷酸酯 (TNPP) (含≥0.1% 的支链和直链 4-壬基苯基)	--	--	0.05	N.D.
202	2-苄基-2-二甲基氨基-4-吗啉基 苯基丁酮	119313-12-1	404-360-3	0.05	N.D.
203	2-甲基-1-(4-甲硫基苯基)-2-吗 啉基-1-丙酮	71868-10-5	404-360-3	0.05	N.D.

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序号	测试项目	CAS 号	EC 号	RL(%)	结果(%)
204	邻苯二甲酸二异己酯	71850-09-04	276-090-2	0.05	N.D.
205	全氟丁烷磺酸及其盐	--	--	0.05	N.D.
206	1-乙烯基咪唑	1072-63-5	214-012-0	0.05	N.D.
207	2-甲基咪唑	693-98-1	211-765-7	0.05	N.D.
208	对羟基苯甲酸丁酯	94-26-8	202-318-7	0.05	N.D.
209	双(乙酰丙酮基) 二丁基锡*	22673-19-4	245-152-0	0.05	N.D.
210	四乙二醇二甲醚	143-24-8	20594-7	0.05	N.D.
211	二辛基二月桂酸锡;锡烷,二辛基,双(椰油酰氧基)衍生物;以及其他任何锡烷,二辛基,双(脂肪酰氧基)衍生物,其中脂肪酰氧基基团的主要碳原子数为 12*	--	--	0.05	N.D.
212	1,4-二噁烷	123-91-1	204-661-8	0.05	N.D.
213	2,2-双(溴甲基)-1,3-丙二醇(BMP)三溴新戊醇/3-溴-2,2-二(溴甲基)丙醇(TBNPA)2,3-二溴丙醇(2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	221-967-8 253-057-0 202-480-9	0.05	N.D.
214	2-(4-叔丁基苄基)丙醛及其立体异构体	--	--	0.05	N.D.
215	双酚 B(BPB)	77-40-7	201-025-1	0.05	N.D.
216	戊二醛	111-30-8	203-856-5	0.05	N.D.
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 C14 到 C17 之间)	--	--	0.05	N.D.
218	硼酸钠*	13840-56-7	237-560-2	0.05	N.D.
219	烷基酚,碳链(C12 为主,直链或支链)主要在对位,包括其任何单个异构体或组合(PDDP)	--	--	0.05	N.D.

备注:

(1) 1 mg/kg = 1 ppm = 0.0001%; 0.1wt%=1000ppm

(2) N.D. = 未检出(<RL)

(3) * 测试结果是由选定的元素或标记物的结果并基于最坏的情况计算得出。

(4) 硼化合物的结果由ICP-OES测试的水提取的硼元素结果换算得出

备注: 测试检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。

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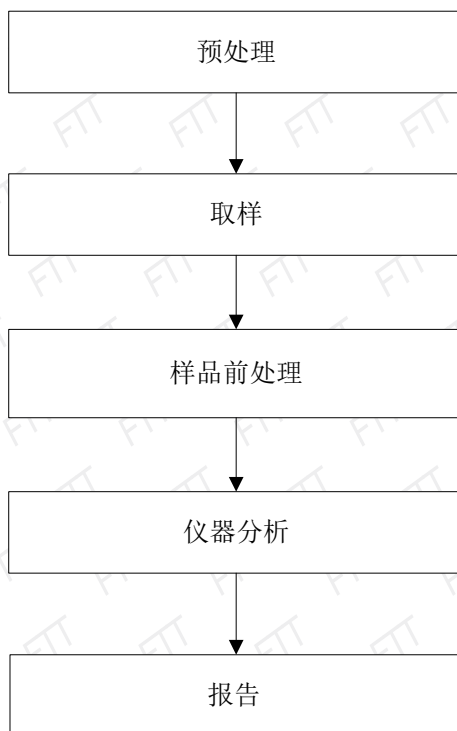
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REACH高度关注物质测试流程图:



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测试部位描述: 打包带

样品照片



注: 此报告结果仅对测试的样品负责。

***** 报告结束 *****

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