

Report No. 报告号:

178202988a 001

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Client 客户:

DAKINGS CHEMICAL (SHANDONG) CO., LTD. 德肯思化工(山东)有限公司

Contact Information 联系方式:

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Zone, China (Shandong) (A) 中国(山东)自由贸易试验区青岛片区前湾
保税港区莫斯科路44号乾通源办公楼一楼8110-2-1室(A)

Identification/

Model No(s) 样品描述/规格:

Low polycyclic aromatic hydrocarbons oil-extended styrene-butadiene
rubber 低稠环芳烃充油苯乙烯-丁二烯橡胶
SBR1723

Sample obtaining method 样品获取方式:

Sending by customer 客户寄样

Condition at delivery:
样品接收状态

Test item complete and undamaged. 测试样品完整且无损坏

Sample Receiving date 收件日期:

2024-07-17

Testing Period 测试日期:

2024-07-23 to 2024-07-29

Place of testing: 测试地点

Chemical laboratory Qingdao 青岛化学实验室

Test Specification 测试要求:

Test result 测试结果:

1. Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No 1907/2006 and its amendments
依据法规(EC) No 1907/2006及其修正案, 筛选欧洲化学品管理局(ECHA)候选清单中的高度关注物质。

SVHC concentration(s)
≤ 0.1% / SVHC含量≤
0.1%

莱茵技术-商检(青岛)有限公司

2024-07-30 Nina Yang / Senior Project Engineer
Date 日期 Name/Position 姓名/职位

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. For a test report to be used within Mainland of China which is not with CMA logo, then the reported results are used for research, teaching or internal quality control purposes and are for internal use only. This test report does not entitle to carry any safety mark on this or similar products. "Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

样品信息由客户提供。测试结果根据所做测试的种类和范围而得出。本测试报告仅对来样负责。未经本测试中心许可, 测试报告不得部分复制。在中国境内使用的检测检验报告, 如未加盖CMA章, 则报告结果作为科研、教学或内部质量控制之用, 仅供内部使用。不能根据此报告在上述产品或类似产品上使用任何安全标志。本测试报告中, 描述符合性声明所应用的判定规则发布在我司官网 <https://www.tuv.com/landingpage/en/qm-gcn/>。



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Material List 材料清单:

Item 项目: Low polycyclic aromatic hydrocarbons oil-extended styrene-butadiene rubber 低稠环芳烃充油
苯乙烯-丁二烯橡胶
SBR1723

Material No. 材料号	Material 材质	Color 颜色	Location 位置
M001	Rubber 橡胶	Yellowish brown 黄棕色	Refer to photo 参考图片

1. **Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No 1907/2006 and its amendments.** / 依据REACH法规 (EC) No 1907/2006及其修正案, 筛检欧洲化学品管理局 (ECHA) 候选清单中的高度关注物质。

Obligation of Importer is necessary if the detected SVHC concentration in article level is >0.1%:

/如果在物品中检测到SVHC高度关注物质浓度大于0.1%则进口商有义务:

To communicate information down the supply chain according to article. 33 of Regulation (EC) No 1907/2006 OR

/ 依照REACH法规第33条需要向供应链告知或者:

1. Notification to ECHA, if the quantities of SVHC in the produced/imported articles are above 1 ton in total per year per company.

/ 如果一家公司生产/进口的物品中检出的高度关注物质总量超过每年一吨, 则需要向ECHA通报。

2. Provide sufficient information to ensure safe use of the article and, as a minimum, include the name of the substance, to their customers and on request to consumers within 45 days of the receipt of this request.

/ 向其客户提供足够的信息以确保安全使用该物品, 信息至少包括物质名称, 并应消费者要求, 在收到该要求45天内提供给他们。

- Test Method**
测试方法:
- 1) SVOC: organic solvent extraction, determination by GC-MS/ECD/
半挥发性有机物: 有机溶剂萃取, 气相质谱联用仪扫描法/气相色谱电子捕获检测器测定
 - 2) VOC: organic solvent extraction, determination by GC-MS/
挥发性有机物: 有机溶剂萃取, 气相质谱联用仪扫描法测定
 - 3) VVOC: headspace-GC/MS analysis/
极易挥发性有机物: 顶空-气相质谱联用仪扫描法分析
 - 4) non-VOC: organic solvent extraction, determination by LC-MS/MS/
非挥发性有机物: 有机溶剂萃取, 液相色谱-串联质谱扫描法测定
 - 5) inorganics: acid digestion, determination by ICP-OES/
无机物: 酸消解, 电感耦合等离子体发射光谱法分析测定

Test Result:

测试结果:

Test No. 测试编号	Material No. 材料编号	Result (%) 测试结果
T001	M001	< RL

Abbreviation: < = Less than
缩略语 RL = Reporting limit
% = Percentage

< = 小于
RL = 表示报告检出限
% = 百分比

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Remark:

(*1) The reporting limit for each individual SVHC in Candidate List by ECHA:
欧洲化学品管理局候选清单中每个高度关注物质的报告检出限:

	Substances/物质	CAS No./ CAS号码	Reporting Limit/ 报告检出限
1	4,4'- Diaminodiphenylmethane (A9) / 4,4'-二氨基二苯甲烷	101-77-9	0.01%
2	Benzyl butyl phthalate (BBP) / 邻苯二甲酸丁酯苯甲酯	85-68-7	0.01%
3	Bis (2-ethylhexyl)phthalate (DEHP) / 邻苯二甲酸二 (2 - 乙基己基) 酯	117-81-7	0.01%
4	Dibutyl phthalate (DBP) / 邻苯二甲酸二丁基酯	84-74-2	0.01%
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane / 六溴环十二烷	25637-99-4 / 3194-55-6 / 134237-50-6 / 134237-51-7 / 134237-52-8	0.01%
6	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene) / 二甲苯麝香	81-15-2	0.01%
7	2,4-Dinitrotoluene (2,4-DNT) / 2,4 - 二硝基甲苯	121-14-2	0.01%
8	Diisobutyl phthalate (DIBP) / 邻苯二甲酸二异丁酯	84-69-5	0.01%
9	Tris(2-chloroethyl)phosphate (TCEP) / 三 (2 - 氯乙基) 磷酸酯	115-96-8	0.01%
10	Diarsenic pentaoxide (*2) / 五氧化二砷	1303-28-2	0.01%
11	Diarsenic trioxide (*2) / 三氧化二砷	1327-53-3	0.01%
12	Lead chromate (*2) (*3) 铬酸铅	7758-97-6	0.01%
13	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (*2) (*3) / 颜料红104	12656-85-8	0.01%
14	Lead sulfochromate yellow (C.I. Pigment Yellow 34) (*2) / 颜料黄34	1344-37-2	0.01%
15	Trichloroethylene / 三氯乙烯	79-01-6	0.01%
16	Chromium trioxide (*2) / 三氧化铬	1333-82-0	0.01%
17	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers/ 氧化铬及其聚合物形成的酸: Chromic acid, / 铬酸 Dichromic acid, / 重铬酸 Oligomers of chromic acid and dichromic acid/ 重铬酸聚合物. (*2)	7738-94-5 / 13530-68-2	0.01%
18	Sodium dichromate) (*2) (*3) / 重铬酸钠水合物	7789-12-0 / 10588-01-9	0.01%
19	Potassium dichromate (*2) (*3) / 重铬酸钾	7778-50-9	0.01%
20	Ammonium dichromate (*2) (*3) / 重铬酸铵	7789-09-5	0.01%
21	Potassium chromate (*2) (*3) / 铬酸钾	7789-00-6	0.01%
22	Sodium chromate (*2) (*3) / 铬酸钠	7775-11-3	0.01%
23	Formaldehyde, oligomeric reaction products with aniline (technical MDA) (*10) / 甲醛苯胺聚合物	25214-70-4	0.01%
24	1,2-Dichloroethane (1,2-DCE) / 1,2-二氯乙烷	107-06-2	0.01%
25	Bis(2-methoxyethyl) ether (DEGDB) / 二乙二醇二甲醚	111-96-6	0.01%
26	Arsenic acid (*2) / 砷酸	7778-39-4	0.01%
27	2,2'-dichloro-4,4'-methylenedianiline (MOCA) / 4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.01%
28	Dichromium tris(chromate) (*2) (*3) / 铬酸铬	24613-89-6	0.01%
29	Strontium chromate (*2) (*3) / 铬酸锶	7789-06-2	0.01%
30	Potassium hydroxyoctaoxodizincatedichromate (*2) (*3) / 氢氧化铬酸锌钾	11103-86-9	0.01%
31	Pentazinc chromate octahydroxide (*2) (*3) / 锌黄	49663-84-5	0.01%
32	1-bromopropane (n-propyl bromide) / 正丙基溴	106-94-5	0.01%
33	Diisopentylphthalate/ 邻苯二甲酸二异戊酯	605-50-5	0.01%
34	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) / 邻苯二甲酸二 (C6-8支链与直链) 烷基酯, 富C7	71888-89-6	0.01%

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35	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) / 1,2-苯二酸-二(C7-11支链与直链) 烷基 (醇) 酯	68515-42-4	0.01%
36	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear / 支链和直链1,2-苯二羧二戊酯	84777-06-0	0.01%
37	Bis(2-methoxyethyl) phthalate / 邻苯二甲酸二甲氧乙酯	117-82-8	0.01%
38	Dipentyl phthalate (DPP) / 邻苯二甲酸二戊酯	131-18-0	0.01%
39	N-pentyl-isopentylphthalate / 邻苯二甲酸正戊基异戊基酯	776297-69-9	0.01%
40	Anthracene oil (*6) / 蒽油	90640-80-5	0.01%(*7)
41	Pitch, coal tar, high temperature (*6) / 沥青, 煤焦油, 高温	65996-93-2	0.01%(*7)
42	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (OPEO) [covering well-defined substances and UVCB substances, polymers and homologues] / 4- (1,1,3,3-四甲基丁基) 苯酚,乙氧基-以及所有被定义的物质, 未知成分或可变成成分的物质, 聚合物和同系物	-	0.01%
43	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] / 分支或线性的壬基酚, 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线性或分支9个碳烷基链的UVCB物质	-	0.01%
44	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear / 邻苯二甲酸异己酯	68515-50-4	0.01%
45	Dihexyl phthalate / 邻苯二甲酸二己酯	84-75-3	0.01%
46	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) / 1,2-苯二甲酸二C6-10烷基酯; 1,2-苯二甲酸混合癸、己、辛二酯, 包含 ≥ 0.3% 的邻苯二甲酸二己酯(EC No. 201-559-5)	68515-51-5 / 68648-93-1	0.01%
47	Trixylyl phosphate / 磷酸三 (二甲苯) 酯	25155-23-1	0.01%
48	Sodium perborate,perboric acid, sodium salt (*2) (*5) / 水合高硼酸钠盐类	-	0.01%
49	Sodium peroxometaborate (*2) (*5) 过硼酸钠	7632-04-4	0.01%
50	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] 5-二级丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二噁烷, [2] 5-二级丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二噁烷 包含以下[1]与[2]之所有单独立体异构物与其组成。	-	0.01%
51	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) / 2-(2'-羟基-3',5'-二特戊基苯基)苯并三唑	25973-55-1	0.01%
52	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) / 2,4-二叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(UV-327)	3864-99-1	0.01%
53	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) / 2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑(UV-350)	36437-37-3	0.01%
54	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) / 2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑	3846-71-7	0.01%
55	Anthracene / 蒽	120-12-7	0.01%
56	Bis(tributyltin) oxide (TBTO) (*4) / 氧化双三丁基锡	56-35-9	0.01%
57	Triethyl arsenate (*2) / 三乙基砷酸盐	15606-95-8	0.01%
58	Lead hydrogen arsenate (*2) / 砷酸氢铅	7784-40-9	0.01%
59	Cobalt dichloride (*2) / 二氯化钴	7646-79-9	0.01%
60	Acrylamide / 丙烯酰胺	79-06-1	0.01%

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61	Anthracene oil, anthracene paste, distn. lights (*6) / 蒽油, 蒽糊, 轻油	91995-17-4	0.01% (*7)
62	Anthracene oil, anthracene paste, anthracene fraction (*6) / 蒽油, 蒽糊, 蒽馏分离液	91995-15-2	
63	Anthracene oil, anthracene-low (*6) / 蒽油, 含蒽量少	90640-82-7	
64	Anthracene oil, anthracene paste (*6) / 蒽油, 蒽糊	90640-81-6	
65	Boric acid (*2) (*5) / 硼酸	10043-35-3 / 11113-50-1	0.01%
66	Disodium tetraborate, anhydrous (*2) (*5) / 无水四硼酸二钠	1303-96-4 / 1330-43-4 / 12179-04-3	0.01%
67	Tetraboron disodium heptaoxide, hydrate (*2) (*5) / 水合七氧四硼酸二钠	12267-73-1	0.01%
68	2-Methoxyethanol / 2-乙二醇甲醚	109-86-4	0.01%
69	2-Ethoxyethanol / 2-乙氧基乙醇	110-80-5	0.01%
70	Cobalt(II) sulphate (*2) / 硫酸钴(II)	10124-43-3	0.01%
71	Cobalt(II) dinitrate (*2) / 硝酸钴(II)	10141-05-6	0.01%
72	Cobalt(II) carbonate (*2) / 碳酸钴(II)	513-79-1	0.01%
73	Cobalt(II) diacetate (*2) / 醋酸钴(II)	71-48-7	0.01%
74	Alkanes C10-C13, chloro (Short Chain Chlorinated Paraffins) (SCCP) / 短链氯化石蜡	85535-84-8	0.01%
75	2-Ethoxyethyl acetate / 2-乙氧基乙酸乙酯	111-15-9	0.01%
76	Hydrazine / 肼	302-01-2 / 7803-57-8	0.01%
77	1-Methyl-2-pyrrolidone (NMP) / 1-甲基-2-吡咯烷酮	872-50-4	0.01%
78	1,2,3-Trichloropropane / 1,2,3-三氯丙烷	96-18-4	0.01%
79	Aluminosilicate Refractory Ceramic Fibres (RCF) (*8) / 硅酸铝, 耐火陶瓷纤维	-	0.01%
80	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) (*8) / (Zr-RCF)氧化锆硅酸铝, 耐火陶瓷纤维	-	0.01%
81	2-Methoxyaniline, o-Anisidine / 邻甲氧基苯胺	90-04-0	0.01%
82	4-(1,1,3,3-tetramethylbutyl)phenol / 对特辛基苯酚	140-66-9	0.01%
83	Calcium arsenate (*2) / 砷酸钙	7778-44-1	0.01%
84	Trilead diarsenate (*2) / 砷酸铅	3687-31-8	0.01%
85	N,N-dimethylacetamide (DMAC) / 二甲基乙酰胺	127-19-5	0.01%
86	Phenolphthalein / 酚酞	77-09-8	0.01%
87	Lead dipicrate (*2) / 苦味酸铅	6477-64-1	0.01%
88	Lead diazide, Lead azide (*2) / 叠氮化铅	13424-46-9	0.01%
89	Lead styphnate (*2) / 收斂酸铅	15245-44-0	0.01%
90	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme) / 1,2-二(2-甲氧基乙氧基)乙烷 (三甘醇二甲醚)	112-49-2	0.01%
91	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME) / 1,2-二甲氧基乙烷 (乙二醇二甲醚)	110-71-4	0.01%
92	Diboron trioxide (*2) (*5) / 三氧化二硼	1303-86-2	0.01%
93	Formamide (FOR) / 甲酰胺	75-12-7	0.01%
94	Lead(II) bis(methanesulfonate) (*2) / 甲基磺酸铅	17570-76-2	0.01%

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95	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) / 异氰尿酸三缩水甘油酯	2451-62-9	0.01%
96	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) / 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	59653-74-6	
97	4,4'-bis(dimethylamino)benzophenone (Michler's ketone), MK / 4,4'-二(N,N-二甲氨基)二苯甲酮(四甲基米氏酮)	90-94-8	0.01%
98	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), RMK / N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(四乙基米氏酮)	101-61-1	0.01%
99	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*2) / 碱性蓝26	2580-56-5	0.01%
100	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9) / 结晶紫(4-(双(P-(二甲氨基)苯基)亚甲基)-2,5-环己烯基-1-基铵	548-62-9	
101	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9) / 4,4'-二 [(二甲氨基)苯基]-4-甲基基苯甲醇	561-41-1	
102	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9) / α, α -二[4-(二甲氨基)苯基]-4-苯基氨基-1-萘甲醇	6786-83-0	
103	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) 十溴联苯醚	1163-19-5	0.01%
104	Pentacosafuorotridecanoic acid / 全氟十三酸	72629-94-8	0.01%
105	Tricosafuorododecanoic acid / 全氟十二酸	307-55-1	0.01%
106	Henicosafuoroundecanoic acid / 全氟十一酸	2058-94-8	0.01%
107	Heptacosafuorotetradecanoic acid / 全氟十四酸	376-06-7	0.01%
108	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (*11) / 偶氮二甲酰胺	123-77-3	0.05%
109	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry] / 六氢苯 二甲酸酐	85-42-7 / 13149-00-3 / 14166-21-3	0.01%
110	Hexahydromethylphthalic anhydride (MHHPA) [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] / 甲基六氢苯酐	25550-51-0 / 19438-60-9 / 48122-14-1 / 57110-29-9	0.01%
111	N,N-dimethylformamide (DMF) / N,N-二甲基甲酰胺	68-12-2	0.01%
112	1,2-Diethoxyethane / 乙二醇二乙醚	629-14-1	0.01%
113	Diethyl sulphate/ 硫酸二乙酯	64-67-5	0.01%
114	Methoxyacetic acid (MAA) / 甲氧基乙酸	625-45-6	0.01%
115	Dimethyl sulphate / 硫酸二甲酯	77-78-1	0.01%
116	N-methylacetamide / N-甲基乙酰胺	79-16-3	0.01%
117	Furan / 呋喃	110-00-9	0.01%
118	Methyloxirane (Propylene oxide) / 环氧丙烷	75-56-9	0.01%

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119	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine / 3-乙基-2-甲基-2- (3-甲基丁基) -1,3-恶唑烷	143860-04-2	0.01%
120	Dibutyltin dichloride (DBTC) (*15) / 二氯二丁基锡	683-18-1	0.01%
121	Dinoseb (6-sec-butyl-2,4-dinitrophenol) / 2- (1-甲基丙基) -4,6-二硝基苯酚	88-85-7	0.01%
122	4,4'-methylenedi-o-toluidine / 4,4'-二氨基-3,3'-二甲基联苯基甲烷	838-88-0	0.01%
123	4,4'-oxydianiline and its salts / 4,4'-二氨基二苯醚	101-80-4	0.01%
124	4-Aminoazobenzene / 4-氨基偶氮苯	60-09-3	0.01%
125	4-methyl-m-phenylenediamine (toluene-2,4-diamine) / 2,4-二氨基甲苯	95-80-7	0.01%
126	6-methoxy-m-toluidine (p-cresidine) / 3-甲基-6-甲氧基苯胺	120-71-8	0.01%
127	Biphenyl-4-ylamine / 4-胺基联苯	92-67-1	0.01%
128	o-aminoazotoluene / 邻氨基偶氮甲苯	97-56-3	0.01%
129	o-Toluidine / 邻甲苯胺	95-53-4	0.01%
130	Acetic acid, lead salt, basic (*2) / 碱式醋酸铅	51404-69-4	0.01%
131	Trilead bis(carbonate) dihydroxide (*2) / 碱式碳酸铅	1319-46-6	0.01%
132	Lead oxide sulfate (*2) / 碱式硫酸铅	12036-76-9	0.01%
133	[Phthalato(2-)]dioxotrilead (*2) / (1,2-苯二羧酸根合)二氧化三铅	69011-06-9	0.01%
134	Dioxobis(stearato)trilead (*2) / 双(十八酸基)二氧化三铅	12578-12-0	0.01%
135	Fatty acids, C16-18, lead salts (*2) / C16-18-脂肪酸铅盐	91031-62-8	0.01%
136	Lead bis(tetrafluoroborate) (*2) / 四氟硼酸铅(II)	13814-96-5	0.01%
137	Lead cyanamidate (*2) / 氨基氰铅盐	20837-86-9	0.01%
138	Lead dinitrate (*2) / 硝酸铅	10099-74-8	0.01%
139	Lead monoxide (lead oxide) (*2) / 氧化铅	1317-36-8	0.01%
140	Orange lead (lead tetroxide) (*2) / 四氧化铅	1314-41-6	0.01%
141	Lead titanium trioxide (*2) / 钛酸铅	12060-00-3	0.01%
142	Lead titanium zirconium oxide (*2) / 钛酸铅锆	12626-81-2	0.01%
143	Pyrochlore, antimony lead yellow (*2) 颜料黄41	8012-00-8	0.01%
144	Pentalead tetraoxide sulphate (*2) / 氧化铅与硫酸铅的复合物	12065-90-6	0.01%
145	Silicic acid (H ₂ SiO ₅), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD), the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] (*2) / 含铅的矽酸钡	68784-75-8	0.01%
146	Silicic acid, lead salt (*2) / 矽酸铅	11120-22-2	0.01%
147	Sulfurous acid, lead salt, dibasic (*2) / 亚硫酸铅 (II)	62229-08-7	0.01%
148	Tetraethyllead (*2) / 四乙基铅	78-00-2	0.01%
149	Tetralead trioxide sulphate (*2) / 三碱式硫酸铅	12202-17-4	0.01%
150	Trilead dioxide phosphonate (*2) / 磷酸氧化铅	12141-20-7	0.01%
151	Ammonium pentadecafluorooctanoate (APFO) (*12) / 全氟辛酸铵	3825-26-1	0.01%
152	Pentadecafluorooctanoic acid (PFOA) / 全氟辛酸	335-67-1	0.01%
153	Cadmium (*2) / 镉	7440-43-9	0.01%
154	Cadmium oxide (*2) / 氧化镉	1306-19-0	0.01%

155	4-Nonylphenol, branched and linear, ethoxylated (NPEO) [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] / 分支或线性的乙氧基壬基酚 [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线性或分支9个碳烷基链的UVCB物质]	-	0.01%
156	Imidazolidine-2-thione; (2-imidazoline-2-thiol) / 伸乙硫脲(咪唑啉-2-硫酮)	96-45-7	0.01%
157	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) / 直接红28	573-58-0	0.01%
158	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) / 直接黑38	1937-37-7	0.01%
159	Lead di(acetate) (*2) / 醋酸铅	301-04-2	0.01%
160	Cadmium sulphide (*2) / 硫化镉	1306-23-6	0.01%
161	Cadmium chloride (*2) / 氯化镉	10108-64-2	0.01%
162	Cadmium fluoride (*2) / 氟化镉	7790-79-6	0.01%
163	Cadmium sulphate (*2) / 硫酸镉	10124-36-4 / 31119-53-6	0.01%
164	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (*13) / 二正辛基-双(巯乙酸2-乙基己酯) 锡 (DOTE)	15571-58-1	0.01%
165	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) (*14) / 二正辛基-双(巯乙酸2-乙基己酯) 锡 与 甲基锡三(巯乙酸异辛酯)的反应物 (DOTE 和MOTE反应物)	-	0.01%
166	1,3-propanesultone (1,3-PS) / 1,3-丙烷磺酸内酯	1120-71-4	0.01%
167	Nitrobenzene / 硝基苯	98-95-3	0.01%
168	Perfluorononan-1-ic-acid and its sodium and ammonium salts / 全氟壬酸及其钠和铵盐	375-95-1 / 21049-39-8 / 4149-60-4 /	0.01%
169	Benzo[def]chrysene (Benzo[a]pyrene) / 苯并[def]蒽 (苯并[a]芘)	50-32-8	0.01%
170	4,4'-isopropylidenediphenol (bisphenol A) (BPA) / 双酚A	80-05-7	0.01%
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts // 全氟癸酸 (PFDA) 及其钠盐和铵盐	335-76-2 / 3830-45-3 / 3108-42-7	0.01%
172	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] / 支链与直链的4-庚基酚	-	0.01%
173	p-(1,1-dimethylpropyl)phenol 4-叔戊基苯酚	80-46-6	0.01%
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS) / 全氟己基磺酸及其盐类	-	0.01%
175	Chrysene / 屈	218-01-9	0.01%
176	Benzo[a]anthracene / 苯并[a]蒽	56-55-3	0.01%
177	Cadmium nitrate(*2) / 硝酸镉	10325-94-7	0.01%
178	Cadmium hydroxide(*2) / 氢氧化镉	21041-95-2	0.01%
179	Cadmium carbonate(*2) / 碳酸镉	513-78-0	0.01%
180	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo [12.2.1.16.9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”™) [covering any of its individual anti- and syn-isomers or any combination thereof] / 德克隆[包括所有反式和顺式异构体及其组合]	-	0.01%

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181	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] / 1,3,4-噻二唑烷-2,5-二硫酮, 甲醛和4-庚基苯酚的支链和直链的反应物(4-庚基苯酚, 支链和直链含量 $\geq 0.1\%$ w/w)	-	0.01%
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA) / 1,2,4-苯三酸酐(偏苯三酸酐) (TMA)	552-30-7	0.01%
183	Dicyclohexyl phthalate (DCHP) / 邻苯二甲酸二环己酯(DCHP)	84-61-7	0.01%
184	Terphenyl, hydrogenated / 氢化三联苯	61788-32-7	0.01%
185	Octamethylcyclotetrasiloxane (D4) / 八甲基环四硅氧烷(D4)	556-67-2	0.01%
186	Decamethylcyclopentasiloxane (D5) / 十甲基环五硅氧烷(D5)	541-02-6	0.01%
187	Dodecamethylcyclohexasiloxane (D6) / 十二甲基环六硅氧烷(D6)	540-97-6	0.01%
188	Ethylenediamine (EDA) / 乙二胺 (EDA)	107-15-3	0.01%
189	Lead / 铅(*2)	7439-92-1	0.01%
190	Disodium octaborate(*2) (*5) / 氧化硼钠	12008-41-2	0.01%
191	Benzo[ghi]perylene / 苯并(g,h,i)芘	191-24-2	0.01%
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane / 2,2-二(4-羟基苯基)-4-甲基戊烷	6807-17-6	0.01%
193	Benzo[k]fluoranthene / 苯并(k)荧蒽	207-08-9	0.01%
194	Fluoranthene / 荧蒽	206-44-0	0.01%
195	Phenanthrene / 菲	85-01-8	0.01%
196	Pyrene / 芘	129-00-0	0.01%
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one 1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚烷-2-酮	15087-24-8	0.01%
198	2-methoxyethyl acetate / 2-甲氧基乙酰乙酸酯	110-49-6	0.01%
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP))/ 三(4-壬基苯基, 支链和直链)亚磷酸酯 (TNPP), 含有 $\geq 0.1\%$ w/w 的 4-壬基苯基, 支链和直链 (4-NP)	-	0.01%
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) / 2,3,3,3-四氟-2-(七氟丙氧基)丙酸, 及其盐类和酰基卤化物 (包括它们各自的同分异构体及其组合)	-	0.01%
201	4-tert-butylphenol (PTBP) / 4-叔丁基苯酚	98-54-4	0.01%
202	Diisohexyl phthalate (DiHexP) / 邻苯二甲酸二异己酯	71850-09-4	0.01%
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone / 2-苄基-2-二甲氨基-1-(4-吗啉基)丁酮	119313-12-1	0.01%
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one / 2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮	71868-10-5	0.01%
205	Perfluorobutane sulfonic acid (PFBS) and its salts / 全氟丁烷磺酸(PFBS)及其盐	-	0.01%
206	1-vinylimidazole / 1-乙烯基咪唑	1072-63-5	0.01%
207	2-methylimidazole / 2-甲基咪唑	693-98-1	0.01%
208	Butyl 4-hydroxybenzoate / 对羟基苯甲酸丁酯	94-26-8	0.01%
209	Dibutylbis(pentane-2,4-dionato-O,O')tin(*15) / 双(乙酰丙酮酸)二丁基锡	22673-19-4	0.01%
210	Bis(2-(2-methoxyethoxy)ethyl)ether / 双(2-(2-甲氧基乙氧基)四乙二醇二甲醚)	143-24-8	0.01%
211	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 (*13) / 二月桂酸二辛酯, 锡烷, 二辛基锡, 二辛基锡, 双(椰油酰氧基)衍生物和任何其他锡, 二辛基锡, 双(脂肪酰氧基)衍生物。其中C12是脂肪酰氧基部分的主要碳数	-	0.01%

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212	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers / 2-(4-叔丁基苄基)丙醛及其立体异构体	-	0.01%
213	Orthoboric acid, sodium salt (*2) (*5) / 原硼酸钠盐	13840-56-7	0.01%
214	2,2-bis(bromomethyl)propane 1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)/ 2,2-双(溴甲基)丙烷 1,3-二醇 (BMP); 2,2-二甲基丙-1-醇, 三溴衍生物/3-溴-2,2-双(溴甲基)-1-丙醇(TBNPA); 2,3-二溴-1-丙醇 (2,3-DBPA)	3296-90-0 / 36483-57-5 / 1522-92-5 / 96-13-9	0.01%
215	Glutaral / 戊二醛	111-30-8	0.01%
216	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] / 中链氯化石蜡(MCCP) (UVCB物质由大于或等于80%的碳链长度在C14至C17范围内的直链氯代烷烃组成)	-	0.01%
217	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) / 苯酚, 烷基化产物(主要在对位) 具有来自低聚的富含C12的支链 烷基链, 涵盖单个异构体和/ 或它们的组合(PDDP)	-	0.01%
218	1,4-dioxane / 1,4-二恶烷	123-91-1	0.01%
219	4,4'-(1-methylpropylidene)bisphenol / 4,4'-(1-甲基亚丙基) 双酚	77-40-7	0.01%
220	tris(2-methoxyethoxy)vinylsilane/乙烯基-三(2-甲氧基乙氧基)硅烷	1067-53-4	0.01%
221	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/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	255881-94-8	0.01%
222	6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol (DBMC)/2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚)	119-47-1	0.01%
223	(±)-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) / (±)-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) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one / (3E)-1,7,7-三甲基-3-(4-甲基苯亚甲基)双环[2.2.1]庚-2-酮 (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one / (1R,3E,4S)-1,7,7-三甲基-3-(4-甲基苯亚甲基)双环[2.2.1]庚-2-酮 (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one / (1S,3Z,4R)-1,7,7-三甲基-3-(4-甲基苯亚甲基)双环[2.2.1]庚-2-酮 (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one / (±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]双环[2.2.1]庚-2-酮 (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one / (1R,4S)-1,7,7-三甲基-3-(4-甲基苯亚甲基)双环[2.2.1]庚-2-酮 (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one / (1R,4S)-1,7,7-三甲基-3-(4-甲基苯亚甲基)双环[2.2.1]庚-2-酮 (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one / (1S,3E,4R)-1,7,7-三甲基-3-(4-甲基苯亚甲基)双环[2.2.1]庚-2-酮 (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one / (1R,3Z,4S)-1,7,7-三甲基-3-(4-甲基苯亚甲基)双环[2.2.1]庚-2-酮	- 1782069-81-1 95342-41-9 852541-25-4 36861-47-9 741687-98-9 852541-30-1 852541-21-0	0.01%
224	N-(hydroxymethyl)acrylamide/ N-(羟甲基)丙烯酰胺	924-42-5	0.01%
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] 1,2-二(2,4,6-三溴苯氧基)乙烷	37853-59-1	0.01%
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA) 四溴双酚 A	79-94-7	0.01%
227	4,4'-sulphonyldiphenol 双酚 S	80-09-1	0.01%
228	Barium diboron tetraoxide(*2) (*5) 偏硼酸钡	13701-59-2	0.01%
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof 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	-	0.01%
230	Isobutyl 4-hydroxybenzoate 4-羟基苯甲酸 2-甲基丙酯	4247-02-3	0.01%

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231	Melamine 三聚氰胺	108-78-1	0.01%
232	Perfluoroheptanoic acid and its salts 全氟庚酸及其盐	-	0.01%
233	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 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-4-(七氟丙基)吗啉的反应物料	-	0.01%
234	bis(4-chlorophenyl) sulphone 4,4'-二氯二苯砜	80-07-9	0.01%
235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) (2,4,6-三甲基苯甲酰基)二苯基氧化膦	75980-60-8	0.01%
236	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol Phenol, methylstyrenated EC / List no: 270-966-8 CAS no: 68512-30-1 2-苯丙烯与苯酚的低聚和烷基化反应产物	-	0.01%
237	Bumetrizole 2-(5-氯-2H-苯三唑-2-基)-6-(1,1-二甲基乙基)-4-甲基苯酚(UV-326)	3896-11-5	0.01%
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one 2-(二甲基氨基)-2-[(4-甲基苯基)甲基]-1-[4-(吗啉-4-基)苯基]丁-1-酮	119344-86-4	0.01%
239	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329) [2-羟基-5-(1,1,3,3-四甲基)苯基]苯并三唑(UV-329)	3147-75-9	0.01%
240	2,4,6-tri-tert-butylphenol 2,4,6-三叔丁基苯酚	732-26-3	0.01%
241	Bis(α,α-dimethylbenzyl) peroxide 过氧化二异丙苯	80-43-3	0.01%

Remarks 备注

- (*2) The substances are tested and calculated in terms of its respective elements and to the worst-case scenario. The report states the theoretical value of SVHC substances without consideration of the actual occurrence in the article.
这些物质按照其各自元素测定并按照最坏的情况进行计算。这些对应的元素可能来自SVHCs以外的化合物。
- (*3) The substances are tested and calculated in terms of Cr (VI).
测试其代表性元素六价铬。
- (*4) The substance is tested and calculated in terms of Tributyl tin.
测试三丁基锡并以此做计算。
- (*5) The substances are tested and calculated in terms of boron element and the boron element may come from the compounds other than SVHCs. 这些物质通过硼元素来测定并计算，这些硼元素可能来自SVHCs以外的化合物。
- (*6) The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents.
该物质为未知或多种混合物，交错反应物质或生物材料，以其主要组成物质分析之。
- (*7) Individual concentrations to the constituent of UVCB with an amount of < 0.01% were not considered by the calculation of the sum.
个别UVCB物质若含量小于0.01%，则不列入总和计算。
- (*8) The test results are based on microscopic and chemical evaluation.
测试结果依据显微镜和化学评估。
- (*9) The substances are quantified in terms of Michler's ketone and Michler's base by LC-MS, as Michler's ketone or Michler's base was found exceeds 0.01%.
当米希勒酮或米希勒碱含量超过0.01%时，用LC-MS以米希勒酮和米希勒碱做确认分析。

- (*10) The content oligomer is determined by Py-GC/MS.
低聚合物的含量以Py-GC/MS分析
- (*11) The content of diazene-1,2-dicarboxamide is analyzed in terms of its breakdown product.
含量以其分裂物质分析
- (*12) The substance is tested in terms of pentadecafluorooctanoate.
测试其代表性物质十五氟辛酸盐。
- (*13) The substance is tested and calculated in terms of Dioctyl tin.
测试二辛基锡并以之做计算。
- (*14) The substance is tested and calculated in terms of Monoctyl tin and Dioctyl tin.
测试单辛基锡和二辛基锡并以之做计算
- (*15) The substance is tested and calculated in terms of Dibutyl tin
测试二丁基锡并以之做计算。
- (*16) The tested material(s) was screened only for selected SVHCs. Selection of tests refers to the material type and application and the possibility of contamination during production & material specific contamination of the product.
测试材料选择性筛检高度关注物质。选择的测试参考材料种类，应用，生产过程中污染的可能性和产品材料的特性。
- (*17) The other SVHCs which are not mentioned in test result were either not subject to testing according to remark *16 or less than report limit.
测试结果中没有提及的其他高度关注物质，依据备注16无需测试或低于报告检出限。
- (*18) The theoretical content of SVHC substances is calculated in terms of its respective elements. This material may contains the mentioned SVHCs, it is suggested to check the respective recipe if the theoretical content of the respective substance > 0.1% in each article. 这些物质通过硼元素来测定并计算，这些硼元素可能来自SVHCs以外的化合物。

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Sample Photo 样品照片



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