



CONSUMER PRODUCTS SERVICES DIVISION

SHENZHEN LEILONG PLASTIC CO., LTD

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Date Received: AUG 07, 2019

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SHENZHEN LEILONG PLASTIC CO., LTD
深圳市雷龙塑胶有限公司
NO. 12 HONGLING INDUSTRIAL PARK, SHIBI VILLAGE,
LIULIAN COMMUNITY, PINGDI LONGGANG DISTRICT,
SHENZHEN CITY GUANGDONG
广东省深圳市龙岗区坪地六联社区石碧村红岭工业园 12 号 B 座

Sample Description: 720 DOUBLE-FACED FRONT WHEEL (IA-012 FIGURE)/ Z WHEEL/ V WHEEL/ U WHEEL/ F WHEEL
720 双面前轮(IA-012 花纹)/ Z 轮/ V 轮/ U 轮/ F 轮

Vendor:	LEILONG	Sample Size:	5 PCS
Manufacturer:	SHENZHEN LEILONG PLASTIC 深圳雷龙塑胶	Style No(s):	N/A
Buyer:	N/A	SKN/SKU No.:	N/A
Labeled Age Grade:	N/A	PO No.:	N/A
Appropriate Age Grade:	N/A	Ref #:	N/A
Client Specified Age Grade:	N/A	Assortment No.:	N/A
Grade:			
Tested Age Grade:	N/A	Country of Destination:	N/A
Country of Origin:	N/A	Texture:	PP+ Rubber /PP+EVA/PP+PU/PP+ Rubber hollow tyre /PC+ER tyre PP+橡胶 /PP+EVA/PP+PU/PP+橡 胶空心胎/PC+ER 胎

UPC Code: N/A

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The chemical content requirements of the Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH. *

根据客户要求，基于欧洲化学品管理署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 201 种高关注物质进行筛分测试。

- The cadmium content requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 23 (amended up to EU No. 2016/217).*

依据客户要求，参考欧盟(EC) No 1907/2006 号(REACH)附件 XVII 第 23 项，测定委托样品中镉的含量。



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EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The DINP、DNOP、DIDP、DEHP、BBP、DBP、DIBP、DHNUP、DIHP、DMEP、nPIPP、DIPP、1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear、DPENP、DHEXP、DHxP、DC6-10P、DCHP、DPHP、DEP、DMP、DIHxP、DIOP、DPrP and DNP content requirement of client's specification.*

依据客户要求，测定委托样品中 DINP、DNOP、DIDP、DEHP、BBP、DBP、DIBP、DHNUP、DIHP、DMEP、nPiPP、DiPP、邻苯二甲酸戊基异戊酯;支链和直链 1,2-苯二羧二戊酯、DPENP、DHEXP、DHxP、DC6-10P、DCHP、DPHP、DEP、DMP、DIHxP、DIOP、DPrP 和 DNP 的含量。

- The determine the Organic tin content requirement of client's specification.*

依据客户要求，测定委托样品中有机锡化合物的含量。

- The Nonylphenol (NP), Octylphenol(OP), Nonylphenol Ethoxylates (NPEO) and Octylphenol Ethoxylate (OPEO) content requirement of client's specification.*

依据客户要求，测定委托样品中壬基苯酚(NP)、辛基苯酚(OP)、壬基酚聚氧乙烯醚(NPEO)和辛基酚聚氧乙烯醚(OPEO)的含量。

- The Polycyclic Aromatic Hydrocarbons (PAHs) Content requirement of client's specification.*

依据客户要求，测定委托样品中多环芳烃的含量。

- The migration of certain elements requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013+A1:2014.*

依据客户要求，参考欧洲玩具安全标准 EN71-3:2013+A3:2018，测定委托样品中特定元素的迁移量。

- The total lead content in consumer articles requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 63, Point 7.*

依据客户要求，参考欧盟(EC) No 1907/2006 号 REACH 法规附件 XVII 第 63 项，测定委托样品中总铅的含量。

BVCPS (SHANGHAI)-QINGDAO BRANCH CONTACT INFORMATION FOR THIS REPORT

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RESULTS:

Specimen Description:

样品描述:

No 序号.	Test part(s) name 测试部件名称
1	Black plastic, wheel hub 黑色塑胶, 轮毂
2	Bright black plastic, wheel hub 亮黑色塑胶, 轮毂
3	Grey plastic, wheel hub 灰色塑胶, 轮毂
4	Black rubble, wheel 黑色橡胶, 轮胎
5	Black soft plastic, wheel 黑色软塑胶, 轮胎
6	Black EVA, wheel 黑色 EVA, 轮胎
7	Black foam, wheel 黑色泡沫, 轮胎
8	Transparent plastic, wheel hub 透明塑胶, 轮毂

Test Method 测试方法:

GST In-House method, Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC, GC-FID, HS-GC-FID and LC-MS and Colorimetric Method.

GST 实验室内部方法, 用 ICP-OES, GC-MS, UV-VIS, HPLC, GC-FID, HS-GC-FID 和 LC-MS 分析和比色测试法。

Test Result: (Substances in the Candidate List of SVHC)

测试结果: (高度关注物质候选清单)

Substances Name 物质名称	CAS No.	Result(s) (%) 结果(%)	RL(%)
		1~8	
All tested SVHC in candidate list 高关注物质候选清单全部物质	-	N.D.	-



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RESULTS:

结果：

(1) Full list of tested SVHC 高度关注物质完整清单

The first fifteen Substances of Very High Concern (Released in Oct 28, 2008)

SVHC 第一批清单 (15 项) 于 2008 年 10 月 28 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
1	4,4'-Diaminodiphenylmethane(MDA) 4,4' -二氨基二苯甲烷	101-77-9	0.01
2	5-tert-butyl-2,4,6-trinitro-m-xylene 二甲苯麝香	81-15-2	0.01
3	Alkanes,C10-13,chloro (Short Chain Chlorinated Paraffins) C10-13 短链氯化石蜡	85535-84-8	0.01
4	Anthracene 蒽	120-12-7	0.01
5	Benzyl butyl phthalate (BBP) 邻苯二甲酸丁苄酯(BBP)	85-68-7	0.01
6	Bis(2-ethyl(hexyl)phthalate) (DEHP) 邻苯二甲酸二(2-乙基己醇)酯(DEHP)	117-81-7	0.01
7	Bis(tributyltin) oxide (TBTO) 三丁基氧化锡(TBTO)	56-35-9	0.01
8	Cobalt dichloride ** 二氯化钴**	7646-79-9	0.01
9	Diarsenic pentaoxide ** 五氧化二砷**	1303-28-2	0.01
10	Diarsenic trioxide ** 三氧化二砷**	1327-53-3	0.01
11	Dibutyl phthalate (DBP) 邻苯二甲酸二正丁酯(DBP)	84-74-2	0.01
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified 六溴环十二烷及其非对映异构体(HBCDD)	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	0.01
13	Lead hydrogen arsenate ** 砷酸氢铅**	7784-40-9	0.01
14	Sodium dichromate** 二水(合)重铬酸钠**	7789-12-0 10588-01-9	0.01
15	Triethyl arsenate** 三乙基砷酸酯**	15606-95-8	0.01



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The second thirteen Substances of Very High Concern (Released in Jan 13, 2010 and Mar 30, 2010)

SVHC 第二批清单 (13 项) 2010 年 1 月 13 日和 2010 年 3 月 30 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
16	2,4-Dinitrotoluene 2,4-二硝基甲苯	121-14-2	0.01
17	Acrylamide 丙烯酰胺	79-06-1	0.01
18	Anthracene oil 蒽油	90640-80-5	0.01
19	Anthracene oil, anthracene paste 蒽油, 蒽糊	90640-81-6	0.01
20	Anthracene oil, anthracene paste, anthracene fraction 蒽油、蒽糊, 蒽馏分	91995-15-2	0.01
21	Anthracene oil, anthracene paste, distn. Lights 蒽油, 蒽糊, 轻油	91995-17-4	0.01
22	Anthracene oil, anthracene-low 蒽油, 含蒽量少	90640-82-7	0.01
23	Diisobutyl phthalate (DIBP) 邻苯二甲酸二异丁酯(DIBP)	84-69-5	0.01
24	Lead chromate ** 铬酸铅**	7758-97-6	0.01
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ** 钼铬红 (C.I.颜料红 104) **	12656-85-8	0.01
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34) ** 铅铬黄 (C.I.颜料黄 34) **	1344-37-2	0.01
27	Pitch, coal tar, high temp 高温煤焦油沥青	65996-93-2	0.01
28	Tris(2-chloroethyl) phosphate 磷酸三(2-氯乙基)酯	115-96-8	0.01



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The third eight Substances of Very High Concern (Released in Jun 18, 2010)

SVHC 第三批清单 (8 项) 于 2010 年 6 月 18 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
29	Ammonium dichromate ** 重铬酸铵**	7789-09-5	0.01
30	Boric acid ** 硼酸**	10043-35-3 11113-50-1	0.01
31	Disodium tetraborate, anhydrous ** 无水四硼酸钠**	1330-43-4 12179-04-3 1303-96-4	0.01
32	Potassium chromate ** 铬酸钾**	7789-00-6	0.01
33	Potassium Dichromate ** 重铬酸钾**	7778-50-9	0.01
34	Sodium chromate ** 铬酸钠**	7775-11-3	0.01
35	Tetraborate disodium heptaoxide, hydrous ** 七水合四硼酸钠**	12267-73-1	0.01
36	Trichloroethylene 三氯乙烯	79-01-6	0.01

The fourth eight Substances of Very High Concern (Released in Dec 15, 2010)

SVHC 第四批清单 (8 项) 于 2010 年 12 月 15 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
37	2-Ethoxyethanol 乙二醇单乙醚	110-80-5	0.01
38	2-Methoxyethanol 乙二醇单甲醚	109-86-4	0.01
39	Chromic acid** Dichromic acid** Oligomers of chromic acid and dichromic acid** 铬酸，重铬酸及其低聚铬酸**	7738-94-5 13530-68-2 --	0.01
40	Chromium trioxide** 三氧化铬**	1333-82-0	0.01
41	Cobalt(II) carbonate ** 碳酸钴 (II) **	513-79-1	0.01
42	Cobalt(II) diacetate ** 乙酸钴**	71-48-7	0.01
43	Cobalt(II) dinitrate ** 硝酸钴 (II) **	10141-05-6	0.01
44	Cobalt(II) sulphate ** 硫酸钴 (II) **	10124-43-3	0.01



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The fifth seven Substances of Very High Concern (Released in Jun 20, 2011)

SVHC 第五批清单 (7 项) 于 2011 年 6 月 20 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
45	1,2,3-Trichloropropane 1,2,3-三氯丙烷	96-18-4	0.01
46	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 链(DIHP)	71888-89-6	0.01
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)* 邻苯二甲酸二(C7-11 支链与直链)烷基酯(DHNUP)*	68515-42-4	0.01
48	1-methyl-2-pyrrolidone 1-甲基-2-吡咯烷酮	872-50-4	0.01
49	2-Ethoxyethyl acetate 乙二醇乙醚醋酸酯	111-15-9	0.01
50	Hydrazine 肼	7803-57-8; 302-01-2	0.01
51	Strontium chromate** 铬酸锶**	7789-06-2	0.01

The sixth twenty Substances of Very High Concern (Released in Dec 19, 2011)

SVHC 第六批清单 (20 项) 于 2011 年 12 月 19 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
52	1,2-Dichloroethane 1,2-二氯乙烷	107-06-2	0.01
53	2,2'-dichloro-4,4'-methylenedianiline (MOCA) 4,4'-二氨基-3,3'-二氯二苯甲烷(MOCA)	101-14-4	0.01
54	2-Methoxyaniline; o-Anisidine 邻甲氧基苯胺	90-04-0	0.01
55	4-(1,1,3,3-tetramethylbutyl) phenol,(4-tert-Octylphenol) 对特辛基苯酚	140-66-9	0.01
56	Aluminosilicate Refractory Ceramic Fibres(RCF) ** 硅酸铝耐火陶瓷纤维**	--	0.01
57	Arsenic acid** 砷酸、原砷酸**	7778-39-4	0.01
58	Bis(2-methoxyethyl) ether 二乙二醇二甲醚	111-96-6	0.01
59	Bis(2-methoxyethyl) phthalate (DMEP) 邻苯二甲酸二甲氧乙酯	117-82-8	0.01
60	Calcium arsenate** 砷酸钙**	7778-44-1	0.01
61	Dichromium tris(chromate) ** 铬酸铬**	24613-89-6	0.01



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No. 序号	Substances 物质名称	CAS No.	RL(%)
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA) 甲醛与苯胺的聚合物	25214-70-4	0.01
63	Lead diazide Lead azide** 迭氮化铅**	13424-46-9	0.01
64	Lead dipicrate** 苦味酸铅**	6477-64-1	0.01
65	Lead styphnate** 2,4,6-三硝基苯二酚铅**	15245-44-0	0.01
66	N,N-dimethylacetamide (DMAC) N,N-二甲基乙酰胺(DMAC)	127-19-5	0.01
67	Pentazinc chromate octahydroxide** 锌黄**	49663-84-5	0.01
68	Phenolphthalein 酚酞	77-09-8	0.01
69	Potassium hydroxyoctaoxodizinc dication dichromate ** 氢氧化铬酸锌钾**	11103-86-9	0.01
70	Trilead diarsenate** 砷酸铅**	3687-31-8	0.01
71	Zirconia Aluminosilicate Refractory Ceramic Fibres(Zr-RCF) ** 氧化锆硅酸铝耐火陶瓷纤维**	--	0.01

The seventh thirteen Substances of Very High Concern (Released in Jun 18, 2012)

SVHC 第七批清单 (13 项) 于 2012 年 6 月 18 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino) phenyl]methylene] cyclohexa-2, 5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) 碱性蓝 26	2580-56-5	0.01
73	[4-[4,4'-bis (dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) 结晶紫	548-62-9	0.01
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 三甘醇二甲醚	112-49-2	0.01
75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) 1,2-二甲氧基乙烷	110-71-4	0.01
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone) 4,4'-四甲基二氮二苯酮	90-94-8	0.01
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol α,α -二[(二甲氨基)苯基]-4-甲氨基苯甲醇	561-41-1	0.01
78	Diboron trioxide** 三氧化二硼**	1303-86-2	0.01
79	Formamide 甲酰胺	75-12-7	0.01



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No. 序号	Substances 物质名称	CAS No.	RL(%)
80	Lead (II) bis (methanesulfonate)** 甲磺酸铅(II)溶液**	17570-76-2	0.01
81	N,N,N',N'-tetramethyl -4,4'- methylenedianiline (Michler'sbase) 4,4'-亚甲基双(N, N-二甲基苯胺)	101-61-1	0.01
82	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) 异氰尿酸三缩水甘油酯	2451-62-9	0.01
83	α , α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1 -methanol (C.I. Solvent Blue 4) 溶剂蓝 4	6786-83-0	0.01
84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3- epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione) 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	0.01

The eighth fifty-four Substances of Very High Concern (Released in Dec 19, 2012)

SVHC 第八批清单 (54 项) 于 2012 年 12 月 19 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
85	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)** 二盐基邻苯二甲酸铅**	69011-06-9	0.01
86	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
87	1,2-Diethoxyethane 乙二醇二乙醚	629-14-1	0.01
88	1-Bromopropane; n-propyl bromide 溴代正丙烷	106-94-5	0.01
89	3-Ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine 3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷	143860-04-2	0.01
90	4-(1,1,3,3-tetramethylbutyl) phenol, Ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues 对特辛基苯酚乙氧基醚 (包括界定明确的物质以及 UVCB 物质、聚合物和同系物)	--	0.01
91	4,4'-Methylenedi-o-toluidine 4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.01
92	4,4'-Oxydianiline and its salts 4,4'-二氨基二苯醚	101-80-4	0.01
93	4-Aminoazobenzene; 4-Phenylazoaniline 4-氨基偶氮苯	60-09-3	0.01
94	4-Methyl-m-phenylenediamine (2,4- toluene-diamine) 2,4-二氨基甲苯	95-80-7	0.01



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No. 序号	Substances 物质名称	CAS No.	RL(%)
95	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 4-壬基苯酚，支链和直链（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）	--	0.01
96	6-Methoxy-m-toluidine (p- cresidine) 2-甲氧基-5-甲基苯胺	120-71-8	0.01
97	Acetic acid, lead salt, basic** 碱式乙酸铅**	51404-69-4	0.01
98	Biphenyl-4-ylamine 4-氨基联苯	92-67-1	0.01
99	Decabromodiphenyl ether (DecaBDE) 十溴联苯醚	1163-19-5	0.01
100	Cyclohexane-1,2-dicarboxylic Anhydride (Hexahydrophthalic anhydride - HHPA) 六氢邻苯二甲酸酐、c 六氢-1,3-异苯并呋喃二酮、反-1,2-环己烷二羧酸酐	85-42-7, 13149-00-3, 14166-21-3	0.01
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) 偶氮二甲酰胺	123-77-3	0.01
102	Dibutyltin dichloride (DBTC) 二丁基二氯化锡(DBTC)	683-18-1	0.01
103	Diethyl sulphate 硫酸二乙酯	64-67-5	0.01
104	Diisopentylphthalate (DIPP) 邻苯二甲酸二异戊酯 (DIPP)	605-50-5	0.01
105	Dimethyl sulphate 硫酸二甲酯	77-78-1	0.01
106	Dinoseb 地乐酚	88-85-7	0.01
107	Dioxobis(stearato)trilead** 双（十八酸基）二氧代三铅**	12578-12-0	0.01
108	Fatty acids, C16-18, lead salts** C16-18 脂肪酸铅盐**	91031-62-8	0.01
109	Furan 呋喃	110-00-9	0.01
110	Henicosafuoroundecanoic acid 全氟十一烷酸	2058-94-8	0.01
111	Heptacosafuorotetradecanoic acid 全氟代十四酸	376-06-7	0.01
112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride 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	0.01



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No. 序号	Substances 物质名称	CAS No.	RL(%)
113	Lead bis(tetrafluoroborate)** 氟硼酸铅**	13814-96-5	0.01
114	Lead cyanamidate** 氨基氰铅盐**	20837-86-9	0.01
115	Lead dinitrate** 硝酸铅**	10099-74-8	0.01
116	Lead oxide (Lead monoxide)** 氧化铅**	1317-36-8	0.01
117	Lead oxide sulfate (basic lead sulfate)** 碱式硫酸铅**	12036-76-9	0.01
118	Lead tetroxide (orange lead)** 四氧化三铅**	1314-41-6	0.01
119	Lead titanium trioxide** 钛酸铅**	12060-00-3	0.01
120	Lead Titanium Zirconium Oxide** 钛酸铅锆**	12626-81-2	0.01
121	Methoxy acetic acid 甲氧基乙酸	625-45-6	0.01
122	Propylene oxide; 1,2-epoxypropane; methyloxirane 环氧丙烷	75-56-9	0.01
123	N,N-dimethylformamide; dimethylformamide N,N-二甲基甲酰胺	68-12-2	0.01
124	N-methylacetamide N-甲基乙酰胺	79-16-3	0.01
125	N-pentyl-isopentylphthalate 邻苯二甲酸正戊基异戊基酯	776297-69-9	0.01
126	o-Aminoazotoluene 邻氨基偶氮甲苯	97-56-3	0.01
127	o-Toluidine; 2- Aminotoluene 邻甲基苯胺	95-53-4	0.01
128	Pentacosfluorotridecanoic acid 全氟十三酸	72629-94-8	0.01
129	Pentalead tetraoxide sulphate** 氧化铅与硫酸铅的复合物**	12065-90-6	0.01
130	Pyrochlore, antimony lead yellow** 颜料黄 41**	8012-00-8	0.01
131	Silicic acid, barium salt, lead-doped** 掺杂铅的硅酸钡**	68784-75-8	0.01
132	Silicic acid, lead salt** 硅酸铅**	11120-22-2	0.01
133	Sulfurous acid, lead salt, dibasic** 氧化铅与硫化铅的复合物**	62229-08-7	0.01
134	Tetraethyllead** 四乙基铅**	78-00-2	0.01
135	Tetralead trioxide sulphate** 三碱式硫酸铅**	12202-17-4	0.01
136	Tricosfluorododecanoic acid 全氟十二烷酸	307-55-1	0.01
137	Basic lead carbonate(trilead bis(carbonate)dihydroxide) ** 碱式碳酸铅**	1319-46-6	0.01
138	Trilead dioxide phosphonate** 磷酸氧化铅**	12141-20-7	0.01



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RESULTS:

The ninth six Substances of Very High Concern (Released in Jun 20, 2013)

SVHC 第九批清单 (6 项) 于 2013 年 6 月 20 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
139	4-Nonylphenol (branched and linear) ethoxy ether 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)	-	0.01
140	APFO 十五代氟辛酸铵盐 (APFO)	3825-26-1	0.01
141	Cadmium oxide 氧化镉	1306-19-0	0.01
142	Cd 镉	7440-43-9	0.01
143	DPP 邻苯二甲酸二正戊酯 (DPP)	131-18-0	0.01
144	PFOA 全氟辛酸 (PFOA)	335-67-1	0.01



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The tenth seven Substances of Very High Concern (Released in Dec 16, 2013)

SVHC 第十批清单 (7 项) 于 2013 年 12 月 16 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
145	Cadmium sulphide 硫化镉	1306-23-6	0.01
146	Dihexyl phthalate 邻苯二甲酸二己酯(DHXP)	84-75-3	0.01
147	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
148	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
149	Imidazolidine-2-thione (2-imidazoline-2-thiol) 亚乙基硫脲	96-45-7	0.01
150	Lead di(acetate) 醋酸铅(II)	301-04-2	0.01
151	Trixylyl phosphate 磷酸三(二甲苯)酯	25155-23-1	0.01

The eleventh four Substances of Very High Concern (Released in Jun 16, 2014)

SVHC 第十一批清单 (4 项) 于 2014 年 6 月 16 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 邻苯二甲酸二己酯 (支链和直链)	68515-50-4	0.01
153	Cadmium chloride 氯化镉	10108-64-2	0.01
154	Sodium perborate; perboric acid, sodium salt 过硼酸钠	-	0.01
155	Sodium peroxometaborate 过氧偏硼酸钠	7632-04-4	0.01



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The twelfth six Substances of Very High Concern (Released in Dec 17, 2014)

SVHC 第十二批清单 (6 项) 于 2014 年 12 月 17 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 紫外线吸收剂 UV328	25973-55-1	0.01
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) 紫外线吸收剂 UV320	3846-71-7	0.01
158	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)锡 (DOTE)	15571-58-1	0.01
159	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) 二正辛基-双(巯乙酸 2-乙基己酯)锡与甲基锡三(巯基乙酸异辛酯)的反应物 (DOTE 和 MOTE 反应物)	-	0.01
160	Cadmium fluoride 硫酸镉	7790-79-6	0.01
161	Cadmium sulphate 氟化镉	10124-36-4; 31119-53-6	0.01



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The thirteenth two Substances of Very High Concern (Released in Jun 15, 2015)

SVHC 第十三批清单 (2 项) 于 2015 年 06 月 15 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyldiesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5) 1,2-苯二羧酸二, 碳-C6-10-烷基酯; (癸基, 己基, 辛基) 酯与 1, 2- 邻苯二甲酸的复合物且邻苯二甲酸二己酯含量 $\geq 0.3\%$	68515-51-5, 68648-93-1	0.01
163	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 isomers of [1] and [2] or any combination thereof] 5-仲丁基-丁基-2-(2,4-二甲基环己胺-3-乙二胺-1-基)-5-甲基-1,3-二氧 乙烷 [1], 5-仲丁基-丁基-2-(4,6-二甲基环己胺-3-乙二胺-1-基) -5-甲基 -1,3-二氧乙烷 [2] (这两种物质的异构体以及它们的混合物)	-	0.01

The fourteenth five Substances of Very High Concern (Released in Dec 17, 2015)

SVHC 第十四批清单 (5 项) 于 2015 年 12 月 17 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
164	Nitrobenzene 1, 3-丙烷磺内酯	98-95-3	0.01
165	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
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) 2-(2'-羟基-3'-异丁基-5'-叔丁基基苯)苯并三唑(UV-350)	36437-37-3	0.01
167	1,3-propanesultone 1,3-丙烷磺内酯	1120-71-4	0.01
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts 全氟壬酸及其钠盐和铵盐	375-95-1 21049-39-8 4149-60-4	0.01



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The fifteenth one Substances of Very High Concern (Released in Jun 20, 2016)

SVHC 第十五批清单 (1 项) 于 2016 年 06 月 20 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
169	Benzo[def]chrysene (Benzo[a]pyrene) 苯并[a]芘	50-32-8	0.01

The sixteenth four Substances of Very High Concern (Released in Dec 19, 2016)

SVHC 第十六批清单 (4 项) 于 2016 年 12 月 19 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
170	4,4'-isopropylidenediphenol (bisphenol A) 双酚 A	80-05-7	0.01
171	4-heptylphenol, branched and linear (4-HPbl) 4-庚基苯酚, 支链和直链	/	0.01
172	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
173	p-(1,1-dimethylpropyl)phenol (PTAP) 对叔戊基苯酚	80-46-6	0.01

The seventeenth one Substance of Very High Concern (Released in Jul 07, 2017)

SVHC 第十七批清单 (1 项) 于 2017 年 7 月 7 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
174	Perfluorohexane-1-sulphonic acid and its salts(PFHXS) 全氟己烷 - 1 - 磺酸及其盐	355-46-4	0.01



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The eighteenth seven Substances of Very High Concern (Released in Jan 15, 2018)

SVHC 第十八批清单 (7 项) 于 2018 年 1 月 15 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
175	Chrysene 蒽	218-01-9 1719-03-5	0.01
176	Benz[a]anthracene 苯并蒽 (BaA)	56-55-3 1718-53-2	0.01
177	Cadmium nitrate ** 硝酸镉**	10325-94-7 10022-68-1	0.01
178	Cadmium hydroxide ** 氢氧化镉**	21041-95-2	0.01
179	Cadmium carbonate ** 碳酸镉**	513-78-0	0.01
180	Dechlorane Plus(TM) 顺式得克隆; 易来灭 DK-15; 反式得克隆	-	0.01
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] 2,5-二巯基噻二唑, 甲醛和 4-庚基苯酚反应产物, 支链或直链 (RP-HP) [4-庚基苯酚 $\geq 0.1\%$ w/w, 支链或直链]	-	0.01



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The nineteenth ten Substances of Very High Concern (Released in Jun 27, 2018)

SVHC 第十九批清单 (10 项) 于 2018 年 6 月 27 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
182	Octamethylcyclotetrasiloxane (D4) 八甲基环四硅氧烷 (D4)	556-67-2	0.01
183	Decamethylcyclopentasiloxane (D5) 十甲基环戊硅氧烷 (D5)	541-02-6	0.01
184	Dodecamethylcyclohexasiloxane (D6) 十二甲基环己硅氧烷 (D6)	540-97-6	0.01
185	Lead 铅	7439-92-1	0.01
186	Disodium octaborate 四水八硼酸二钠	12008-41-2	0.01
187	Benzo[ghi]perylene 苯并[G, H, I]芘	191-24-2	0.01
188	Terphenyl hydrogenated 氢化三联苯	61788-32-7	0.01
189	Ethylenediamine (EDA) 乙二胺 (EDA)	107-15-3	0.01
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA) 苯-1, 2, 4-三羧酸-1, 2-酐 (偏苯三酸酐) (TMA)	552-30-7	0.01
191	Dicyclohexyl phthalate (DCHP) 邻苯二甲酸二环己酯(DCHP)	84-61-7	0.01



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The twentieth six Substances of Very High Concern (Released in Jan 15, 2019)

SVHC 第二十批清单 (6 项) 于 2019 年 1 月 15 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
192	Pyrene 芘	129-00-0; 1718-52-1	0.01
193	Phenanthrene 菲	85-01-8	0.01
194	Fluoranthene 荧蒽	206-44-0; 93951-69-0	0.01
195	Benzo[k]fluoranthene 苯并[k]荧蒽	207-08-9	0.01
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane 2,2-双(4'-羟基苯基)-4-甲基戊烷	6807-17-6	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

The twenty-first four Substances of Very High Concern (Released in Jul 16, 2019)

SVHC 第二十一批清单 (4 项) 于 2019 年 7 月 16 日公布生效

No. 序号	Substances 物质名称	CAS No.	RL(%)
198	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)丙酸及其盐和酰基卤化物 (包括它们各自的同分异构体和混合物)	-	0.01
199	4-tert-butylphenol 4-叔丁基苯酚	98-54-4	0.01
200	2-methoxyethyl acetate 2-甲氧基乙基乙酸酯	110-49-6	0.01
201	Tris(4-nonylphenyl, branched and linear) phosphate (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-壬基酚, 支链和直链 (4-NP)	-	0.01

Remark:

- N.D. = Not Detected (<RL)
- N.D. = 未检出(小于报告限)
- RL = Report Limit
- RL = 报告限



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RESULTS:

- *The detected DHNUP are consisted of six phthalates which CAS number is 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0 according to the Annex 15 of REACH.
- *根据 ERACH 附件 15，检测到的 DHNUP 包含 CAS 号为 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 和 111381-91-0 六种邻苯二甲酸酯。
- **According to the 5.2.1 item of the third version of ECHA “Guidance on requirements for substances in articles”, 2015, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence an identification of substances in a sample(s) when necessary.
- **根据 2015 年欧洲化学品管理局发布的物品中物质指南 3.0 版中的 5.2.1 条款, 所选择的测试方法只能检测到某些元素的存在而不是化合物, 必要时需要使用额外的测试方法来鉴定具体的化合物。
- Report Results: based on measurements in most cases will identify the chemical constituents in the sample(s) but not necessarily “the substance” which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the third version of ECHA “Guidance on requirements for substances in articles”, 2015.
- 报告结果：在大多数情况下测试结果可以确定样品的化学成分，但不一定是“物质”，根据欧洲化学品管理局发布的物品中物质指南 3.0 版中的 5.2 条款, 最初用于生产，专业咨询、产品信息、测试流程，材料特征，SVHC 的特征、化学分析等得到评估结果。
- Report Limit: Be obtained from the uncertainty, the 0.1% threshold and the ECHA “Guidance on requirements for substances in articles”.
- 报告限值：根据欧洲化学品管理局发布的物品中物质指南，限值为 0.1%。



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RESULTS:

(2) Total Cadmium content- Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006

总镉含量- 欧盟(EC) No 1907/2006号 REACH 法规附件 XVII 第 23 项

Test Method: IEC 62321-5: 2013

测试方法:

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

测试仪器: 原子吸收分光光度计(AAS)

Test item(s) 测试项目	Unit 单位	MDL 方法检测限	Client Limit 客户限值	Result(s) 结果		
				1+2+3	4+5	6+7+8
Cadmium(Cd) 总镉	mg/kg	5	40	N.D.	N.D.	N.D.



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RESULTS:

(3) Phthalates content

邻苯二甲酸酯含量

Test Method: With reference to ISO 14389: 2014
 测试方法: 参考 ISO 14389: 2014
 Test Instrument: Gas Chromatography-Mass Spectrometer(GC-MS)
 测试仪器: 气相色谱-质谱联用仪(GC-MS)

Test item(s) 测试项目	CAS No.	Unit 单位	MDL 方法 检测限	Client Limit 客户限值	Result(s) 结果		
					1+2+3	4+5	6+7+8
Di-iso-nonyl phthalate 邻苯二甲酸二异壬酯(DINP)	28553-12-0 68515-48-0	%	0.01	-	N.D.	N.D.	N.D.
Di-n-octyl phthalate 邻苯二甲酸二正辛酯(DNOP)	117-84-0	%	0.005	-	N.D.	N.D.	N.D.
Diisodecyl phthalate 邻苯二甲酸二异癸酯(DIDP)	26761-40-0 68515-49-1	%	0.01	-	N.D.	N.D.	N.D.
Sun of (DINP, DNOP, DIDP) (DINP, DNOP, DIDP)总和	-	%	-	0.1	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	%	0.005	-	N.D.	N.D.	N.D.
Dibutyl phthalate 邻苯二甲酸二正丁酯(DBP)	84-74-2	%	0.005	-	N.D.	N.D.	N.D.
Benzyl butyl phthalate 邻苯二甲酸丁基苄酯(BBP)	85-68-7	%	0.005	-	N.D.	N.D.	N.D.
Diisobutyl phthalate 邻苯二甲酸二异丁酯(DIBP)	84-69-5	%	0.005	0.05	N.D.	N.D.	N.D.
Sun of (DEHP, DBP, BBP, DIBP) (DEHP, DBP, BBP, DIBP)总和	-	%	-	0.1	N.D.	N.D.	N.D.
1,2-Benzenedicarboxylic acid, Di-C7- 11-branched and linear alkyl esters 邻苯二甲酸二(C7-11 支链与直链)烷 基酯(DHNUP)	68515-42-4	%	0.005	0.05	N.D.	N.D.	N.D.
1,2-Benzenedicarboxylic acid, Di-C6- 8-branched and linear alkyl esters, C7- rich 邻苯二甲酸二异庚酯/邻苯二甲酸二 (C6-8 支链与直链)烷基酯, 富 C7 链 (DIHP)	71888-89-6	%	0.005	0.05	N.D.	N.D.	N.D.
Bis-methoxyethyl Phthalate 邻苯二甲酸二甲氧乙基酯(DMEP)	117-82-8	%	0.005	0.05	N.D.	N.D.	N.D.
n-pentyl isopentylphthalate 邻苯二甲酸正戊基异戊基酯(nPIPP)	776297-69-9	%	0.005	0.05	N.D.	N.D.	N.D.



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RESULTS:

Test item(s) 测试项目	CAS No.	Unit 单位	MDL 方法 检测限	Client Limit 客户限值	Result(s) 结果		
					1+2+3	4+5	6+7+8
Diisopentyl phthalate 邻苯二甲酸二异戊酯(DIPP)	605-50-5	%	0.005	0.05	N.D.	N.D.	N.D.
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 邻苯二甲酸戊基异戊酯; 支链和直链 1,2-苯二羧二戊酯	84777-06-0	%	0.005	0.05	N.D.	N.D.	N.D.
Di-n-pentyl Phthalate 邻苯二甲酸二戊酯(DPP /DPENP)	131-18-0	%	0.005	0.05	N.D.	N.D.	N.D.
Di-n-hexyl Phthalate 邻苯二甲酸二己酯(DHP/DHEXP)	84-75-3	%	0.005	0.05	N.D.	N.D.	N.D.
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 邻苯二甲酸二(支链与直链)己酯(DHxP)	68515-50-4	%	0.005	0.05	N.D.	N.D.	N.D.
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) (癸基, 己基, 辛基) 酯与 1, 2-邻苯二甲酸的复合物且邻苯二甲酸二己酯含量 \geq 0.3%(DC6-10P)	68515-51-5 68648-93-1	%	0.005	0.05	N.D.	N.D.	N.D.
Dicyclohexyl Phthalate 邻苯二甲酸二环己酯(DCHP)	84-61-7	%	0.005	0.05	N.D.	N.D.	N.D.
Di-(2-propylheptyl)-phthalate 邻苯二甲酸二(2-丙基)庚酯(DPHpP)	53306-54-0	%	0.005	0.05	N.D.	N.D.	N.D.
Diethyl phthalate 邻苯二甲酸二乙酯(DEP)	84-66-2	%	0.005	-	N.D.	N.D.	N.D.
Dimethyl phthalate 邻苯二甲酸二甲酯(DMP)	131-11-3	%	0.005	-	N.D.	N.D.	N.D.
Di-iso-hexylphthalate(DIHxP) 1,2-苯二羧酸二异己酯(DIHxP)	71850-09-4	%	0.005	-	N.D.	N.D.	N.D.
Diisooctyl phthalate 邻苯二甲酸二异辛酯(DIOP)	27554-26-3	%	0.005	-	N.D.	N.D.	N.D.
Dipropyl phthalate 邻苯二甲酸二丙酯(DPrP)	131-16-8	%	0.005	-	N.D.	N.D.	N.D.
Di-n-nonyl phthalate 邻苯二甲酸二壬酯(DNP)	84-76-4	%	0.005	-	N.D.	N.D.	N.D.



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RESULTS:

Test item(s) 测试项目	CAS No.	Unit 单位	MDL 方法 检测限	Client Limit 客户限值	Result(s) 结果		
					1+2+3	4+5	6+7+8
Sun of 25 Phthalates 25项邻苯二甲酸酯总和	-	%	-	0.1	N.D.	N.D.	N.D.



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RESULTS:

(4) Organic tin content

有机锡化合物含量

Test Method: With reference to ISO 17353: 2004

测试方法: 参考 ISO17353:2004

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

测试仪器: 气相色谱-质谱联用仪(GC-MS)

Test item(s) 测试项目	Unit 单位	MDL 方法检测限	Client Limit 客户限值	Result(s) 结果		
				1+2+3	4+5	6+7+8
Tripropyltin (TPT) 三丙基锡(TPT)	mg/kg	0.02	0.5	N.D.	N.D.	N.D.
Tributyltin (TBT) 三丁基锡(TBT)	mg/kg	0.02	0.5	N.D.	N.D.	N.D.
Trioctyltin (TOT) 三辛基锡(TOT)	mg/kg	0.02	0.5	N.D.	N.D.	N.D.
Triphenyltin (TPhT) 三苯基锡(TPhT)	mg/kg	0.02	0.5	N.D.	N.D.	N.D.
Tricyclohexyltin (TcyT) 三环己基锡(TcyT)	mg/kg	0.02	0.5	N.D.	N.D.	N.D.
Dibutyltin (DBT) 二丁基锡(DBT)	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Diocetyl (DOT) 二正辛基锡(DOT)	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Dimethyltin (DMT) 二甲基锡 (DMT)	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Dipropyltin(DPT) 二丙基锡(DPT)	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Diphenyl tin 二苯基锡 (DPhT)	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Monobutyltin 一丁基锡 (MBT)	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Monoocetyl tin 一辛基锡 (MOT)	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Monomethyltin 一甲基锡 (MMT)	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Tetrabutyltin 四丁基锡 (TTBT/TeBT)	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Trimethyltin (TMT) 三甲基锡	mg/kg	0.02	1.0	N.D.	N.D.	N.D.



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RESULTS:

Test item(s) 测试项目	Unit 单位	MDL 方法检测限	Client Limit 客户限值	Result(s) 结果		
				1+2+3	4+5	6+7+8
Monophenyltin (MPhT) 一苯基锡	mg/kg	0.02	1.0	N.D.	N.D.	N.D.
Tetraethyltin (TeET) 四乙基锡	mg/kg	0.02	1.0	N.D.	N.D.	N.D.

(5) Nonylphenol (NP), Octylphenol(OP), Nonylphenol Ethoxylates (NPEO) and Octylphenol Ethoxylate (OPEO)

Content

壬基苯酚(NP)、辛基苯酚(OP)、壬基酚聚氧乙烯醚(NPEO)和辛基酚聚氧乙烯醚(OPEO)的含量

Test Method: In-house method

测试方法: 实验室内部方法

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS) &

测试仪器: Liquid Chromatography-Mass Spectrometer (LC-MS)

气相色谱-质谱联用仪(GC-MS)& 液相色谱-质谱联用仪(LC-MS)

Test item(s) 测试项目	Unit 单位	MDL 方法 检测限	Client Limit 客户限值	Result(s) 结果		
				1+2+3	4+5	6+7+8
Nonylphenol(NP) 壬基苯酚(NP)	mg/kg	10	100	N.D.	N.D.	N.D.
Octylphenol(OP) 辛基苯酚(OP)	mg/kg	10	100	N.D.	N.D.	N.D.
Nonylphenol Ethoxylates (NPEO) 壬基酚聚氧乙烯醚(NPEO)	mg/kg	20	/	N.D.	N.D.	N.D.
Octylphenol Ethoxylate (OPEO) 辛基酚聚氧乙烯醚(OPEO)	mg/kg	20	/	N.D.	N.D.	N.D.
Total(NPEO+ OPEO) 总计(NPEO+ OPEO)	mg/kg	/	100	N.D.	N.D.	N.D.



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RESULTS:

(6) PAHs content

多环芳烃含量

Test Method: With reference to AfPS-GS-2014-01: PAK
 测试方法: 参考 AfPS-GS-2014-01: PAK
 Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)
 测试仪器: 气相色谱-质谱联用仪(GC-MS)

No. 序号	Test item(s) 测试项目	CAS No.	Unit 单位	MDL 方法检测限	Client Limit 客户限值	Result(s) 结果
						1+2+3
1	Naphthalene 萘*	91-20-3	mg/kg	0.2	< 1.0	N.D.
2	Acenaphthylene 芴烯	208-96-8	mg/kg	0.2	-	N.D.
3	Acenaphthene 芴	83-32-9	mg/kg	0.2	-	N.D.
4	Fluorene 芴	86-73-7	mg/kg	0.2	-	N.D.
5	Phenanthrene 菲	84-01-8	mg/kg	0.2	-	N.D.
6	Pyrene 芘	129-00-0	mg/kg	0.2	-	N.D.
7	Anthracene 蒽	120-12-7	mg/kg	0.2	-	N.D.
8	Fluoranthene 荧蒽	206-44-0	mg/kg	0.2	-	N.D.
Sum Of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene 芴烯、芴、芴、菲、芘、蒽、荧蒽 总和		-	mg/kg	-	< 1.0	N.D.
9	Benzo (a)anthracene 苯并[a]蒽	56-55-3	mg/kg	0.2	< 0.2	N.D.
10	Chrysene 屈	218-01-9	mg/kg	0.2	< 0.2	N.D.
11	Benzo (b) fluoranthene 苯并[b]荧蒽	205-99-2	mg/kg	0.2	< 0.2	N.D.
13	Benzo (j) fluoranthene 苯并[j]荧蒽	205-82-3	mg/kg	0.2	< 0.2	N.D.
12	Benzo (k) fluoranthene 苯并[k]荧蒽	207-08-9	mg/kg	0.2	< 0.2	N.D.
15	Benzo (a) pyrene 苯并[a]芘	50-32-8	mg/kg	0.2	< 0.2	N.D.
14	Benzo (e) pyrene 苯并[e]芘	192-97-2	mg/kg	0.2	< 0.2	N.D.
16	Indeno (1,2,3-cd) pyrene 茚并[1,2,3-cd]芘	193-39-5	mg/kg	0.2	< 0.2	N.D.
17	Dibenzo (a,h) anthracene 二苯并[a, h]蒽	53-70-3	mg/kg	0.2	< 0.2	N.D.
18	Benzo (g,h,i) perylene 苯并[g, h, i]芘	191-24-2	mg/kg	0.2	< 0.2	N.D.



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RESULTS:

No. 序号	Test item(s) 测试项目	CAS No.	Unit 单位	MDL 方法检测限	Client Limit 客户限值	Result(s) 结果
						1+2+3
Sum of 18 PAHs 18项多环芳烃总和		-	mg/kg	-	<1.0	N.D.
19	Anthanthrene 蒽嵌蒽	191-26-4	mg/kg	0.2	-	N.D.
20	Benzo(c) fluorine 苯并[c]芘	205-12-9	mg/kg	0.2	-	N.D.
21	Benzo(b) naphtha (2,1-d) thiophene 苯并萘并噻吩	239-35-0	mg/kg	0.2	-	N.D.
22	Cyclopenta [c,d] pyrene 环戊并[c,d]芘	27208-37-3	mg/kg	0.2	-	N.D.
23	Dibenzo[a,l] pyrene 二苯并[a,l]芘	191-30-0	mg/kg	0.2	-	N.D.
24	Dibenzo[a,e] pyrene 二苯并[a,e]芘	192-65-4	mg/kg	0.2	-	N.D.
25	Dibenzo[a,h] pyrene 二苯并[a,h]芘	189-64-0	mg/kg	0.2	-	N.D.
26	Dibenzo[a,i] pyrene 二苯并[a,i]芘	189-55-9	mg/kg	0.2	-	N.D.
27	1-Methylpyrene 1-甲基芘	2381-21-7	mg/kg	0.2	-	N.D.
28	5-Methylchrysen 5-甲基屈	3697-24-3	mg/kg	0.2	-	N.D.
Sum of above 10 PAHs 以上10项PAHs总和		-	mg/kg	-	<1.0	N.D.



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RESULTS:

No. 序号	Test item(s) 测试项目	CAS No.	Unit 单位	MDL 方法检测限	Client Limit 客户限值	Result(s) 结果	
						4+5	6+7+8
1	Naphthalene 萘*	91-20-3	mg/kg	0.2	<1.0	N.D.	N.D.
2	Acenaphthylene 茈烯	208-96-8	mg/kg	0.2	-	N.D.	N.D.
3	Acenaphthene 茈	83-32-9	mg/kg	0.2	-	N.D.	N.D.
4	Fluorene 芴	86-73-7	mg/kg	0.2	-	N.D.	N.D.
5	Phenanthrene 菲	84-01-8	mg/kg	0.2	-	N.D.	N.D.
6	Pyrene 芘	129-00-0	mg/kg	0.2	-	N.D.	N.D.
7	Anthracene 蒽	120-12-7	mg/kg	0.2	-	N.D.	N.D.
8	Fluoranthene 荧蒽	206-44-0	mg/kg	0.2	-	N.D.	N.D.
Sum Of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene 茈烯、茈、芴、菲、芘、蒽、荧蒽 总和		-	mg/kg	-	<1.0	N.D.	N.D.
9	Benzo (a)anthracene 苯并[a]蒽	56-55-3	mg/kg	0.2	<0.2	N.D.	N.D.
10	Chrysene 屈	218-01-9	mg/kg	0.2	<0.2	N.D.	N.D.
11	Benzo (b) fluoranthene 苯并[b]荧蒽	205-99-2	mg/kg	0.2	<0.2	N.D.	N.D.
13	Benzo (j) fluoranthene 苯并[j]荧蒽	205-82-3	mg/kg	0.2	<0.2	N.D.	N.D.
12	Benzo (k) fluoranthene 苯并[k]荧蒽	207-08-9	mg/kg	0.2	<0.2	N.D.	N.D.
15	Benzo (a) pyrene 苯并[a]芘	50-32-8	mg/kg	0.2	<0.2	N.D.	N.D.
14	Benzo (e) pyrene 苯并[e]芘	192-97-2	mg/kg	0.2	<0.2	N.D.	N.D.
16	Indeno (1,2,3-cd) pyrene 茚并[1,2,3-cd]芘	193-39-5	mg/kg	0.2	<0.2	N.D.	N.D.
17	Dibenzo (a,h) anthracene 二苯并[a, h]蒽	53-70-3	mg/kg	0.2	<0.2	N.D.	N.D.
18	Benzo (g,h,i) perylene 苯并[g, h, i]花	191-24-2	mg/kg	0.2	<0.2	N.D.	N.D.
Sum of 18 PAHs 18项多环芳烃总和		-	mg/kg	-	<1.0	N.D.	N.D.
19	Anthanthrene 蒽嵌蒽	191-26-4	mg/kg	0.2	-	N.D.	N.D.



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RESULTS:

No. 序号	Test item(s) 测试项目	CAS No.	Unit 单位	MDL 方法检 测限	Client Limit 客户限值	Result(s) 结果	
						4+5	6+7+8
20	Benzo(c) fluorine 苯并[c]芘	205-12-9	mg/kg	0.2	-	N.D.	N.D.
21	Benzo(b) naphtha (2,1-d) thiophene 苯并萘并噻吩	239-35-0	mg/kg	0.2	-	N.D.	N.D.
22	Cyclopenta [c,d] pyrene 环戊并[c,d]芘	27208-37-3	mg/kg	0.2	-	N.D.	N.D.
23	Dibenzo[a,l] pyrene 二苯并[a,l]芘	191-30-0	mg/kg	0.2	-	N.D.	N.D.
24	Dibenzo[a,e] pyrene 二苯并[a,e]芘	192-65-4	mg/kg	0.2	-	N.D.	N.D.
25	Dibenzo[a,h] pyrene 二苯并[a,h]芘	189-64-0	mg/kg	0.2	-	N.D.	N.D.
26	Dibenzo[a,i] pyrene 二苯并[a,i]芘	189-55-9	mg/kg	0.2	-	N.D.	N.D.
27	1-Methylpyrene 1-甲基芘	2381-21-7	mg/kg	0.2	-	N.D.	N.D.
28	5-Methylchrysen 5-甲基屈	3697-24-3	mg/kg	0.2	-	N.D.	N.D.
Sum of above 10 PAHs 以上10项多环芳烃总和		-	mg/kg	-	<1.0	N.D.	N.D.



RESULTS:

(7) Migration of Certain Elements- EN71-3:2013+A3:2018

特定元素迁移

Test Method: With reference to EN 71-3:2013+A3:2018
 测试方法: 参考 EN 71-3:2013+A3:2018
 Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)
 Inductively Coupled Plasma Mass Spectrometer (ICP-MS)
 测试仪器: 电感耦合等离子体发射光谱仪(ICP-OES)
 电感耦合等离子体质谱仪(ICP-MS)

Test item(s) 测试项目	Unit 单位	MDL 方法 检测限	Limit (mg/kg) 限值			Result(s) 结果		
			Compressed paint tablets and pliable modeling material 干性、易碎的、 粉末状或柔软 的玩具材料	Liquid paints 液体或 粘性玩 具材料	Solid(including coatings of paints、 polymeric material、 paper、textiles and glass, ceramic, metallic materials) 可刮下的玩具材料 (包括涂层油漆、聚 合材料、纸、纺织品 和玻璃、陶瓷、金属 材料)	1	2	3
Aluminum (Al) 铝(Al)	mg/kg	2	5625	1406	70000	N.D.	N.D.	N.D.
Antimony(Sb) 锑(Sb)	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
Arsenic(As) 砷(As)	mg/kg	2	3.8	0.9	47	N.D.	N.D.	N.D.
Barium(Ba) 钡(Ba)	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
Boron(B) 硼(B)	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Cadmium(Cd) 镉(Cd)	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Chromium(Cr ³⁺) 铬(Cr ³⁺)	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Chromium(Cr ⁶⁺) 铬(Cr ⁶⁺)	mg/kg	0.2	0.02	0.005	0.2	N.D.	N.D.	N.D.
Cobalt (Co) 钴(Co)	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.



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RESULTS:

Test item(s) 测试项目	Unit 单位	MDL 方法 检测限	Limit (mg/kg) 限值			Result(s) 结果		
			Compressed paint tablets and pliable modeling material 干性、易碎的、 粉末状或柔软 的玩具材料	Liquid paints 液体或 粘性玩 具材料	Solid(including coatings of paints、 polymeric material、 paper、textiles and glass, ceramic, metallic materials) 可刮下的玩具材料 (包括涂层油漆、聚 合材料、纸、纺织品 和玻璃、陶瓷、金属 材料)	1	2	3
铜 (Cu)								
Lead (Pb) 铅 (Pb)	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Manganese (Mn) 锰 (Mn)	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Mercury (Hg) 汞 (Hg)	mg/kg	2	7.5	1.9	94	N.D.	N.D.	N.D.
Nickel (Ni) 镍 (Ni)	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Selenium (Se) 硒 (Se)	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Strontium (Sr) 锶(Sr)	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Tin (Sn) 锡 (Sn)	mg/kg	2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin 有机锡	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zinc (Zn) 锌 (Zn)	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.



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RESULTS:

Test item(s) 测试项目	Unit 单位	MDL 方法 检测限	Limit (mg/kg) 限值			Result(s) 结果		
			Compressed paint tablets and pliable modeling material 干性、易碎的、 粉末状或柔软 的玩具材料	Liquid paints 液体或 粘性玩 具材料	Solid(including coatings of paints、 polymeric material、 paper、textiles and glass, ceramic, metallic materials) 可刮下的玩具材料 (包括涂层油漆、聚 合材料、纸、纺织品 和玻璃、陶瓷、金属 材料)	4	5	6
Aluminum (Al) 铝(Al)	mg/kg	2	5625	1406	70000	N.D.	N.D.	N.D.
Antimony(Sb) 锑(Sb)	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
Arsenic(As) 砷(As)	mg/kg	2	3.8	0.9	47	N.D.	N.D.	N.D.
Barium(Ba) 钡(Ba)	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
Boron(B) 硼(B)	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Cadmium(Cd) 镉(Cd)	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Chromium(Cr ³⁺) 铬(Cr ³⁺)	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Chromium(Cr ⁶⁺) 铬(Cr ⁶⁺)	mg/kg	0.2	0.02	0.005	0.2	N.D.	N.D.	N.D.
Cobalt (Co) 钴(Co)	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Copper (Cu) 铜(Cu)	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Lead (Pb) 铅(Pb)	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Manganese (Mn) 锰(Mn)	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Mercury (Hg) 汞(Hg)	mg/kg	2	7.5	1.9	94	N.D.	N.D.	N.D.



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RESULTS:

Test item(s) 测试项目	Unit 单位	MDL 方法 检测限	Limit (mg/kg) 限值			Result(s) 结果		
			Compressed paint tablets and pliable modeling material 干性、易碎的、 粉末状或柔软 的玩具材料	Liquid paints 液体或 粘性玩 具材料	Solid(including coatings of paints、 polymeric material、 paper、textiles and glass, ceramic, metallic materials) 可刮下的玩具材料 (包括涂层油漆、聚 合材料、纸、纺织品 和玻璃、陶瓷、金属 材料)	4	5	6
Nickel (Ni) 镍 (Ni)	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Selenium (Se) 硒 (Se)	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Strontium (Sr) 锶 (Sr)	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Tin (Sn) 锡 (Sn)	mg/kg	2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin 有机锡	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zinc (Zn) 锌 (Zn)	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.



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RESULTS:

Test item(s) 测试项目	Unit 单位	MDL 方法 检测限	Limit (mg/kg) 限值			Result(s) 结果	
			Compressed paint tablets and pliable modeling material 干性、易碎的、 粉末状或柔软 的玩具材料	Liquid paints 液体或 粘性玩 具材料	Solid(including coatings of paints、 polymeric material、 paper、textiles and glass, ceramic, metallic materials) 可刮下的玩具材料 (包括涂层油漆、聚 合材料、纸、纺织品 和玻璃、陶瓷、金属 材料)	7	8
Aluminum (Al) 铝(Al)	mg/kg	2	5625	1406	70000	N.D.	N.D.
Antimony(Sb) 锑(Sb)	mg/kg	2	45	11.3	560	N.D.	N.D.
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Mercury (Hg) 汞(Hg)	mg/kg	2	7.5	1.9	94	N.D.	N.D.



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RESULTS:

Test item(s) 测试项目	Unit 单位	MDL 方法 检测限	Limit (mg/kg) 限值			Result(s) 结果	
			Compressed paint tablets and pliable modeling material 干性、易碎的、 粉末状或柔软 的玩具材料	Liquid paints 液体或 粘性玩 具材料	Solid(including coatings of paints、 polymeric material、 paper、textiles and glass, ceramic, metallic materials) 可刮下的玩具材料 (包括涂层油漆、聚 合材料、纸、纺织品 和玻璃、陶瓷、金属 材料)	7	8
Nickel (Ni) 镍 (Ni)	mg/kg	2	75	18.8	930	N.D.	N.D.
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Tin (Sn) 锡 (Sn)	mg/kg	2	15000	3750	180000	N.D.	N.D.
Organic tin 有机锡	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.
Zinc (Zn) 锌 (Zn)	mg/kg	2	3750	938	46000	N.D.	N.D.

Remark :

备注 :

- The migration of organic tin is expressed as Tributyltin(TBT)
有机锡的迁移是表示为三丁基锡(TBT).
- Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3:2013+A3:2018
根据 EN 71-3:2013+A3:2018, 如果可溶性 Cr 没有超过标准, Cr III和 Cr VI的迁移不做要求.
- Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2013+A3:2018
根据 EN 71-3:2013+A3:2018, 如果可溶性锡没有超过标准, 有机锡的迁移不做要求.



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RESULTS:

(8) Total lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006

总铅含量-欧盟第1907/2006号REACH法规附件XVII第63项

Test Method: IEC 62321-5:2013

Test Instrument: Atomic Absorption Spectrophotometer (AAS)
原子吸收分光光度计(AAS)

Test item(s) 测试项目	Unit 单位	MDL 方法检测限	Client Limit 客户限值	Result(s) 结果		
				1+2+3	4+5	6+7+8
Lead(Pb) 总铅	mg/kg	10	90	N.D.	N.D.	N.D.

With the client's prior consent, * was subcontracted test item.

Note 备注:

- mg/kg=milligram per kilogram

- mg/kg= 毫克每千克

- N.D. =Not Detected (<MDL)

- N.D. =未检出 (小于方法检测限)

- As specified by client, the mixed testing were conducted.

-根据客户要求，对送检样品进行混合测试。

- As specified by client, only above test part(s) was/were analyzed.

-根据客户要求，对以上测试部位进行测试。

- *Based on its relative volatility against the other 27 PAH (according to EPA), naphthalene represents a parameter difficult to evaluate in close to skin products. Experience of the testing bodies show that loss of naphthalene as well

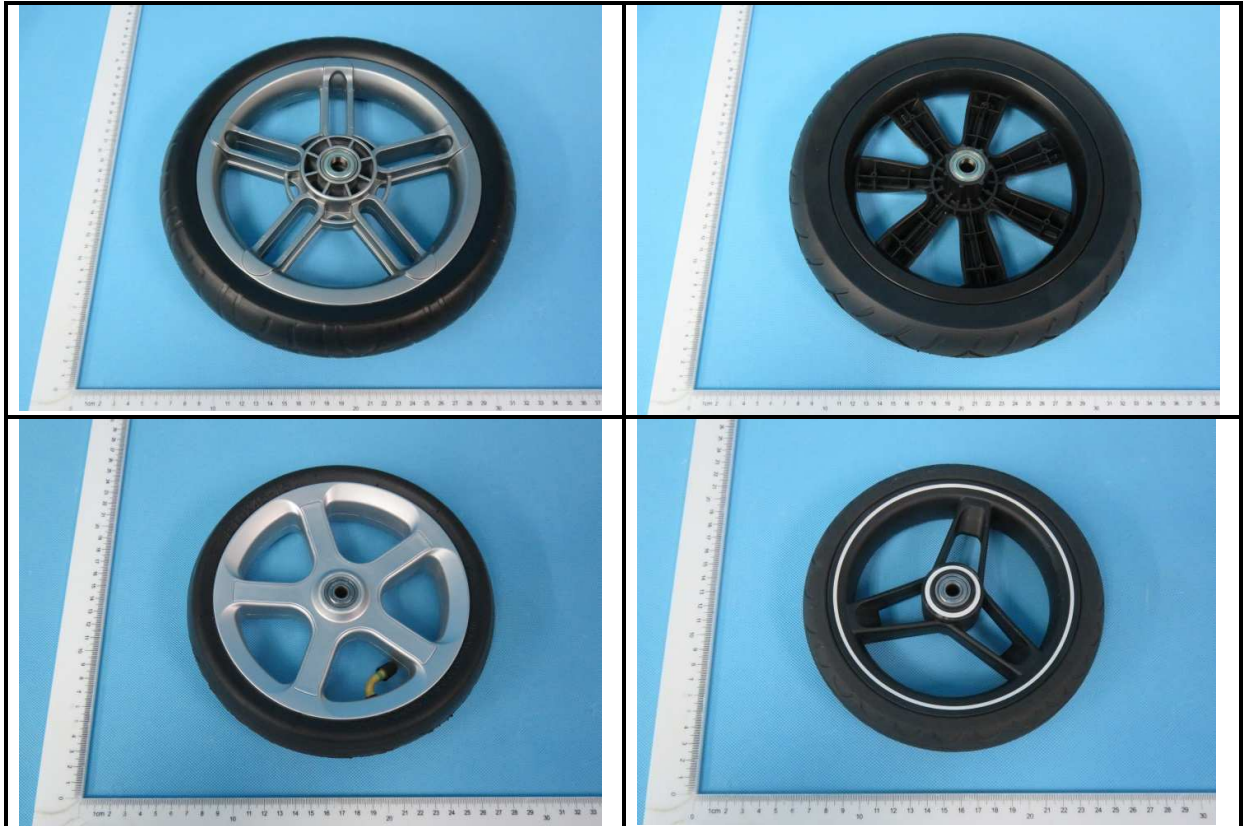
as secondary contamination can be found. The developed naphthalene result will always only show the momentary

situation of the test sample at the time of measurement.

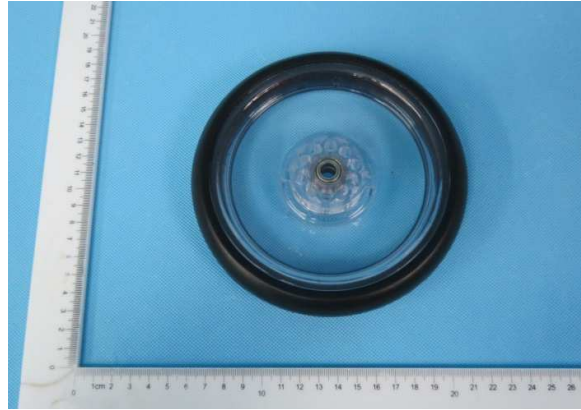
-*基于萘与其它 27 种 PAH(根据 EPA)相比，具有相对挥发性，它在与皮肤接触类产品中是一种难以评估的物质。可以找到测试机构在测试过程中萘的损失及二次污染的经验。所产生萘的测试结果往往只反应测试样品在测定时的一个短暂的状态。

RESULTS:

EXHIBIT # 1



RESULTS:



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End of Report