



CONSUMER PRODUCTS SERVICES DIVISION

SHENZHEN LEILONG PLASTIC PRODUCTS CO.,LTD

Review Report: (9019)219-0244
Date Received: AUG 07, 2019

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SHENZHEN LEILONG PLASTIC PRODUCTS CO., LTD
深圳市雷龙塑胶有限公司
NO. 12 HONG LING INDUSTRIAL PARK , SHI BI VILLAGE,
LIU LIAN COMMUNITY, PING DI LONG GANG 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:	REAR-WHEEL HEART NAIL QUICK RELEASE GROUP 后轮心钉快拆组		
Vendor:	N/A	SAMPLE SIZE:	1 PC
Manufacturer:	SHENZHEN LEILONG PLASTIC 深圳雷龙塑胶	STYLE NO(S):	EFAB8320/SH619
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:	A3
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 71 种高关注物质进行筛分测试。
- The migration of certain elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013+A3:2018. *
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 of 100ppm requirements in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).*
依据客户要求，参考美国《2008 消费品安全改进法案》(H.R. 4040) 和 H.R.2715 修正案第一部分第 101 条-禁止销售某些含铅的儿童产品；铅涂料规定，测定委托样品中铅的含量。



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

Technical enquiry:

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Bureau Veritas

Consumer Products Services (Shanghai)-Qingdao Branch

A handwritten signature in cursive script that reads 'Emily Xu'.

Emily Xu

Qingdao TOY Reporting Supervisor



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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	Silvery metal, pole body 银色金属, 杆子主体

Test Method 测试方法:

GST In-House method, Analyzed by ICP-OES, UV-VIS and Colorimetric Method.

GST 实验室内部方法, 用 ICP-OES 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	
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

No. 序号	Substances 物质名称	CAS No.	RL(%)
1	Cobalt dichloride ** 二氯化钴**	7646-79-9	0.01
2	Diarsenic pentaoxide ** 五氧化二砷**	1303-28-2	0.01
3	Diarsenic trioxide ** 三氧化二砷**	1327-53-3	0.01
5	Lead hydrogen arsenate ** 砷酸氢铅**	7784-40-9	0.01
4	Sodium dichromate** 二水(合)重铬酸钠**	7789-12-0 10588-01-9	0.01
6	Triethyl arsenate** 三乙基砷酸酯**	15606-95-8	0.01
7	Lead chromate ** 铬酸铅**	7758-97-6	0.01
8	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ** 钼铬红 (C.I.颜料红 104) **	12656-85-8	0.01
9	Lead sulfochromate yellow (C.I. Pigment Yellow 34) ** 铅铬黄 (C.I.颜料黄 34) **	1344-37-2	0.01
10	Boric acid ** 硼酸**	10043-35-3 11113-50-1	0.01
11	Disodium tetraborate, anhydrous ** 无水四硼酸钠**	1330-43-4 12179-04-3 1303-96-4	0.01
12	Tetraborate disodium heptaoxide, hydrous ** 七水合四硼酸钠**	12267-73-1	0.01
13	Sodium chromate ** 铬酸钠**	7775-11-3	0.01
14	Potassium chromate ** 铬酸钾**	7789-00-6	0.01
15	Ammonium dichromate ** 重铬酸铵**	7789-09-5	0.01
16	Potassium Dichromate ** 重铬酸钾**	7778-50-9	0.01
17	Cobalt(II) sulphate ** 硫酸钴 (II) **	10124-43-3	0.01
18	Cobalt(II) dinitrate ** 硝酸钴 (II) **	10141-05-6	0.01
19	Cobalt(II) carbonate ** 碳酸钴 (II) **	513-79-1	0.01
20	Cobalt(II) diacetate ** 乙酸钴**	71-48-7	0.01
21	Chromium trioxide** 三氧化铬**	1333-82-0	0.01
22	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



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RESULTS:

No. 序号	Substances 物质名称	CAS No.	RL(%)
23	Strontium chromate** 铬酸锶**	7789-06-2	0.01
24	Dioxobis(stearato)trilead** 双(十八烷基) 二氧化三铅**	12578-12-0	0.01
25	Dichromium tris(chromate) ** 铬酸铬**	24613-89-6	0.01
26	Potassium hydroxyoctaoxodizincatedichromate ** 氢氧化铬酸锌钾**	11103-86-9	0.01
27	Pentazinc chromate octahydroxide** 锌黄**	49663-84-5	0.01
28	Aluminosilicate Refractory Ceramic Fibres(RCF) ** 硅酸铝耐火陶瓷纤维**	--	0.01
29	Zirconia Aluminosilicate Refractory Ceramic Fibres(Zr-RCF) ** 氧化锆硅酸铝耐火陶瓷纤维**	--	0.01
30	Arsenic acid** 砷酸、原砷酸**	7778-39-4	0.01
31	Calcium arsenate** 砷酸钙**	7778-44-1	0.01
32	Trilead diarsenate** 砷酸铅**	3687-31-8	0.01
33	Lead diazide Lead azide** 迭氮化铅**	13424-46-9	0.01
34	Lead styphnate** 2,4,6-三硝基苯二酚铅**	15245-44-0	0.01
35	Lead dipicrate** 苦味酸铅**	6477-64-1	0.01
36	Diboron trioxide** 三氧化二硼**	1303-86-2	0.01
37	Lead (II) bis (methanesulfonate)** 甲磺酸铅(II)溶液**	17570-76-2	0.01
38	Pentalead tetraoxide sulphate** 氧化铅与硫酸铅的复合物**	12065-90-6	0.01
39	Lead dinitrate** 硝酸铅**	10099-74-8	0.01
40	Tetralead trioxide sulphate** 三碱式硫酸铅**	12202-17-4	0.01
41	Lead oxide (Lead monoxide)** 氧化铅**	1317-36-8	0.01
42	Lead titanium trioxide** 钛酸铅**	12060-00-3	0.01
43	Acetic acid, lead salt, basic** 碱式乙酸铅**	51404-69-4	0.01
44	Pyrochlore, antimony lead yellow** 颜料黄 41**	8012-00-8	0.01
45	Tetraethyllead** 四乙基铅**	78-00-2	0.01
46	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) ** 二盐基邻苯二甲酸铅**	69011-06-9	0.01
47	Lead cyanamidate** 氨基氰铅盐**	20837-86-9	0.01
48	Silicic acid, barium salt, lead-doped** 掺杂铅的硅酸钡**	68784-75-8	0.01



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RESULTS:

No. 序号	Substances 物质名称	CAS No.	RL(%)
49	Trilead dioxide phosphonate** 磷酸氧化铅**	12141-20-7	0.01
50	Lead Titanium Zirconium Oxide** 钛酸铅锆**	12626-81-2	0.01
51	Basic lead carbonate(trilead bis(carbonate)dihydroxide) ** 碱式碳酸铅**	1319-46-6	0.01
52	Fatty acids, C16-18, lead salts** C16-18 脂肪酸铅盐**	91031-62-8	0.01
53	Lead tetroxide (orange lead)** 四氧化三铅**	1314-41-6	0.01
54	Sulfurous acid, lead salt, dibasic** 氧化铅与硫化铅的复合物**	62229-08-7	0.01
55	Lead oxide sulfate (basic lead sulfate)** 碱式硫酸铅**	12036-76-9	0.01
56	Lead bis(tetrafluoroborate)** 氟硼酸铅**	13814-96-5	0.01
57	Silicic acid, lead salt** 硅酸铅**	11120-22-2	0.01
58	Cd 镉	7440-43-9	0.01
59	Cadmium oxide 氧化镉	1306-19-0	0.01
60	Cadmium sulphide 硫化镉	1306-23-6	0.01
61	Lead di(acetate) 醋酸铅(II)	301-04-2	0.01
62	Cadmium chloride 氯化镉	10108-64-2	0.01
63	Sodium perborate; perboric acid, sodium salt 过硼酸钠	-	0.01
64	Sodium peroxometaborate 过氧偏硼酸钠	7632-04-4	0.01
65	Cadmium fluoride 硫酸镉	7790-79-6	0.01
66	Cadmium sulphate 氟化镉	10124-36-4; 31119-53-6	0.01
67	Cadmium nitrate ** 硝酸镉**	10325-94-7 10022-68-1	0.01
68	Cadmium hydroxide ** 氢氧化镉**	21041-95-2	0.01
69	Cadmium carbonate ** 碳酸镉**	513-78-0	0.01
70	Lead 铅	7439-92-1	0.01
71	Disodium octaborate** 四水八硼酸二钠**	12008-41-2	0.01

Remark:

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



RESULTS:

- N.D. = 未检出(小于报告限)
- RL = Report Limit
- RL = 报告限
- *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%。

(2) 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)



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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)	
Aluminum (Al) 铝(Al)	mg/kg	2	5625	1406	70000	N.D.
Antimony(Sb) 锑(Sb)	mg/kg	2	45	11.3	560	N.D.
Arsenic(As) 砷(As)	mg/kg	2	3.8	0.9	47	N.D.
Barium(Ba) 钡(Ba)	mg/kg	2	1500	375	18750	N.D.
Boron(B) 硼(B)	mg/kg	2	1200	300	15000	N.D.
Cadmium(Cd) 镉(Cd)	mg/kg	0.2	1.3	0.3	17	N.D.
Chromium(Cr ³⁺) 铬(Cr ³⁺)	mg/kg	2	37.5	9.4	460	N.D.
Chromium(Cr ⁶⁺) 铬(Cr ⁶⁺)	mg/kg	0.2	0.02	0.005	0.2	N.D.
Cobalt (Co) 钴(Co)	mg/kg	2	10.5	2.6	130	N.D.
Copper (Cu) 铜(Cu)	mg/kg	2	622.5	156	7700	N.D.
Lead (Pb) 铅(Pb)	mg/kg	0.2	2.0	0.5	23	N.D.
Manganese (Mn) 锰(Mn)	mg/kg	2	1200	300	15000	N.D.
Mercury (Hg) 汞(Hg)	mg/kg	2	7.5	1.9	94	N.D.
Nickel (Ni) 镍(Ni)	mg/kg	2	75	18.8	930	N.D.



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)	
Selenium (Se) 硒 (Se)	mg/kg	2	37.5	9.4	460	N.D.
Strontium (Sr) 锶(Sr)	mg/kg	2	4500	1125	56000	N.D.
Tin (Sn) 锡 (Sn)	mg/kg	2	15000	3750	180000	N.D.
Organic tin 有机锡	mg/kg	0.2	0.9	0.2	12	N.D.
Zinc (Zn) 锌 (Zn)	mg/kg	2	3750	938	46000	N.D.

Remark :

备注 :

1. 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).
2. 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.
3. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the



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RESULTS:

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.

(3) Total lead content - Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment Title 1 section 101

总铅含量- 美国《2008 消费品安全改进法案》(H.R. 4040) 和H.R.2715修正案第一部分第101条

Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

基材中总铅含量

Test Method:

测试方法:

CPSC-CH-E1001-08.3

Test Instrument:

测试仪器:

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	Limit 限值	Result(s) 结果
				1
Lead(Pb) 总铅	mg/kg	10	100	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, 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.

RESULTS:

EXHIBIT # 1



90192190244

End of report