



CONSUMER PRODUCTS SERVICES DIVISION

## SHENZHEN LEILONG PLASTIC PRODUCTS CO., LTD

**Review Report:** (9019)219-0242  
Date Received: AUG 07, 2019

AUG 08, 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:	SPOKE IRON RIM WHEEL 辐条铁圈轮	Sample size:	1 PC
Vendor:	N/A	Style No(s):	N/A
Manufacturer:	SHENZHEN LEILONG PLASTIC 深圳雷龙塑胶	SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	N/A
Labeled Age Grade:	N/A	Ref #:	N/A
Appropriate Age Grade:	N/A	Assortment No.:	N/A
Client Specified Age Grade:	N/A	Country of Destination:	N/A
Grade:		Color:	N/A
Tested Age Grade:	N/A		
Country of Origin:	N/A		
UPC Code:	N/A		

### EXECUTIVE SUMMARY:

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

- The chemical content requirement of the client's specification with reference to the Chemicals of High Concern to Children (CHCCs) Content as Contaminant - Washington Revised Code (RCW), Chapter 70.240 Children's Safe Product Act (CPSA).\*

儿童安全产品法案 (CPSA) 下 WAC 儿童安全产品 - 报告法规第 173-334 章儿童高度关注化学物 (如污染物) 的含量要求 - 华盛顿修订守则第 70.240 章 (RCW)。

- The soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).\*

依据客户要求, 参考美国玩具安全标准 ASTM F963-17, 测定委托样品中可溶性重金属的含量。

- 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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**EXECUTIVE SUMMARY:**

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

**Technical enquiry:**

Gaily Gong 86-532-58827971 gaily.gong@cn.bureauveritas.com

**General enquiry and invoicing:**

Chloe Wang 86-532-58827923 chloe.wang@cn.bureauveritas.com

Mandy Zhang 86-532-58827932 mandy.zhang@cn.bureauveritas.com

Bureau Veritas

Consumer Products Services (Shanghai)-Qingdao Branch

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, wheel hub body 银色金属, 轮毂主体

**Result**

结果:

**(1) Washington CHCC Content Test**

华盛顿儿童高度关注化学物(CHCC)(如污染物)含量测试

Test Method: In-house Method

测试方法: 实验室方法

Test Instrument: Liquid Chromatography-Mass Spectrometer (LC-MS),  
Gas Chromatography-Mass Spectrometer (GC-MS)  
Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)  
Ultraviolet and visible spectrophotometer (UV-Vis)

测试仪器: 液相色谱-质谱联用仪(LC-MS)  
气相色谱-质谱联用仪(GC-MS)  
电感耦合等离子体发射光谱仪(ICP-OES)  
紫外分光光度计(UV-Vis)

No. 序号	Test item(s) 测试项目	Unit 单位	CAS No.	MDL 方法 检测限	Result (s) 结果
					1
1	Formaldehyde 甲醛	mg/kg	50-00-0	20	N.D.
2	Aniline 苯胺	mg/kg	62-53-3	20	N.D.
3	N-Nitrosodimethylamine N-二甲基亚硝胺	mg/kg	62-75-9	20	N.D.
4	Benzene 苯	mg/kg	71-43-2	20	N.D.
5	Vinyl chloride 氯乙烯	mg/kg	75-01-4	20	N.D.
6	Acetaldehyde 乙醛	mg/kg	75-07-0	20	N.D.
7	Methylene chloride 二氯甲烷	mg/kg	75-09-2	20	N.D.
8	Carbon disulfide 二硫化碳	mg/kg	75-15-0	20	N.D.
9	Methyl ethyl ketone 2-丁酮	mg/kg	78-93-3	20	N.D.
10	1,1,2,2-Tetrachloroethane	mg/kg	79-34-5	20	N.D.



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**RESULTS:**

No. 序号	Test item(s) 测试项目	Unit 单位	CAS No.	MDL 方法 检测限	Result (s) 结果
					1
	1,1,2,2-四氯乙烷				
11	Tetrabromobisphenol A (TBBPA) 四溴双酚 A (TBBPA)	mg/kg	79-94-7	20	N.D.
12	Bisphenol A(BPA) 双酚 A(BPA)	mg/kg	80-05-7	20	N.D.
13	Bisphenol S (BPS) * 双酚 S (BPS) *	mg/kg	80-09-1	20	N.D.
14	Dicyclohexyl phthalate (DCHP) * 邻苯二甲酸二环己酯 (DCHP) *	mg/kg	84-61-7	20	N.D.
15	Diethyl phthalate(DEP) 邻苯二甲酸二乙酯(DEP)	mg/kg	84-66-2	20	N.D.
16	Diisobutyl phthalate (DIBP) * 邻苯二甲酸二异丁酯 (DIBP) *	mg/kg	84-69-5	20	N.D.
17	Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯(DBP)	mg/kg	84-74-2	20	N.D.
18	Di-n-Hexyl phthalate(DNHP) 邻苯二甲酸二己酯(DNHP)	mg/kg	84-75-3	20	N.D.
19	Butyl benzyl phthalate (BBP) 邻苯二甲酸丁基苄基酯(BBP)	mg/kg	85-68-7	20	N.D.
20	N-Nitrosodiphenylamine N-亚硝基二苯胺	mg/kg	86-30-6	20	N.D.
21	Hexachlorobutadiene 六氯-1,3-丁二烯	mg/kg	87-68-3	20	N.D.
22	Propyl paraben 尼泊金丙酯	mg/kg	94-13-3	20	N.D.
23	Butyl paraben 尼泊金丁酯	mg/kg	94-26-8	20	N.D.
24	2-Aminotoluene 邻甲基苯胺	mg/kg	95-53-4	20	N.D.
25	2,4-Diaminotoluene 2,4-二氨基甲苯	mg/kg	95-80-7	20	N.D.
26	Methyl paraben 尼泊金甲酯	mg/kg	99-76-3	20	N.D.
27	4-Hydroxybenzoic acid 对羟基苯甲酸	mg/kg	99-96-7	20	N.D.
28	Ethylbenzene 乙苯	mg/kg	100-41-4	20	N.D.



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**RESULTS:**

No. 序号	Test item(s) 测试项目	Unit 单位	CAS No.	MDL 方法 检测限	Result (s) 结果
					1
29	Styrene 苯乙烯	mg/kg	100-42-5	20	N.D.
30	4-Nonylphenol 4-正壬基酚及其异构体	mg/kg	104-40-5	20	N.D.
31	para-Chloroaniline 4-氯苯胺	mg/kg	106-47-8	20	N.D.
32	Acrylonitrile 丙烯腈	mg/kg	107-13-1	20	N.D.
33	Ethylene glycol 乙二醇	mg/kg	107-21-1	20	N.D.
34	Toluene 甲苯	mg/kg	108-88-3	20	N.D.
35	Phenol 苯酚	mg/kg	108-95-2	20	N.D.
36	2-Methoxyethanol 乙二醇甲醚	mg/kg	109-86-4	20	N.D.
37	Ethylene glycol monoethyl ester 乙二醇乙醚	mg/kg	110-80-5	20	N.D.
38	Triphenyl phosphate (TPP) * 磷酸三苯酯 (TPP) *	mg/kg	115-86-6	20	N.D.
39	Tri(2-chloroethyl) phosphate (TCEP) 磷酸三(2-氯乙基)酯(TCEP)	mg/kg	115-96-8	20	N.D.
40	Di-2-ethylhexyl phthalate(DEHP) 邻苯二甲酸二(2-乙基)己酯(DEHP)	mg/kg	117-81-7	20	N.D.
41	Di-(2-methoxyethyl) phthalate (DMEP) * 邻苯二甲酸二甲氧乙酯 (DMEP) *	mg/kg	117-82-8	20	N.D.
42	Di-n-octyl phthalate (DnOP) 邻苯二甲酸二辛酯(DNOP)	mg/kg	117-84-0	20	N.D.
43	Hexachlorobenzene 六氯苯	mg/kg	118-74-1	20	N.D.
44	3,3'-Dimethylbenzidine and dyes metabolized to 3,3'-dimethylbenzidine 二甲基联苯胺及可代谢出3,3'-二甲基联苯 胺的染料	mg/kg	119-93-7	20	N.D.
45	Ethyl paraben 尼泊金乙酯	mg/kg	120-47-8	20	N.D.
46	1,4-Dioxane	mg/kg	123-91-1	20	N.D.



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**RESULTS:**

No. 序号	Test item(s) 测试项目	Unit 单位	CAS No.	MDL 方法 检测限	Result (s) 结果
					1
	二噁烷				
47	Tris (2,3-dibromopropyl) phosphate (TDBPP) * 磷酸三(2,3-二溴丙基)酯 (TDBPP) *	mg/kg	126-72-7	20	N.D.
48	Tri-n-butyl phosphate (TNBP) * 磷酸三丁酯 (TNBP) *	mg/kg	126-73-8	20	N.D.
49	Tetrachloroethene 四氯乙烯	mg/kg	127-18-4	20	N.D.
50	Dipentyl phthalate (DPP) * 邻苯二甲酸二戊酯 (DPP) *	mg/kg	131-18-0	20	N.D.
51	Benzophenone-2(Bp-2) 2,2',4,4'-四羟基二苯酮	mg/kg	131-55-5	20	N.D.
52	4-tert-Octylphenol 对特辛基苯酚	mg/kg	140-66-9	20	N.D.
53	Estragole 4-烯丙基苯甲醚	mg/kg	140-67-0	20	N.D.
54	2-Ethylhexanoic acid 异辛酸	mg/kg	149-57-5	20	N.D.
55	Perfluorooctanoic acid and related substances (PFOA) * 全氟辛酸及其相关物质 (PFOA) *	mg/kg	335-67-1	20	N.D.
56	Pentachlorobenzene 五氯苯	mg/kg	608-93-5	20	N.D.
57	Bisphenol F (BPF) * 双酚 F (BPF) *	mg/kg	620-92-8	20	N.D.
58	C.I. Solvent yellow 14 C.I. 溶剂黄 14	mg/kg	842-07-9	20	N.D.
59	N-Methylpyrrolidone N-甲基吡咯烷酮	mg/kg	872-50-4	20	N.D.
60	Decabromodiphenyl ether (BDE-209) 十溴二苯醚(Deca-BDE)	mg/kg	1163-19-5	20	N.D.
61	Ethylhexyl diphenyl phosphate (EHDPP)* 乙基己基二苯基磷酸酯 (EHDPP) *	mg/kg	1241-94-7	20	N.D.
62	Tricresyl phosphate (TCP) * 磷酸三甲苯酯 (TCP) *	mg/kg	1330-78-5	20	N.D.
63	Perfluorooctanyl sulphonic acid and its salts; PFOS	mg/kg	1763-23-1	20	N.D.



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**RESULTS:**

No. 序号	Test item(s) 测试项目	Unit 单位	CAS No.	MDL 方法 检测限	Result (s) 结果
					1
	全氟辛烷磺酸及其盐 PFOS				
64	4-octylphenol 4-辛基酚	mg/kg	1806-26-4	20	N.D.
65	2-Ethyl-hexyl-4-methoxycinnamate 对甲氧基肉桂酸甲酯	mg/kg	5466-77-3	20	N.D.
66	Mercury & mercury compounds including methyl mercury (CAS No. 22967-92-6) ** 汞和汞的化合物 包括甲基汞**	mg/kg	7439-97-6	20	N.D.
67	Antimony & antimony compounds ** 锑和锑的化合物**	mg/kg	7440-36-0	20	N.D.
68	Arsenic & arsenic compounds including arsenic trioxide(CAS No. 1327-53-3) & dimethyl arsenic (CAS No.75-60-5) ** 砷和砷的化合物 包括三氧化二砷&二甲基 砷**	mg/kg	7440-38-2	20	N.D.
69	Cadmium & cadmium compounds ** 镉和镉的化合物**	mg/kg	7440-43-9	20	N.D.
70	Cobalt & cobalt compounds ** 钴和钴的化合物**	mg/kg	7440-48-4	20	N.D.
71	Tris (1-chloro-2-propyl) phosphate (TCPP) * 磷酸三(2-氯丙基)酯 (TCPP) *	mg/kg	13674-84-5	20	N.D.
72	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) 磷酸三(1,3-二氯异丙基)酯 (TDCPP)	mg/kg	13674-87-8	20	N.D.
73	Butylated hydroxyanisole; BHA 叔丁基-4-羟基苯甲醚 BHA	mg/kg	25013-16-5	20	N.D.
74	Nonylphenol * 壬基苯酚 *	mg/kg	25154-52-3	20	N.D.
75	Hexabromocyclododecane(HBCDD) 六溴环十二烷 (HBCDD)	mg/kg	25637-99-4	20	N.D.
76	Bis (2-ethylhexyl) tetrabromophthalate (TBPH) * 四溴邻苯二甲酸双(2-乙基己基)酯 (TBPH) *	mg/kg	26040-51-7	20	N.D.
77	Diisodecyl phthalate (DIDP) 邻苯二甲酸二异癸酯(DIDP)	mg/kg	26761-40-0	20	N.D.
78	Diisononyl phthalate (DINP) 邻苯二甲酸二异壬酯(DINP)	mg/kg	28553-12-0	20	N.D.



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**RESULTS:**

No. 序号	Test item(s) 测试项目	Unit 单位	CAS No.	MDL 方法 检测限	Result (s) 结果
					1
79	Bis(chloromethyl)propane-1,3-diyl tetrakis-(2-chloroethyl) bis(phosphate) (V6) * 双氯甲基-三亚甲基-双[双(2-氯乙基)磷酸酯] (V6) *	mg/kg	38051-10-4	20	N.D.
80	Isopropylated triphenyl phosphate (IPDPP) * 异丙基化磷酸三苯酯 (IPDPP) *	mg/kg	68937-41-7	20	N.D.
81	4-Nonylphenol branched * 4-壬基苯酚，支链 *	mg/kg	84852-15-3	20	N.D.
82	Decabromodiphenyl ethane (DBDPE) * 十溴二苯乙烷 (DBDPE) *	mg/kg	84852-53-9	20	N.D.
83	Short-chain chlorinated paraffins (SCCP) * 短链氯化石蜡 (SCCP) *	mg/kg	85535-84-8	20	N.D.
84	Chlorinated paraffins * 氯化石蜡 *	mg/kg	108171-26-2	20	N.D.
85	2-Ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB)* 2-乙基己基-2,3,4,5-四溴苯甲酸 (TBB) *	mg/kg	183658-27-7	20	N.D.





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## **RESULTS:**

### **Remark:**

#### **备注:**

As per clause (1)(b) of Washington Administration Code (WAC) 173-334-080 of Chapter 173-334 Children's Safe Products - Reporting Rule, each chemical on the CHCC list that is a contaminant present in a product component must be reported at concentration above 100 mg/kg. The manufacturer must include the product component in the notice to the Washington State Department of Ecology unless the manufacturer had in place a manufacturing control program and exercised due diligence to minimize the presence of the contaminant in the component.

\*: the recent rule update is effective on October 30, 2017, 20 chemicals are added, phthalic anhydride, octamethylcyclotetrasiloxane (D4) and molybdenum and its compounds (Mo) are deleted, and 4-nonylphenol (NP) and its 2 isomeric forms were separated from one entry to 3 separate entries.

\*\* : The substances were tested in term of its respective elements (i.e. Antimony, Arsenic, Cobalt, Cadmium, Mercury

And Molybdenum)

根据儿童安全产品-报告法规第173-334章华盛顿行政代码(WAC) 173-334-080 中(1)(b)条款，产品组件的污染物中含有CHCC列表上的任何一种化学物浓度超过100 ppm必须通报。制造商必须在华盛顿州生态部通报中包括产品组件，除非制造商在制造中控制程序，并作出应尽的努力，以减少组件中存在的污染物。

\*：CHCC列表更新于2017年10月30日生效，新增20个物质，删去邻苯二甲酸酐、八甲基环四硅氧烷（D4）和钼及其化合物（Mo），同时4-壬基苯酚及其同分异构体被拆分为三个条目。

\*\*：测试结果基于其代表性元素的分析数据（如：锑，砷，钴，镉，汞和钼）



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**RESULTS:**

**(2) Soluble elements Content**

**可溶性重金属含量**

Test Method:

测试方法:

ASTM F 963-17 Section 8.3.5

Test Instrument:

测试仪器:

Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

电感耦合等离子体发射光谱仪 (ICP-OES)

Test item(s) 测试项目	Unit 单位	MDL 方法 检测限	Limit 限值	Result(s) 结果
				1
Cadmium(Cd) 可溶性镉	mg/kg	5	75	N.D.
Lead(Pb) 可溶性铅	mg/kg	5	90	N.D.
Chromium(Cr) 可溶性铬	mg/kg	5	60	N.D.
Mercury(Hg) 可溶性汞	mg/kg	5	60	N.D.
Antimony(Sb) 可溶性锑	mg/kg	5	60	N.D.
Barium(Ba) 可溶性钡	mg/kg	5	1000	N.D.
Arsenic(As) 可溶性砷	mg/kg	5	25	N.D.
Selenium(Se) 可溶性硒	mg/kg	5	500	N.D.

**(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.



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**RESULTS:**

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.
- CHCC = Chemical of High Concern to Children
- CHCC =儿童高度关注化学物

**RESULTS:**

**EXHIBIT # 1**



**90192190242**

End of report