

检测报告

编号: SHAHL23022154702

日期: 2024年02月05日

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客户名称: 永嘉县乐力游乐设备有限公司
客户地址: 浙江省永嘉县桥下镇垟塘工业园区(浙江南市教义有限公司内)

样品名称: 包管
以上样品及信息由客户提供。

SGS 号: SHHL2312067524TY
收样日期: 2024年01月03日
检测周期: 2024年01月03日~2024年01月09日
检测要求: 根据客户要求检测。
执行的检测: 按照客户要求进行下列选定的检测。

	检测要求	结论
1	欧盟法规(EC) No 1907/2006 Reach 附录 XVII 的修正指令(EC) No 276/2010 第 20 条 - 有机锡化合物	符合
2	欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2018/2005 第 51 条- 邻苯二甲酸酯	符合
3	欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2015/326 第 52 条 - 邻苯二甲酸酯	符合
4	邻苯二甲酸酯	见检测结果
5	EN 71-3:2019+A1:2021 - 特定元素迁移测试(针对第三类:可以刮取玩具材料)	符合
6	欧盟 POPs 法规(EU) 2019/1021 附录 I-C ₁₀ -C ₁₃ 氯代烃(短链氯化石蜡)(SCCPs)	符合
7	CPSIA 章节 101(a)(2) - 可接触基材中的铅	符合
8	CPSIA 第 108 章节修订法案-美国消费品安全委员会 (CPSC) 关于限制玩具和儿童护理用品用品中特定邻苯二甲酸酯的最终规则-16 CFR 1307	符合
9	AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)	见检测结果

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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA23-0221547-0001.C001	绿色泡棉

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟法规(EC) No 1907/2006 Reach 附录 XVII 的修正指令(EC) No 276/2010 第 20 条 - 有机锡化合物

检测方法: 参考 ISO 17353:2004, 采用 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
按 TBT (三丁基锡) 换算回锡的含量	-	%	0.01	ND
按 TPhT (三苯基锡) 换算回锡的含量	-	%	0.01	ND
按 TCyT (三环己基锡) 换算回锡的含量	-	%	0.01	ND
按 TOT (三辛基锡) 换算回锡的含量	-	%	0.01	ND
按 TPT (三丙基锡) 换算回锡的含量	-	%	0.01	ND
按 TMT (三甲基锡) 换算回锡的含量	-	%	0.01	ND
三代有机锡化合物换算锡含量	0.1	%	-	ND
按 DBT (二丁基锡) 换算回锡的含量	0.1	%	0.01	ND
按 DOT (二辛基锡) 换算回锡的含量	0.1	%	0.01	ND
结论				符合

欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2018/2005 第 51 条- 邻苯二甲酸酯

检测方法: 参考 CPSC-CH-C1001-09.4, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
邻苯二甲酸二丁酯 (DBP)	84-74-2	0.1	%	0.005	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	0.1	%	0.005	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	0.1	%	0.005	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	0.1	%	0.005	ND
合计 (DBP + BBP + DEHP+DIBP)	-	0.1	%	-	ND
结论					符合

备注:

DBP、BBP、DEHP、DIBP 参考信息: 欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2018/2005 第 51 条:

i) 不允许 DBP、BBP、DEHP、DIBP 单一质量浓度或质量浓度总和等于或高于 0.1% 的可塑性物料用于玩具和儿童护理品。



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- ii) 当玩具和儿童护理品中的可塑性物料含 DBP、BBP、DEHP 单一质量浓度或质量浓度总和等于或高于 0.1% 时, 不得投放市场。另外, 当玩具和儿童护理品中的可塑性物料含 DIBP 单一质量浓度或 DBP、BBP、DEHP、DIBP 质量浓度总和等于或高于 0.1% 时, 2020 年 7 月 7 日后不得投放市场。
 - iii) 当成品中的可塑性物料含 DBP、BBP、DEHP、DIBP 单一质量浓度或质量浓度总和等于或高于 0.1% 时, 2020 年 7 月 7 日后不得投放市场。
- 详细信息请参见 Regulation (EU) 2018/2005。

欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2015/326 第 52 条- 邻苯二甲酸酯

检测方法: 参考 CPSC-CH-C1001-09.4, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /68515-48-0	-	%	0.005	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	-	%	0.005	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	-	%	0.005	ND
合计(DINP + DNOP + DIDP)	-	0.1	%	-	ND
结论					符合

备注:

DINP、DNOP、DIDP 参考信息: 欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及修正法案(EU) 2015/326 第 52 条:

- i) 不允许 DINP、DNOP、DIDP 质量浓度高于 0.1% 的可塑性物料用于可放入儿童口中的玩具和儿童护理品。
 - ii) 当可放入儿童口中的玩具和儿童护理品中的可塑性物料含 DINP, DNOP, DIDP 质量浓度高于 0.1% 时, 不得投放市场。
- 详细信息请参见 Regulation (EU) 2015/326。

邻苯二甲酸酯

检测方法: 参考 EN 14372:2004, 采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
邻苯二甲酸二丁酯(DBP)	84-74-2	%	0.003	ND
邻苯二甲酸二(2-乙基己基) (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸丁苄酯(BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /68515-48-0	%	0.010	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.010	ND
邻苯二甲酸二异丁酯(DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二戊酯(DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸二正己酯(DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二环己酯(DCHP)	84-61-7	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯(DiPP)	605-50-5	%	0.003	ND



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检测项目	CAS No.	单位	MDL	A1
邻苯二甲酸正戊基异戊基酯(nPiPP)	776297-69-9	%	0.003	ND
1,2-苯二甲酸,二-C6-8支链烷基酯,富C7(DIHP)	71888-89-6	%	0.010	ND
邻苯二甲酸-二(C7,C9,C11)烷基酯(DHNUP)	68515-42-4	%	0.010	ND
1,2-苯二甲酸-二(支链与直链)戊基酯	84777-06-0	%	0.010	ND
1,2-苯二甲酸-二(支链与直链)己基酯(DHxP)	68515-50-4	%	0.010	ND
邻苯二甲酸二异己基酯(DIHxP)	71850-09-4	%	0.010	ND
1,2-苯二甲酸,二(C6-10)烷基酯 / 1,2-苯二甲酸,混合二己二辛二癸酯,其中邻苯二甲酸二己酯含量≥0.3%	68515-51-5 / 68648-93-1	%	0.010	ND

EN 71-3:2019+A1:2021 - 特定元素迁移测试(针对第三类:可以刮取玩具材料)

检测方法: 参考 EN 71-3:2019+A1:2021, 采用 ICP-OES, IC-UV 或 LC-ICP-MS 进行分析。

检测项目	限值	单位	MDL	A1
可溶性铝 (Al)	28130	mg/kg	50	ND
可溶性铍 (Sb)	560	mg/kg	10	ND
可溶性砷 (As)	47	mg/kg	10	ND
可溶性钡 (Ba)	18750	mg/kg	50	ND
可溶性硼 (B)	15000	mg/kg	50	ND
可溶性镉 (Cd)	17	mg/kg	5	ND
可溶性三价铬 (Cr III)	460	mg/kg	5	ND
可溶性六价铬 (CrVI)	0.053	mg/kg	0.025	ND
可溶性钴 (Co)	130	mg/kg	10	ND
可溶性铜 (Cu)	7700	mg/kg	50	ND
可溶性铅 (Pb)	23	mg/kg	5	ND
可溶性锰 (Mn)	15000	mg/kg	50	ND
可溶性汞 (Hg)	94	mg/kg	10	ND
可溶性镍 (Ni)	930	mg/kg	10	ND
可溶性硒 (Se)	460	mg/kg	10	ND
可溶性锶 (Sr)	56000	mg/kg	50	ND
可溶性锡 (Sn)	180000	mg/kg	3	ND
可溶性锌 (Zn)	46000	mg/kg	50	ND
可溶性有机锡*	12	mg/kg	-	ND
结论				符合

备注:

(1) 根据 EN 71-3:2019+A1:2021 第 10.1.2 章节规定, Cr(III)结果由以下公式换算得到:

可溶性三价铬 = 可溶性总铬 - 可溶性六价铬

(2) * 可溶性锡转化为可溶性有机锡后的含量没有超过 EN 71-3:2019+A1:2021 中相应限量, 根据 EN 71-3:2019+A1:2021 的要求, 不需要额外检测可溶性有机锡的含量。

欧盟 POPs 法规(EU) 2019/1021 附录 I-C₁₀-C₁₃ 氯代烃(短链氯化石蜡)(SCCPs)



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检测方法: 参考 ISO 22818:2021, 采用 GC-NCI-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
C ₁₀ -C ₁₃ 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8 及其它	1500	mg/kg	50	ND
结论					符合

CPSIA 章节 101(a)(2) - 可接触基材中的铅

检测方法: 参考 CPSC-CH-E1002-08.3, 采用 AAS/ICP-OES 进行分析。

检测项目	限值	单位	MDL	A1
铅 (Pb)	0.01	%	0.0020	ND
结论				符合

CPSIA 第 108 章节修订法案-美国消费品安全委员会 (CPSC) 关于限制玩具和儿童护理用品用品中特定邻苯二甲酸酯的最终规则-16 CFR 1307

检测方法: 参考 CPSC-CH-C1001-09.4, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
邻苯二甲酸丁苄酯 (BBP)	85-68-7	0.1	%	0.0050	ND
邻苯二甲酸二丁酯 (DBP)	84-74-2	0.1	%	0.0050	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	0.1	%	0.0050	ND
邻苯二甲酸二(2-乙基)己酯 (DEHP)	117-81-7	0.1	%	0.0050	ND
邻苯二甲酸二正己酯 (DHEXP/DnHP)	84-75-3	0.1	%	0.0050	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	0.1	%	0.0050	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /68515-48-0	0.1	%	0.0050	ND
邻苯二甲酸二戊酯 (DPENP)	131-18-0	0.1	%	0.0050	ND
结论					符合

AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)

检测方法: 参考 AfPS GS 2019:01 PAK, 采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
蒽 (CHR)	218-01-9	mg/kg	0.1	ND



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检测项目	CAS No.	单位	MDL	A1
二苯并(a,h)蒽 (DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)芘(二苯嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
茚苯(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
4项多环芳香烃总和[菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)]	-	mg/kg	-	ND
萘 (NAP)	91-20-3	mg/kg	0.1	ND
15项多环芳香烃总和	-	mg/kg	-	ND
材料分类	-	-	-	-

备注:

AFPS(德国产品安全委员会): 认证对多环芳香烃的要求

参数 单位: mg/kg	1类	2类		3类	
	设计意图为放入口中的材料, 或与皮肤长期接触(超过30秒)的材料用于-2009/48/EC定义的玩具, 或-供3岁以下儿童 ^{a,b} 使用。	不属于第1类, 设计意图或可预见 ^d 与皮肤长期接触(超过30秒)或短期重复接触 ^e 的材料		不属于第1和2类, 设计意图或可预见与皮肤短期接触(不超过30秒)材料	
		a.供儿童使用的产品	b.其他产品	a.供儿童使用的产品	b.其他产品
苯并(a)芘 (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(k)荧蒽 (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
蒎 (CHR), mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)芘(二苯嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(1,2,3-c,d)芘 (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2		< 10	
15 PAH之和	< 1	< 5	< 10	< 20	< 50

注释:

^a 儿童是指法定年龄未满 14 周岁的人。



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检测报告

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- b 供儿童使用包括儿童的主动接触或被动接触。
- c “短期重复接触”的定义摘自 REACH 附录 XVII 第 50 条修正案 ((EC) No. 1272/2013)。
- d 根据德国产品安全法 (ProdSG) (第一章第 2 条第 28 款) 的定义, “可预见的使用”是指将产品投放市场的人无意但可以合理预见的方式使用产品。

备注:

德国产品安全委员会 (AfPS) 于 2020 年 4 月 10 日发布了关于多环芳香烃 (PAHs) 的新文件 (AfPS GS 2019:01 PAK), 该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

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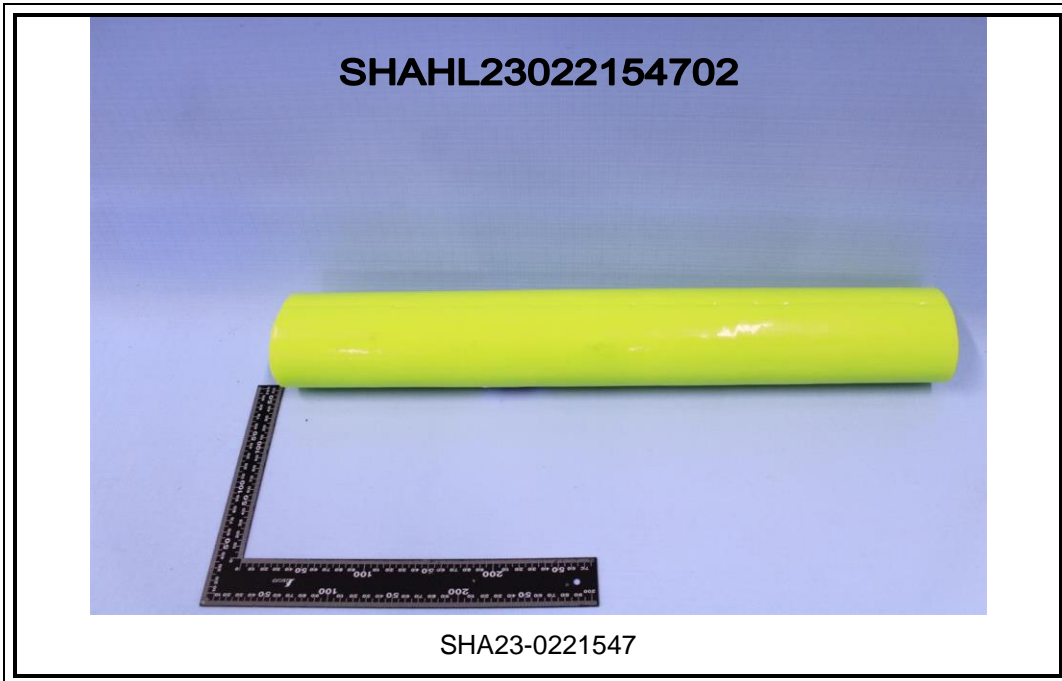
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