

# 测试报告

No. SHAHG1403657802

日期: 2014年03月24日 第1页,共6页

黄山加佳荧光材料有限公司  
安徽省黄山市歙县循环经济园区纬一路8号

以下测试之样品是由申请者所提供及确认: LWF水浆涂料

SGS工作编号: SHHG1403006545SD - SH  
 款号: LWF水浆涂料  
 样品接收日期: 2014年03月12日  
 测试周期: 2014年03月12日 - 2014年03月22日  
 测试要求: 根据客户要求测试  
 测试方法: 请参见下一页  
 测试结果: 请参见下一页

测试结果概要:

测试要求	结论
欧盟玩具指令2009/48/EC协调标准 EN71-3:2013- 元素迁移 (针对: 液态或粘性玩具材料)	见测试结果
游离甲醛	见测试结果
烷基酚聚氧乙烯醚(APEOs)(辛基酚聚氧乙烯醚(OPEOs), 壬基酚聚氧乙烯醚(NPEOs))	见测试结果
偶氮染料	见测试结果
多环芳香烃(PAH)	见测试结果

通标标准技术服务有限公司

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Serena Wang 王璟

批准签署人

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测试结果:

### 测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA14-036578.001	红色液体

备注:

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

### 欧盟玩具指令2009/48/EC协调标准 EN71-3:2013- 元素迁移 (针对: 液态或粘性玩具材料)

测试方法: 参照EN 71-3:2013, 采用ICP-MS进行分析.

可溶性六价铬采用IC-UV 或LC-ICP-MS进行分析.

测试项目	限值	单位	MDL	001
可溶性六价铬 (CrVI)	0.005	mg/kg	0.005	ND
可溶性铅 (Pb)	3.4	mg/kg	0.5	0.9
可溶性锑 (Sb)	11.3	mg/kg	1	ND
可溶性砷 (As)	0.9	mg/kg	0.5	ND
可溶性钡 (Ba)	375	mg/kg	50	ND
可溶性镉 (Cd)	0.3	mg/kg	0.1	ND
可溶性三价铬 (CrIII)	9.4	mg/kg	5	ND
可溶性汞 (Hg)	1.9	mg/kg	0.5	ND
可溶性硒 (Se)	9.4	mg/kg	5	ND
可溶性硼 (B)	300	mg/kg	50	ND
可溶性钴 (Co)	2.6	mg/kg	0.5	ND
可溶性锰 (Mn)	300	mg/kg	50	ND
可溶性锶 (Sr)	1125	mg/kg	50	ND
可溶性锡 (Sn)	3750	mg/kg	0.08	ND
可溶性锌 (Zn)	938	mg/kg	50	236
可溶性铜 (Cu)	156	mg/kg	50	ND
可溶性铝 (Al)	1406	mg/kg	50	ND
可溶性镍 (Ni)	18.8	mg/kg	10	ND
可溶性有机锡(以锡计) *	0.2	mg/kg	0.08	ND

备注:

- (1) \*可溶性锡转化为可溶性有机锡后的含量没有超过 EN71-3: 2013中相应限量, 根据EN 71-3: 2013的要



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求, 不需要额外测试可溶性有机锡的含量。

### 游离甲醛

测试方法: 内定方法(SHTC-CHEM-SOP-315-T) 测定, 采用UV-Vis进行分析。

测试项目	单位	MDL	001
游离甲醛	g/kg	0.02	ND

### 烷基酚聚氧乙烯醚(APEOs)(辛基酚聚氧乙烯醚(OPEOs), 壬基酚聚氧乙烯醚(NPEOs))

测试方法: 以内定方法(SHTC-CHEM-SOP-92-T) 测定, 采用LC-MS进行分析。

测试项目	单位	MDL	001
壬基酚聚氧乙烯醚(NPEOs)	mg/kg	50	ND
辛基酚聚氧乙烯醚(OPEOs)	mg/kg	50	ND

备注:

(1) NPEOs参考信息:1907/2006/EC Reach 附录XVII的修正指令——552/2009/EC 第46条(前身为2003/53/EC): 当用于下属用途时,不允许NP、NPEOs质量浓度等于或高于0.1%的物料或者配置品投放市场:工业和公共机构清洁,家用清洗,纺织品和皮革加工,农业处理系统的中的乳化剂,金属加工,纸浆和纸张的制造,化妆品,其他个人护理用品和杀虫剂和生物农药中的复合赋形剂  
 详细信息请参见Regulation (EC) No 552/2009

### 偶氮染料

测试方法: 参考EN 14362-1:2012 - 使用GC-MS / HPLC-DAD 测定纤维中含有需萃取分析的某些偶氮色剂。

测试项目	CAS NO.	单位	MDL	001
4-氨基联苯	92-67-1	mg/kg	5	ND
联苯胺	92-87-5	mg/kg	5	ND
4-氯邻甲苯	95-69-2	mg/kg	5	ND
2-萘胺	91-59-8	mg/kg	5	ND
邻氨基二甲基偶氮苯	97-56-3	mg/kg	5	ND
2-氨基-4-硝基甲苯	99-55-8	mg/kg	5	ND
对氯苯胺	106-47-8	mg/kg	5	ND
2, 4-二氨基苯甲醚	615-05-4	mg/kg	5	ND
4,4'-二氨基二苯甲烷	101-77-9	mg/kg	5	ND
3,3'-二氯联苯胺	91-94-1	mg/kg	5	ND



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测试项目	CAS NO.	单位	MDL	001
3,3'-二甲氧基联苯胺	119-90-4	mg/kg	5	ND
3,3'-二甲基联苯胺	119-93-7	mg/kg	5	ND
3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0	mg/kg	5	ND
3-氨基对甲苯甲醚 (p-克利酞)	120-71-8	mg/kg	5	ND
4,4'-次甲基-双-(2-氯苯胺)	101-14-4	mg/kg	5	ND
4,4'-二氨基二苯醚	101-80-4	mg/kg	5	ND
4,4'-二氨基二苯硫醚	139-65-1	mg/kg	5	ND
邻甲苯胺	95-53-4	mg/kg	5	ND
2,4-二氨基甲苯	95-80-7	mg/kg	5	ND
2,4,5-三甲苯胺	137-17-7	mg/kg	5	ND
4-氨基偶氮苯	60-09-3	mg/kg	5	ND
邻甲氧基苯胺	90-04-0	mg/kg	5	ND

### 结论

\*\*

### 备注:

- (1) EN 14362-1:2012 方法使4-氨基偶氮苯(CAS No:60-09-3)在本实验条件下进一步裂解为非禁用的胺:苯胺或1,4-苯二胺. 如果如果经上述测试方法没有检出苯胺和/或1,4-苯二胺(i.e. <5mg/kg), 则认为 4-氨基偶氮苯(CAS No:60-09-3) "未检出" (i.e. <5mg/kg). 否则, 将采用EN 14362-3:2012 方法验证4-氨基偶氮苯的存在.
- (2) \*\*=对于纺织品, 要求相关苯胺含量不超过30mg/kg, 此测试方法仅适用于纺织品, 测试结果仅供客户参考.
- (3) 4-氨基联苯(CAS No. 92-67-1), 2-萘胺(CAS number 91-59-8), 2,4-二氨基苯甲醚(CAS No. 615-05-4) 有检出时, 如果没有进一步的信息(如染料的化学结构)提供, 并不能确认使用了禁用的偶氮染料.
- (4) 当样品中含有聚氨酯材料(如含PU泡沫、PU涂层和PU胶印)时, 某些胺类, 若4,4'-二氨基二苯甲烷(MDA, CAS No. 101-77-9) 和 2,4-二氨基甲苯(TDA, CAS No. 95-80-7) 有检出, 并不能确认其来自PU材料而非禁用偶氮染料.
- (5) 当样品中含有胶印时, 若4,4'-二氨基二苯甲烷(MDA, CAS No. 101-77-9) 有检出, 需要注意该物质可能不是来源于禁用的偶氮染料, 而是来源于其它物料, 如化学固色剂.

### 多环芳香烃(PAH)

测试方法: 参照ZEK-01.4-08及其后续指令, 采用 GC-MS进行分析.

测试项目	单位	MDL	001
18项多环芳香烃总和	mg/kg	-	ND
萘 (NAP)	mg/kg	0.2	ND
苊烯 (ANY)	mg/kg	0.2	ND
苊 (萘嵌戊烷) (ANA)	mg/kg	0.2	ND



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测试项目	单位	MDL	001
芴 (FLU)	mg/kg	0.2	ND
菲 (PHE)	mg/kg	0.2	ND
蒽 (ANT)	mg/kg	0.2	ND
荧蒽 (FLT)	mg/kg	0.2	ND
芘 (PYR)	mg/kg	0.2	ND
苯并(a)蒽 (BaA)	mg/kg	0.2	ND
屈 (CHR)	mg/kg	0.2	ND
苯并(b)荧蒽 (BbF)和苯并(j)荧蒽 (BjF)	mg/kg	0.4	ND
苯并(k)荧蒽 (BkF)	mg/kg	0.2	ND
苯并(a)芘 (BaP)	mg/kg	0.2	ND
苯并(e)芘 (BeP)	mg/kg	0.2	ND
茚并(1,2,3-c,d)芘 (IPY)	mg/kg	0.2	ND
二苯并(a,h)蒽(DBA)	mg/kg	0.2	ND
苯并(g,h,i)芘(二苯并嵌苯) (BPE)	mg/kg	0.2	ND

### ZEK 01.4-08: 产品最大控制值

参数	1类	2类	3类
	设计意图为放入口中的材料,以及36个月以下幼儿的玩具上与皮肤接触的材料	未在1类规定中涵盖的材料,且可能与皮肤长期接触的材料(接触时间大于30秒)	未在1和2类规定中涵盖的材料,且可能与皮肤短期接触的材料(接触时间小于等于30秒)
BaP含量 (mg/kg)	< 0.2**	1	20
18种 PAHs总量(mg/kg)*	< 0.2**	10	200

### 备注:

\*= 仅物质浓度大于0.2ppm时才用于计算18项PAHs总量

\*\*= 若设计意图为放入口中的材料的测试结果大于1类限值但不超过2类限值,需再依据DIN EN 11866/EN13130及 § 64 LFGB 80.30-1进行PAH的迁移性测试并根据相关食品法规进行判定.

备注: (1) 所示结果为湿样品总重量中的含量.



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