

测试报告 (SVHC)

No. SHAEC1407421532

日期: 2014年05月08日 第1页,共13页

宝山钢铁股份有限公司
上海同济路1800号

以下测试之样品是由申请者所提供及确认: 镀锡普板

SGS工作编号: SP14-012141 - SH

样品接收日期: 2014年04月29日

测试周期: 2014年04月29日 - 2014年05月06日

测试要求: 根据客户要求,

(i) 基于欧洲化学品管理署截止2013年12月16日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151种高关注物质(SVHC)进行筛分测试。

(ii) 基于欧洲化学品管理署于2014年3月3日公布的供授权审议的高关注物质咨询清单(根据欧盟第1907/2006号REACH法规), 对4种高关注物质(SVHC)进行筛分测试。

测试结果: 请参见下一页

总结:

根据具体的测试范围和分析技术, 委托样品中测试的高关注物质浓度都 \leq 0.1%。

通过

通标标准技术服务有限公司

授权签名

Marry Ma 马广媛

批准签署人

本报告是编号为SHAEC1407421531报告的中文版本。



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SGS-通标标准技术服务(上海)有限公司
Testing Center (Shanghai) Co., Ltd.

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679

www.sgsgroup.com.cn

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

HL: (86-21) 61402594 HL: (86-21) 54500353

e sgs.china@sgs.com

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备注:

- (1) 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件, 利用现有的分析技术完成的。

<http://echa.europa.eu/web/guest/candidate-list-table>

这些文件清单由欧洲化学品管理署评估, 将来可能会有变化。

- (2) 关于物品:

根据欧盟第1907/2006 (EC) 号法规, 如果满足以下两个条件, 如果物质符合第57条中的标准并根据第59条第一款被确定, 物品的任何欧洲制造商或进口商应根据第7条第4款向欧盟化学品管理署进行通报: (a) 候选清单中的物质在物品中的总含量超过1吨/年/生产商或进口商; (b) 候选清单中的物质在物品中的总含量以质量分数计超过0.1% 的浓度。

欧盟第1907/2006 (EC) 号法规第33条规定, 含有满足第57条中的标准并根据第59条第一款被确定且质量分数大于0.1%的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品使用安全, 这些信息至少包括含有的候选清单中物质的名称。

SGS采用ECHA对物品中SVHC的解释, 除非另有说明。详细的解释请见下列网址:

http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf

- (3) 关于材料:

报告中的测试结果是基于测试样品。如样品是均一材质, 当其构成成品时, 此结果不能代表成品中的SVHC浓度。如样品为均一材质等比例合测, 这些材质也可能来自不同的物品。

如果样品是一种物质或混合物, 并且直接出口到欧盟, 客户有责任遵守欧盟第1907/2006号REACH法规第31条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。

- (4) 关于物质和配制品:

如果样品中高关注物质的浓度超过0.1% (w/w) 和/或欧盟第1272/2008号CLP法规和欧盟委员会条例第790/2009号中设定的特殊浓度限值, 建议客户根据欧盟第1907/2006号REACH法规对有关高关注物质准备安全数据表(SDS)以符合供应链传递信息的义务, 如:

- 根据欧盟第1272/2008号CLP法规被列为有害物质。

- 根据危险混合物指令1999/45/EC或欧盟第1272/2008号CLP法规被列为危险混合物, 而其浓度大于或等于危险混合物指令1999/45/EC第3条(3)中规定的限制数值或欧盟第1272/2008号CLP法规附件六第3部分列出的较低值;或

- 根据危险混合物指令1999/45/EC并未列为危险混合物, 但包含:

(a) 对人类健康或环境有害的物质, 而在固体或液体混合物 (即非气体混合物) 中其浓度 $\geq 1\%$ (w/w) 或在气体混合物中占体积 $\geq 0.2\%$, 或

(b) PBT或vPvB物质, 在固体或液体混合物 (即非气体混合物) 中浓度 $\geq 0.1\%$ (w/w), 或

(c) 授权审议的高关注物质候选清单上的物质 (除上述以外的原因) 在非气体混合物中的浓度 $\geq 0.1\%$ (w/w), 或



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SGS-Standard Technical Services (Shanghai) Co., Ltd.
Testing Center

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

HL: (86-21) 61402594 HL: (86-21) 54500353 e sgs.china@sgs.com

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(d) 设有欧洲范围内工作场所接触限值的物质。

(5) 如果样品中SVHC的测试结果超过报告限, 建议客户进一步定量分析检测含有SVHC的组分并且得到SVHC物质的准确浓度。

测试样品:

测试样品描述:

| 样品编号 | SGS样品ID | 描述 |
|------|------------------|--------|
| SN1 | SHA14-074215.073 | 银灰色金属板 |

测试方法:

SGS内部方法-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, 采用 ICP-OES、UV-VIS、GC-MS、HPLC-DAD/MS 和比色法分析。



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日期: 2014年05月08日 第4页,共13页

测试结果: (SVHC候选清单中的高关注物质)

| 批次 | 物质名称 | CAS No. | 073 浓度 (%) | RL (%) |
|----|-----------------|---------|---------------|--------|
| - | 所有测试的候选清单中的SVHC | - | ND | - |

测试结果: (SVHC咨询清单中的高关注物质)

| 批次 | 物质名称 | CAS No. | 073 浓度 (%) | RL (%) |
|----|-----------------|---------|---------------|--------|
| - | 所有测试的咨询清单中的SVHC | - | ND | - |

注释:

- 上表仅显示检出的SVHC, 低于RL的SVHC没有列出。所有测试的SVHC请参见附录
- RL = 报告极限值, 所有RL是基于均一材质的测试。
ND = 未检出 (< RL), ND针对SVHC物质。
- △六溴环十二烷(HBCDD) 的非对映异构体α-HBCDD、β-HBCDD、γ-HBCDD的CAS NO分别为134237-50-6, 134237-51-7, 134237-52-8。
☆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的CAS No: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; 及其EC No: 247-094-1, 243-072-0, 256-356-4, 260-566-1。
- * 测试结果是由选定的元素或标记物的结果并基于最坏的情况计算得出。详细信息请参见SGS REACH网站: www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm
硼化合物的结果由ICP-OES测试的水提取的硼元素结果换算得出。
RL = 0.005% 是针对元素(例如钴、砷、铅、铬(VI)、铝、镉、镱、锌、铈、钛、钡和镉), 除了钨的RL= 0.0005%, 硼的RL= 0.0025%(仅对四氟硼酸钨)。
- § 只有当物质包含米氏酮(CAS No.: 90-94-8) 或米氏碱(CAS No.: 101-61-1) 的浓度≥ 0.1%(w / w) 的情况下, 该物质才被提议定为SVHC。



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附录

所有测试的SVHC:

| 批次 | 序号 | 物质名称 | CAS No. | RL (%) |
|----|----|------------------------------------------------------------------------------------|---------------------------|--------|
| I | 1 | 4,4'-二氨基二苯甲烷(MDA) | 101-77-9 | 0.050 |
| I | 2 | 2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香) | 81-15-2 | 0.050 |
| I | 3 | C10-13 氯代烃(短链氯化石蜡) | 85535-84-8 | 0.050 |
| I | 4 | 蒽 | 120-12-7 | 0.050 |
| I | 5 | 邻苯二甲酸丁苄酯(BBP) | 85-68-7 | 0.050 |
| I | 6 | 邻苯二甲酸二(2-乙基己基)酯(DEHP) | 117-81-7 | 0.050 |
| I | 7 | 氧化双三丁基锡(TBTO) | 56-35-9 | 0.050 |
| I | 8 | 二氯化钴* | 7646-79-9 | 0.005 |
| I | 9 | 五氧化二砷* | 1303-28-2 | 0.005 |
| I | 10 | 三氧化二砷* | 1327-53-3 | 0.005 |
| I | 11 | 邻苯二甲酸二丁酯(DBP) | 84-74-2 | 0.050 |
| I | 12 | 六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD) Δ | 25637-99-4, 3194- 55-6 | 0.050 |
| I | 13 | 砷酸氢铅* | 7784-40-9 | 0.005 |
| I | 14 | 重铬酸钠* | 7789-12-0, 10588-01-9 | 0.005 |
| I | 15 | 三乙基砷酸酯* | 15606-95-8 | 0.005 |
| II | 16 | 2,4-二硝基甲苯 | 121-14-2 | 0.050 |
| II | 17 | 丙烯酰胺 | 79-06-1 | 0.050 |
| II | 18 | 蒽油* | 90640-80-5 | 0.050 |
| II | 19 | 蒽油, 蒽糊* | 90640-81-6 | 0.050 |
| II | 20 | 蒽油, 蒽糊, 蒽馏分* | 91995-15-2 | 0.050 |



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t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
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附录

所有测试的SVHC:

| 批次 | 序号 | 物质名称 | CAS No. | RL (%) |
|-----|----|---------------------------|----------------------------------------|--------|
| II | 21 | 葱油, 葱糊, 轻油* | 91995-17-4 | 0.050 |
| II | 22 | 葱油, 含葱量少* | 90640-82-7 | 0.050 |
| II | 23 | 邻苯二甲酸二异丁酯 | 84-69-5 | 0.050 |
| II | 24 | 铬酸铅* | 7758-97-6 | 0.005 |
| II | 25 | 钼铬红(C.I.颜料红104)* | 12656-85-8 | 0.005 |
| II | 26 | 铅铬黄(C.I.颜料黄34)* | 1344-37-2 | 0.005 |
| II | 27 | 沥青, 煤焦油, 高温* | 65996-93-2 | 0.050 |
| II | 28 | 磷酸三(2-氯乙基)酯 | 115-96-8 | 0.050 |
| III | 29 | 重铬酸铵* | 7789-09-5 | 0.005 |
| III | 30 | 硼酸* | 10043-35-3, 11113-50-1 | 0.005 |
| III | 31 | 无水四硼酸钠* | 1303-96-4, 1330-43-4, 12179-04-3 | 0.005 |
| III | 32 | 铬酸钾* | 7789-00-6 | 0.005 |
| III | 33 | 重铬酸钾* | 7778-50-9 | 0.005 |
| III | 34 | 铬酸钠* | 7775-11-3 | 0.005 |
| III | 35 | 水合硼酸钠* | 12267-73-1 | 0.005 |
| III | 36 | 三氯乙烯 | 79-01-6 | 0.050 |
| IV | 37 | 乙二醇乙醚 | 110-80-5 | 0.050 |
| IV | 38 | 乙二醇单甲醚 | 109-86-4 | 0.050 |
| IV | 39 | 铬酸, 铬酸及重铬酸低聚物, 重铬酸* | 7738-94-5 - 13530-68-2 | 0.005 |



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t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgs.com.cn
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|----|----|-----------------------------|-----------------------------|--------|
| IV | 40 | 三氧化铬* | 1333-82-0 | 0.005 |
| IV | 41 | 碳酸钴* | 513-79-1 | 0.005 |
| IV | 42 | 乙酸钴* | 71-48-7 | 0.005 |
| IV | 43 | 硝酸钴* | 10141-05-6 | 0.005 |
| IV | 44 | 硫酸钴* | 10124-43-3 | 0.005 |
| V | 45 | 1,2,3-三氯丙烷 | 96-18-4 | 0.050 |
| V | 46 | 1,2-苯二酸-二(C6-8支链)烷基酯(富C7) | 71888-89-6 | 0.050 |
| V | 47 | 1,2-苯二酸-二(C7-11支链与直链)烷基(醇)酯 | 68515-42-4 | 0.050 |
| V | 48 | 1-甲基-2-吡咯烷酮 | 872-50-4 | 0.050 |
| V | 49 | 乙二醇乙醚醋酸酯 | 111-15-9 | 0.050 |
| V | 50 | 联氨 | 7803-57-8, 302-01-2 | 0.050 |
| V | 51 | 铬酸铯* | 7789-06-2 | 0.005 |
| VI | 52 | 1,2-二氯乙烷 | 107-06-2 | 0.050 |
| VI | 53 | 4,4'-二氨基-3,3'-二氯二苯甲烷 | 101-14-4 | 0.050 |
| VI | 54 | 2-甲氧基苯胺 | 90-04-0 | 0.050 |
| VI | 55 | 对特辛基苯酚 | 140-66-9 | 0.050 |
| VI | 56 | 硅酸铝耐火陶瓷纤维* | 650-017-00-8 (Index no.) | 0.005 |
| VI | 57 | 砷酸* | 7778-39-4 | 0.005 |
| VI | 58 | 二乙二醇二甲醚 | 111-96-6 | 0.050 |
| VI | 59 | 邻苯二甲酸二甲氧基乙酯 | 117-82-8 | 0.050 |



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Testing Center

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中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
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测试报告 (SVHC)

No. SHAEC1407421532

日期: 2014年05月08日 第8页,共13页

附录

所有测试的SVHC:

| 批次 | 序号 | 物质名称 | CAS No. | RL (%) |
|-----|----|---------------------------|--------------------------|--------|
| VI | 60 | 砷酸钙* | 7778-44-1 | 0.005 |
| VI | 61 | 铬酸铬* | 24613-89-6 | 0.005 |
| VI | 62 | 甲醛与苯胺的低聚物 | 25214-70-4 | 0.050 |
| VI | 63 | 叠氮化铅* | 13424-46-9 | 0.005 |
| VI | 64 | 苦味酸铅* | 6477-64-1 | 0.005 |
| VI | 65 | 史蒂芬酸铅* | 15245-44-0 | 0.005 |
| VI | 66 | N,N-二甲基乙酰胺 | 127-19-5 | 0.050 |
| VI | 67 | 氢氧化铬酸锌* | 49663-84-5 | 0.005 |
| VI | 68 | 酚酞 | 77-09-8 | 0.050 |
| VI | 69 | 氢氧化铬酸锌钾* | 11103-86-9 | 0.005 |
| VI | 70 | 砷酸铅* | 3687-31-8 | 0.005 |
| VI | 71 | 氧化锆硅酸铝耐火陶瓷纤维* | 650-017-00-8 (Index no.) | 0.005 |
| VII | 72 | C.I.碱性蓝26§ | 2580-56-5 | 0.050 |
| VII | 73 | C.I.碱性紫3§ | 548-62-9 | 0.050 |
| VII | 74 | 三乙二醇二甲醚(TEGDME) | 112-49-2 | 0.050 |
| VII | 75 | 乙二醇二甲醚(EGDME) | 110-71-4 | 0.050 |
| VII | 76 | 4,4'-二(二甲氨基)二苯甲酮(米氏酮) | 90-94-8 | 0.050 |
| VII | 77 | 4,4'-二(二甲氨基)-4''-甲氨基三苯甲醇§ | 561-41-1 | 0.050 |
| VII | 78 | 三氧化二硼* | 1303-86-2 | 0.005 |
| VII | 79 | 甲酰胺 | 75-12-7 | 0.050 |



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Testing Center (Shanghai) Co., Ltd.

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
HL: (86-21) 61402594 HL: (86-21) 54500353 e sgs.china@sgs.com

测试报告
(SVHC)

No. SHAEC1407421532

日期: 2014年05月08日 第9页,共13页

附录

所有测试的SVHC:

| 批次 | 序号 | 物质名称 | CAS No. | RL (%) |
|------|----|-------------------------------------------------------------------|-------------|--------|
| VII | 80 | 甲基磺酸铅* | 17570-76-2 | 0.005 |
| VII | 81 | N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱) | 101-61-1 | 0.050 |
| VII | 82 | 1,3,5-三(环氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H, 3H,5H)-三酮(TGIC) | 2451-62-9 | 0.050 |
| VII | 83 | C.I.溶剂蓝4§ | 6786-83-0 | 0.050 |
| VII | 84 | 1,3,5-三-[(2S和2R)-2,3-环氧丙基]-1,3,5-三嗪-2,4,6-(1H, 3H, 5H)-三酮(β-TGIC) | 59653-74-6 | 0.050 |
| VIII | 85 | 二盐基邻苯二甲酸铅* | 69011-06-9 | 0.005 |
| VIII | 86 | 1,2-苯二酸-二(支链与直链)戊基酯 | 84777-06-0 | 0.050 |
| VIII | 87 | 乙二醇二乙醚 | 629-14-1 | 0.050 |
| VIII | 88 | 1-溴丙烷 | 106-94-5 | 0.050 |
| VIII | 89 | 3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷 | 143860-04-2 | 0.050 |
| VIII | 90 | 对特辛基苯酚乙氧基醚 | - | 0.050 |
| VIII | 91 | 4,4'-二氨基-3,3'-二甲基二苯甲烷 | 838-88-0 | 0.050 |
| VIII | 92 | 4,4'-二氨基二苯醚及其盐 | 101-80-4 | 0.050 |
| VIII | 93 | 4-氨基偶氮苯 | 60-09-3 | 0.050 |
| VIII | 94 | 2,4-二氨基甲苯 | 95-80-7 | 0.050 |
| VIII | 95 | 4-壬基(支链与直链)苯酚 | - | 0.050 |
| VIII | 96 | 2-甲氧基-5-甲基苯胺 | 120-71-8 | 0.050 |
| VIII | 97 | 碱式乙酸铅* | 51404-69-4 | 0.005 |
| VIII | 98 | 4-氨基联苯 | 92-67-1 | 0.050 |
| VIII | 99 | 十溴二苯醚(DecaBDE) | 1163-19-5 | 0.050 |



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Testing Center (Zhejiang) Service, No. 889 Yishan Road Xuhui District, Shanghai China 200233

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

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测试报告
(SVHC)

No. SHAEC1407421532

日期: 2014年05月08日 第10页,共13页

附录

所有测试的SVHC:

| 批次 | 序号 | 物质名称 | CAS No. | RL (%) |
|------|-----|---------------------------------------------------|---------------------------------|--------|
| VIII | 100 | 环己烷-1,2-二羧酸酐,顺式-环己烷-1,2-二羧酸酐,反式-环己烷-1,2-二羧酸酐 | 85-42-7, 13149-00-3, 14166-21-3 | 0.050 |
| VIII | 101 | 偶氮二甲酰胺 | 123-77-3 | 0.050 |
| VIII | 102 | 二丁基二氯化锡(DBTC) | 683-18-1 | 0.050 |
| VIII | 103 | 硫酸二乙酯 | 64-67-5 | 0.050 |
| VIII | 104 | 邻苯二甲酸二异戊酯 | 605-50-5 | 0.050 |
| VIII | 105 | 硫酸二甲酯 | 77-78-1 | 0.050 |
| VIII | 106 | 地乐酚 | 88-85-7 | 0.050 |
| VIII | 107 | 双(十八烷基)二氧化三铅* | 12578-12-0 | 0.005 |
| VIII | 108 | C16-18-脂肪酸铅* | 91031-62-8 | 0.005 |
| VIII | 109 | 呋喃 | 110-00-9 | 0.050 |
| VIII | 110 | 全氟十一烷酸 | 2058-94-8 | 0.050 |
| VIII | 111 | 全氟十四烷酸 | 376-06-7 | 0.050 |
| VIII | 112 | 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 | ☆ | 0.050 |
| VIII | 113 | 四氟硼酸铅* | 13814-96-5 | 0.005 |
| VIII | 114 | 氨基氰铅盐* | 20837-86-9 | 0.005 |
| VIII | 115 | 硝酸铅* | 10099-74-8 | 0.005 |
| VIII | 116 | 一氧化铅* | 1317-36-8 | 0.005 |
| VIII | 117 | 碱式硫酸铅* | 12036-76-9 | 0.005 |
| VIII | 118 | 四氧化三铅* | 1314-41-6 | 0.005 |
| VIII | 119 | 钛酸铅* | 12060-00-3 | 0.005 |



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中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
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测试报告 (SVHC)

No. SHAEC1407421532

日期: 2014年05月08日 第11页,共13页

附录

所有测试的SVHC:

| 批次 | 序号 | 物质名称 | CAS No. | RL (%) |
|------|-----|-------------------|-------------|--------|
| VIII | 120 | 钛酸铅铅* | 12626-81-2 | 0.005 |
| VIII | 121 | 甲氧基乙酸 | 625-45-6 | 0.050 |
| VIII | 122 | 1,2-环氧丙烷 | 75-56-9 | 0.050 |
| VIII | 123 | N,N-二甲基甲酰胺 | 68-12-2 | 0.050 |
| VIII | 124 | N-甲基乙酰胺 | 79-16-3 | 0.050 |
| VIII | 125 | 邻苯二甲酸正戊基异戊基酯 | 776297-69-9 | 0.050 |
| VIII | 126 | 邻-氨基偶氮甲苯 | 97-56-3 | 0.050 |
| VIII | 127 | 2-氨基甲苯 | 95-53-4 | 0.050 |
| VIII | 128 | 全氟十三烷酸 | 72629-94-8 | 0.050 |
| VIII | 129 | 硫酸四氧化五铅* | 12065-90-6 | 0.005 |
| VIII | 130 | 铅锑黄* | 8012-00-8 | 0.005 |
| VIII | 131 | 掺杂铅的硅酸钡* | 68784-75-8 | 0.005 |
| VIII | 132 | 硅酸铅* | 11120-22-2 | 0.005 |
| VIII | 133 | 二碱式亚硫酸铅* | 62229-08-7 | 0.005 |
| VIII | 134 | 四乙基铅* | 78-00-2 | 0.005 |
| VIII | 135 | 硫酸三氧化四铅* | 12202-17-4 | 0.005 |
| VIII | 136 | 全氟十二烷酸 | 307-55-1 | 0.050 |
| VIII | 137 | 碱式碳酸铅* | 1319-46-6 | 0.005 |
| VIII | 138 | 二碱式亚磷酸铅* | 12141-20-7 | 0.005 |
| IX | 139 | 4-壬基(支链与直链)苯酚乙氧基醚 | - | 0.050 |
| IX | 140 | 全氟辛酸铵(APFO) | 3825-26-1 | 0.050 |



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t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
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测试报告
(SVHC)

No. SHAEC1407421532

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附录

所有测试的SVHC:

| 批次 | 序号 | 物质名称 | CAS No. | RL (%) |
|----|-----|------------------|------------|--------|
| IX | 141 | 氧化镉* | 1306-19-0 | 0.005 |
| IX | 142 | 镉* | 7440-43-9 | 0.005 |
| IX | 143 | 邻苯二甲酸二正戊酯(DPP) | 131-18-0 | 0.050 |
| IX | 144 | 全氟辛酸(PFOA) | 335-67-1 | 0.050 |
| X | 145 | 硫化镉* | 1306-23-6 | 0.005 |
| X | 146 | 邻苯二甲酸二正己酯 | 84-75-3 | 0.050 |
| X | 147 | C.I.直接红28 | 573-58-0 | 0.050 |
| X | 148 | C.I.直接黑38 | 1937-37-7 | 0.050 |
| X | 149 | 2-巯基咪唑啉 | 96-45-7 | 0.050 |
| X | 150 | 乙酸铅* | 301-04-2 | 0.005 |
| X | 151 | 磷酸三二甲苯酯 | 25155-23-1 | 0.050 |
| / | 152 | 邻苯二甲酸二(支链与直链)己基酯 | 68515-50-4 | 0.050 |
| / | 153 | 氯化镉* | 10108-64-2 | 0.005 |
| / | 154 | 水合过硼酸钠* | - | 0.005 |
| / | 155 | 过硼酸钠* | 7632-04-4 | 0.005 |



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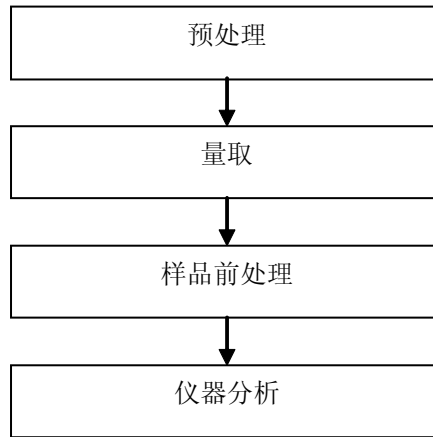
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3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
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t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
HL: (86-21) 61402594 HL: (86-21) 54500353 e sgs.china@sgs.com

SVHC 测试流程图

- 1) 分析人员: 黄慧丽 / 冯彬彬
- 2) 项目负责人: 余锦晖



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