



检测报告 Test Report

报告编号 A2210018833102001E
Report No. A2210018833102001E

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报告抬头公司名称 昆山华艺铜业有限公司
Company Name KUNSHAN HUAYICOPPER PRODUCTS CO,LTD
shown on Report
地址 江苏省昆山市淀山湖镇北苑路 68 号
Address NO,68BEYUANROAD,DIANSHANLAKE TOWN,KUNSHAN CITY JIANGSU

以下测试之样品及样品信息由申请者提供并确认
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 裸铜线
Sample Name Bare copper wire
样品型号 0.16
Part No. 0.16
样品接收日期 2021.01.15
Sample Received Date Jan. 15, 2021
样品检测日期 2021.01.15-2021.01.23
Testing Period Jan. 15, 2021 to Jan. 23, 2021

检测要求 根据客户要求, 参照法规(EC) No 1907/2006(REACH), 对所提交样品中 71 种高关注物质(SVHC)进行筛选测试。

Test Requested As specified by client, to screen the 71 substances of very high concern (SVHC) under Regulation (EC) No 1907/2006 of REACH in the submitted sample(s).

检测依据/检测结果 请参见下页。

Test Method/Test Result(s) Please refer to the following page(s).

摘要 根据分析结果, 所提交样品中 71 种 SVHC 物质的浓度均小于 0.1%(w/w)。

Summary According to the analytical results, concentrations of 71 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

主检
Tested by 王东

审核
Reviewed by 徐忠娟

批准
Approved by 陈凯敏
陈凯敏
实验室经理 Lab Manager

日期
Date 2021.01.23



上海华测品标检测技术有限公司
Centre Testing International Pinbiao(Shanghai) Co., Ltd.
检验检测专用章
Inspection & Testing Services

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检测结果 Test Result(s)

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	浓度 Concentration (%)	报告 检出限 Report Limit (%)
-	-	所有 SVHC 物质 (见候选清单) All tested SVHC (See the candidate list)	-	-	N.D.	-

检测依据 Test Method:

参考 US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, EN 14582:2016 进行样品预处理。

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, EN 14582:2016 for sample pretreatment.

采用 ICP-OES, UV-Vis, PLM, SEM 及 IC 分析。

Analyzed by ICP-OES, UV-Vis, PLM, SEM and IC.

样品/部位描述 铜色金属丝
Sample/Part Description Cupreous metal wire

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注释 Note:

1. 结果仅显示检出的 SVHC 物质, 低于报告检出限的 SVHC 物质没有列出。所有测试的 SVHC 物质见下页的 SVHC 候选清单。The table of tested result(s) only shows detected SVHC, and SVHC that below Report Limit are not reported. Please refer to the Candidate List of SVHC on next pages.
2. w/w % = 重量百分比 weight by weight; 0.1%=1000mg/kg =1000ppm
3. N.D. = 未检出 Not Detected (小于报告检出限<report limit)
4. *: 该物质的浓度值是由物质中的特征元素测试结果换算而来。Concentration value of the substance by the conversion from the test results of certain elements.
5. **: 在化学物质及其混合物的分类, 标记与包装法规, 即 CLP 法规(法规(EC)No 1272/2008)的附录 VI 中, 索引号 650-017-00-8 适用于所有的耐火陶瓷纤维材料。All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation(Regulation (EC) No 1272/2008).
6. ***: C.I.: 颜料索引号 Colour Index
7. ****: 四硼酸钠, 无水和四硼酸钠, 水合物的浓度均由四硼酸钠浓度表示, 没有考虑结晶水。过硼酸钠, 水合物; 过硼酸钠盐和过硼酸钠, 无水的浓度均由过硼酸钠浓度表示, 没有考虑结晶水。Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.
8. ^①: 由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。当其测试结果 $\geq 0.1\%$ w/w 时, 对于该物质是否存在于样品中需核查相应物料的 MSDS 或向供应商进行确认。In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of their representative compounds for substances. When the content of their representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking MSDS or requesting from suppliers.
9. ^②: 由于此物质含有多种物质, 测试结果是基于此物质中最具有代表性的主要组成化合物的含量, 其主要组成化合物的测试结果是基于特征元素的浓度换算而来。In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of their representative compounds are calculated based on the result of specified heavy metal elements.

备注 Remark:

本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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SVHC候选清单Candidate List of SVHC

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 ReportLimit (%)
I	1	二氯化钴 Cobalt dichloride*	7646-79-9	231-589-4	0.01
I	2	五氧化二砷 Diarsenicpentaoxide*	1303-28-2	215-116-9	0.01
I	3	三氧化二砷 Diarsenic trioxide*	1327-53-3	215-481-4	0.01
I	4	重铬酸钠 Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	0.01
I	5	砷酸氢铅 Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01
I	6	三乙基砷酸酯 Triethyl arsenate*	15606-95-8	427-700-2	0.01
II	7	^② 铬酸铅 Lead chromate	7758-97-6	231-846-0	0.05
II	8	^② 钼铬红(C.I.颜料红 104) Lead chromate molybdatesulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	0.05
II	9	^② 铅铬黄(C.I.颜料黄 34)Lead sulfochromate yellow(C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.05
III	10	硼酸 Boricacid*	10043-35-3 11113-50-1	233-139-2 234-343-4	0.01
III	11	^② 四硼酸钠, 无水 Disodiumtetraborate,anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
III	12	^② 四硼酸钠, 水合物 Tetraborondisodiumheptaoxide,hydrate** ***	12267-73-1	235-541-3	0.01
III	13	铬酸钠 Sodium chromate*	7775-11-3	231-889-5	0.01
III	14	铬酸钾 Potassium chromate*	7789-00-6	232-140-5	0.01
III	15	重铬酸铵 Ammonium dichromate*	7789-09-5	232-143-1	0.01
III	16	重铬酸钾Potassium dichromate*	7778-50-9	231-906-6	0.01
IV	17	硫酸钴 Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01
IV	18	硝酸钴 Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01
IV	19	碳酸钴 Cobalt(II) carbonate*	513-79-1	208-169-4	0.01
IV	20	醋酸钴 Cobalt(II) diacetate*	71-48-7	200-755-8	0.01
IV	21	三氧化铬Chromium trioxide*	1333-82-0	215-607-8	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 ReportLimit (%)
IV	22	①从三氧化铬产生的酸类以及它们的齐聚物：铬酸、重铬酸、铬酸和重铬酸的齐聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	0.01
V	23	铬酸锶 Strontium chromate*	7789-06-2	232-142-6	0.01
VI	24	铬酸铬 Dichromiumtris(chromate)*	24613-89-6	246-356-2	0.01
VI	25	氢氧化铬酸锌钾 Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	0.01
VI	26	氢氧化铬酸锌 Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01
VI	27	②硅酸铝耐火陶瓷纤维 Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	0.05
VI	28	②氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	0.05
VI	29	砷酸 Arsenic acid*	7778-39-4	231-901-9	0.01
VI	30	砷酸钙 Calcium arsenate*	7778-44-1	231-904-5	0.01
VI	31	砷酸铅 Trileadarsenate*	3687-31-8	222-979-5	0.01
VI	32	叠氮化铅 Lead diazide, Lead azide*	13424-46-9	236-542-1	0.01
VI	33	2,4,6-三硝基间苯二酚铅 (别名：收敛酸铅) Lead styphnate*	15245-44-0	239-290-0	0.01
VI	34	苦味酸铅 Lead dipicrate*	6477-64-1	229-335-2	0.01
VII	35	三氧化二硼 Diboron trioxide*	1303-86-2	215-125-8	0.01
VII	36	甲基磺酸铅 Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.01
VIII	37	氧化铅与硫酸铅的复合物 Pentaleadtetraoxidesulphate*	12065-90-6	235-067-7	0.01
VIII	38	双(十八烷基)二氧代三铅 Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01
VIII	39	硝酸铅 Lead dinitrate*	10099-74-8	233-245-9	0.01
VIII	40	三碱式硫酸铅 Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 ReportLimit (%)
VIII	41	氧化铅 Lead monoxide (lead oxide)*	1317-36-8	215-267-0	0.01
VIII	42	钛酸铅 Lead titanium trioxide*	12060-00-3	235-038-9	0.01
VIII	43	碱式乙酸铅 Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01
VIII	44	颜料黄 41 Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01
VIII	45	四乙基铅 Tetraethyllead*	78-00-2	201-075-4	0.01
VIII	46	二盐基邻苯二甲酸铅 [Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.01
VIII	47	氨基氰铅盐 Lead cyanamidate*	20837-86-9	244-073-9	0.01
VIII	48	掺杂铅的硅酸钡 Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.01
VIII	49	磷酸氧化铅 Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01
VIII	50	钛酸铅锆 Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.01
VIII	51	碱式碳酸铅 Trileadbis(carbonate)dihydroxide*	1319-46-6	215-290-6	0.01
VIII	52	C16-18-脂肪酸铅盐 Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01
VIII	53	四氧化三铅 Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.01
VIII	54	二碱式亚硫酸铅(II) Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01
VIII	55	碱式硫酸铅 Lead oxide sulfate*	12036-76-9	234-853-7	0.01
VIII	56	四氟硼酸铅 Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01
VIII	57	硅酸铅 Silicic acid, lead salt*	11120-22-2	234-363-3	0.01
IX	58	镉 Cadmium	7440-43-9	231-152-8	0.01
IX	59	氧化镉 Cadmium oxide*	1306-19-0	215-146-2	0.01
X	60	硫化镉 Cadmium sulphide*	1306-23-6	215-147-8	0.01
X	61	醋酸铅(II) Lead di(acetate)*	301-04-2	206-104-4	0.01
XI	62	氯化镉 Cadmium chloride *	10108-64-2	233-296-7	0.01

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XI	63	^② 过硼酸钠, 水合物; 过硼酸钠盐 Sodium perborate; perboric acid, sodium salt *****	15120-21-5 11138-47-9	239-172-9 234-390-0	0.01
XI	64	^② 过硼酸钠, 无水 Sodium peroxometaborate *****	7632-04-4	231-556-4	0.01
XII	65	氟化镉Cadmium fluoride*	7790-79-6	232-222-0	0.01
XII	66	硫酸镉Cadmium sulphate*	10124-36-4 31119-53-6	233-331-6	0.01
XVIII	67	硝酸镉Cadmium nitrate*	10325-94-7	233-710-6	0.01
XVIII	68	碳酸镉Cadmium carbonate*	513-78-0	208-168-9	0.01
XVIII	69	氢氧化镉Cadmium hydroxide*	21041-95-2	244-168-5	0.01
XIX	70	铅 Lead	7439-92-1	231-100-4	0.01
XIX	71	八硼酸二钠 Disodium octaborate*	12008-41-2	234-541-0	0.01

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附加信息 Appendix:

1. 根据欧盟 REACH 法规（编号 1907/2006）第 33 条款之规定，物品类产品如果含有候选列表上的高度关注物质且在物品中的质量百分比超过 0.1% 时，物品供应方需履行相关信息传递义务：

Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

- 1) 物品供应方应提供给接收方关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) 应消费者请求，物品供应方应在 45 天内免费提供关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. 根据欧盟 REACH 法规（编号 1907/2006）第 31 条款及附件 2 之规定，提供高度关注物质的物质类产品供应方，应免费提供接收方该物质的安全数据表。The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
 3. 根据欧盟 REACH 法规（编号 1907/2006）第 31、32 条款及附件 2 之规定，提供含有高度关注物质的混合物产品供应方需传递相关信息：

The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.

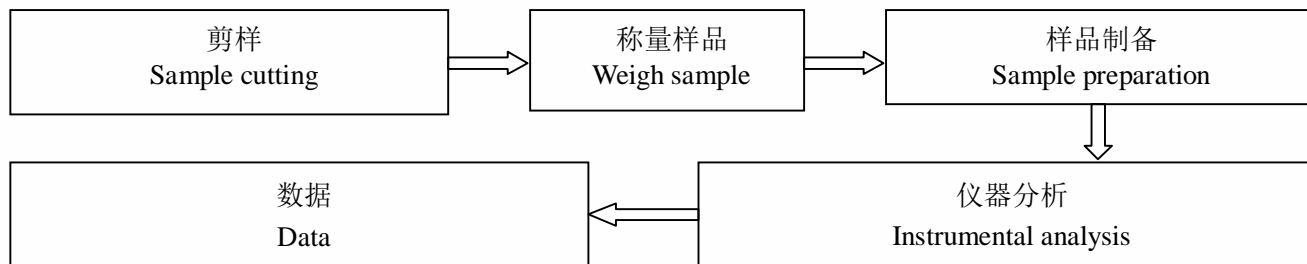
- 1) 如果混合物产品按照 1999/45/EC 被判定为危险品时，供应方应免费提供产品的安全数据表。Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
- 2) 如果混合物产品按照 1999/45/EC 判定并非危险品，但是任一高度关注物质在非气体混合物中质量分数超过 0.1% 或在气体混合物中体积分数超过 0.2%，供应方也应免费提供产品的安全数据表。Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 未经 CTI 书面同意, 不得部分复制本报告;
Without written approval of CTI, this report can't be reproduced except in full;
5. 如检测报告中的英文内容与中文内容有差异, 以中文为准。
In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***

*** End of Report ***

附录 Appendix

客户参考信息 Client Reference Information

0.08/0.10/0.12/0.140/0.143/0.145/0.150/0.156/0.175/0.180/0.190/0.195/0.20/0.24/0.25/0.252/0.254/0.255/0.28/0.29/
0.30/0.305/0.32/0.40/0.405/0.45/0.50/0.60/0.70/0.75/0.80/1.0/1.02

声明 Statement:

附录内容由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性。

The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.