

测试报告

编号.: XMHL1708005109CW

日期:2017年8月25日

页码:第1页,共12页

河南国鑫环保科技有限公司

河南省灵宝市城东产业园

下列样品由客户提供及确认:

产品名称 : 环保石头纸
SGS 参考编号 : CANHG1716459902
型号/货号 : RPD 17081401
生产厂家 : 河南国鑫环保科技有限公司
供应商 : 河南国鑫环保科技有限公司
测试要求 : 根据客户要求选择测试
收样日期 : 2017年8月16日
测试周期 : 2017年8月16日至2017年8月25日
测试结果 : 请见下页

总结:

根据具体的范围和筛分测试, 所提交样品中 SVHC 测试结果 $\leq 0.1\%$ (w/w)。

通过

通标标准技术服务有限公司厦门分公司

授权签名



夏星

授权签字人



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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 采用欧盟法院对 REACH 物品定义的裁定, 除非另有说明。详细的解释请见下列网址:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

- (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
- (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	CAN17-164599.001	白色纸

测试方法:

SGS 内部方法- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, 采用 ICP-OES、UV-VIS、GC-MS、HPLC-DAD/MS 和比色法分析。



测试结果: (SVHC 候选清单中的高关注物质)

批次 物质名称	CAS No.	001 浓度 (%)	RL (%)
- 所有测试的候选清单中的 SVHC	-	ND	-

注释:

- 1.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。
- 2.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。
- 3.* 测试结果是由选定的元素的结果并基于最坏的情况计算得出; ** 测试结果是由选定的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
4. RL = 0.005% 是针对元素 (例如钴、砷、铅、铬 (VI)、铝、锆、硼、锆、镉、锌、铈、钛、钡和镉), 除了钼的 RL= 0.0005%, 硼的 RL= 0.0025%(仅对四氟硼酸铅)。
- (5) 硼化合物的结果由 ICP-OES 测试的总的/水提取的 硼元素结果换算得出。
- 6.Δ 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。
- 7.☆ 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。
- 8.§ 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	0.010
I	2	2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)	81-15-2	0.010
I	3	C10-13 氯代烃(短链氯化石蜡)	85535-84-8	0.010
I	4	蒽	120-12-7	0.010
I	5	邻苯二甲酸丁苄酯(BBP)	85-68-7	0.010
I	6	邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	0.010
I	7	氧化双三丁基锡(TBTO)	56-35-9	0.010
I	8	邻苯二甲酸二丁酯(DBP)	84-74-2	0.010
I	9	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	0.010
II	10	2,4-二硝基甲苯	121-14-2	0.010
II	11	丙烯酰胺	79-06-1	0.010
II	12	葱油**	90640-80-5	0.010
II	13	葱油, 葱糊**	90640-81-6	0.010
II	14	葱油, 葱糊, 葱馏分**	91995-15-2	0.010
II	15	葱油, 葱糊, 轻油**	91995-17-4	0.010
II	16	葱油, 含葱量少**	90640-82-7	0.010
II	17	邻苯二甲酸二异丁酯	84-69-5	0.010
II	18	沥青, 煤焦油, 高温**	65996-93-2	0.010
II	19	磷酸三(2-氯乙基)酯	115-96-8	0.010
III	20	三氯乙烯	79-01-6	0.010
IV	21	乙二醇乙醚	110-80-5	0.010
IV	22	乙二醇单甲醚	109-86-4	0.010
V	23	1,2,3-三氯丙烷	96-18-4	0.010
V	24	1,2-苯二酸-二(C6-8 支链)烷基酯(富 C7)	71888-89-6	0.010
V	25	1,2-苯二酸-二(C7-11 支链与直链)烷基(醇)酯	68515-42-4	0.010
V	26	1-甲基-2-吡咯烷酮	872-50-4	0.010
V	27	乙二醇乙醚醋酸酯	111-15-9	0.010
V	28	联氨	7803-57-8, 302-01-2	0.010



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附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VI	29	1,2-二氯乙烷	107-06-2	0.010
VI	30	4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.010
VI	31	2-甲氧基苯胺	90-04-0	0.010
VI	32	对特辛基苯酚	140-66-9	0.010
VI	33	乙二醇二甲醚	111-96-6	0.010
VI	34	邻苯二甲酸二甲氧基乙酯	117-82-8	0.010
VI	35	甲醛与苯胺的低聚物	25214-70-4	0.010
VI	36	N,N-二甲基乙酰胺	127-19-5	0.010
VI	37	酚酞	77-09-8	0.010
VII	38	C.I.碱性蓝 26§	2580-56-5	0.010
VII	39	C.I.碱性紫 3§	548-62-9	0.010
VII	40	三乙二醇二甲醚(TEGDME)	112-49-2	0.010
VII	41	乙二醇二甲醚(EGDME)	110-71-4	0.010
VII	42	4,4'-二(二甲氨基)二苯甲酮(米氏酮)	90-94-8	0.010
VII	43	4,4'-二(二甲氨基)-4''-甲氨基三苯甲醇§	561-41-1	0.010
VII	44	甲酰胺	75-12-7	0.010
VII	45	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	0.010
VII	46	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	0.010
VII	47	C.I.溶剂蓝 4§	6786-83-0	0.010
VII	48	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	0.010
VIII	49	1,2-苯二酸-二(支链与直链)戊基酯	84777-06-0	0.010
VIII	50	乙二醇二乙醚	629-14-1	0.010
VIII	51	1-溴丙烷	106-94-5	0.010
VIII	52	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.010
VIII	53	对特辛基苯酚乙氧基醚	-	0.010
VIII	54	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.010
VIII	55	4,4'-二氨基二苯醚及其盐	101-80-4	0.010
VIII	56	4-氨基偶氮苯	60-09-3	0.010



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VIII 57 2,4-二氨基甲苯 95-80-7 0.010

附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VIII	58	4-壬基(支链与直链)苯酚	-	0.010
VIII	59	2-甲氧基-5-甲基苯胺	120-71-8	0.010
VIII	60	4-氨基联苯	92-67-1	0.010
VIII	61	十溴二苯醚(DecaBDE)	1163-19-5	0.010
VIII	62	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	0.010
VIII	63	偶氮二甲酰胺	123-77-3	0.010
VIII	64	二丁基氯化锡(DBTC)	683-18-1	0.010
VIII	65	硫酸二乙酯	64-67-5	0.010
VIII	66	邻苯二甲酸二异戊酯	605-50-5	0.010
VIII	67	硫酸二甲酯	77-78-1	0.010
VIII	68	地乐酚	88-85-7	0.010
VIII	69	呋喃	110-00-9	0.010
VIII	70	全氟十一烷酸	2058-94-8	0.010
VIII	71	全氟十四烷酸	376-06-7	0.010
VIII	72	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	☆	0.010
VIII	73	甲氧基乙酸	625-45-6	0.010
VIII	74	1,2-环氧丙烷	75-56-9	0.010
VIII	75	N,N-二甲基甲酰胺	68-12-2	0.010
VIII	76	N-甲基乙酰胺	79-16-3	0.010
VIII	77	邻苯二甲酸正戊基异戊基酯	776297-69-9	0.010
VIII	78	邻-氨基偶氮甲苯	97-56-3	0.010
VIII	79	2-氨基甲苯	95-53-4	0.010
VIII	80	全氟十三烷酸	72629-94-8	0.010
VIII	81	全氟十二烷酸	307-55-1	0.010
IX	82	4-壬基(支链与直链)苯酚乙氧基醚	-	0.010



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IX	83	全氟辛酸铵(APFO)	3825-26-1	0.010
IX	84	邻苯二甲酸二正戊酯(DPP)	131-18-0	0.010
IX	85	全氟辛酸(PFOA)	335-67-1	0.010
X	86	邻苯二甲酸二正己酯	84-75-3	0.010

附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
X	87	C.I.直接红 28	573-58-0	0.010
X	88	C.I.直接黑 38	1937-37-7	0.010
X	89	2-巯基咪唑啉	96-45-7	0.010
X	90	磷酸三二甲苯酯	25155-23-1	0.010
XI	91	邻苯二甲酸二(支链与直链)己基酯	68515-50-4	0.010
XII	92	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV-328)	25973-55-1	0.010
XII	93	2-苯并三唑-2-基-4,6-二叔丁基苯酚 (UV-320)	3846-71-7	0.010
XII	94	二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)	15571-58-1	0.010
XII	95	二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物	-	0.010
XIII	96	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
XIII	97	5-二级丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二级丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合]	-	0.010
XIV	98	1,3-丙磺酸内酯	1120-71-4	0.010
XIV	99	2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚 (UV-327)	3864-99-1	0.010
XIV	100	2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 (UV-350)	36437-37-3	0.010
XIV	101	硝基苯	98-95-3	0.010
XIV	102	全氟壬酸及其钠盐和铵盐	375-95-1,21049-39-8, 4149-60-4	0.010
XV	103	苯并(a)芘	50-32-8	0.010
XVI	104	4,4'-异亚丙基联苯酚(双酚A)	80-05-7	0.010
XVI	105	4-庚基(支链与直链)苯酚	-	0.010



XVI	106	全氟癸酸 (PFDA) 及其钠盐和铵盐	3108-42-7 335-76-2 3830-45-3	0.010
XVI	107	对叔戊基苯酚	80-46-6	0.010
XVII	108	全氟己烷-1-磺酸及其盐	-	0.010
I	109	二氯化钴*	7646-79-9	0.001
I	110	五氧化二砷*	1303-28-2	0.001

附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
I	111	三氧化二砷*	1327-53-3	0.001
I	112	砷酸氢铅*	7784-40-9	0.001
I	113	重铬酸钠*	7789-12-0, 10588-01-9	0.001
I	114	三乙基砷酸酯*	15606-95-8	0.001
II	115	钼铬红(C.I.颜料红 104)*	12656-85-8	0.001
II	116	铬酸铅*	7758-97-6	0.001
II	117	铅铬黄(C.I.颜料黄 34)*	1344-37-2	0.001
III	118	重铬酸铵*	7789-09-5	0.001
III	119	硼酸*	10043-35-3, 11113-50-1	0.001
III	120	无水四硼酸钠*	1303-96-4, 1330-43-4, 12179-04-3	0.001
III	121	铬酸钾*	7789-00-6	0.001
III	122	重铬酸钾*	7778-50-9	0.001
III	123	铬酸钠*	7775-11-3	0.001
III	124	水合硼酸钠*	12267-73-1	0.001
IV	125	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	7738-94-5 - 13530-68-2	0.001
IV	126	三氧化铬*	1333-82-0	0.001



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IV	127	碳酸钴*	513-79-1	0.001
IV	128	乙酸钴*	71-48-7	0.001
IV	129	硝酸钴*	10141-05-6	0.001
IV	130	硫酸钴*	10124-43-3	0.001
V	131	铬酸锶*	7789-06-2	0.001
VI	132	硅酸铝耐火陶瓷纤维*	650-017-00-8 (Index no.)	0.001
VI	133	砷酸*	7778-39-4	0.001
VI	134	砷酸钙*	7778-44-1	0.001
VI	135	铬酸铬*	24613-89-6	0.001

附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VI	136	叠氮化铅*	13424-46-9	0.001
VI	137	苦味酸铅*	6477-64-1	0.001
VI	138	史蒂芬酸铅*	15245-44-0	0.001
VI	139	氢氧化铬酸锌*	49663-84-5	0.001
VI	140	氢氧化铬酸锌钾*	11103-86-9	0.001
VI	141	砷酸铅*	3687-31-8	0.001
VI	142	氧化锆硅酸铝耐火陶瓷纤维*	650-017-00-8 (Index no.)	0.001
VII	143	三氧化二硼*	1303-86-2	0.001
VII	144	甲基磺酸铅*	17570-76-2	0.001
VIII	145	二盐基邻苯二甲酸铅*	69011-06-9	0.001
VIII	146	碱式乙酸铅*	51404-69-4	0.001
VIII	147	双(十八烷基)二氧化三铅*	12578-12-0	0.001
VIII	148	C16-18-脂肪酸铅*	91031-62-8	0.001
VIII	149	四氟硼酸铅*	13814-96-5	0.001
VIII	150	氨基氰铅盐*	20837-86-9	0.001
VIII	151	硝酸铅*	10099-74-8	0.001
VIII	152	一氧化铅*	1317-36-8	0.001



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VIII	153	碱式硫酸铅*	12036-76-9	0.001
VIII	154	四氧化三铅*	1314-41-6	0.001
VIII	155	钛酸铅*	12060-00-3	0.001
VIII	156	钛酸铅锆*	12626-81-2	0.001
VIII	157	硫酸四氧化五铅*	12065-90-6	0.001
VIII	158	铅锑黄*	8012-00-8	0.001
VIII	159	掺杂铅的硅酸钡*	68784-75-8	0.001
VIII	160	硅酸铅*	11120-22-2	0.001
VIII	161	二碱式亚硫酸铅*	62229-08-7	0.001
VIII	162	四乙基铅*	78-00-2	0.001
VIII	163	硫酸三氧化四铅*	12202-17-4	0.001
VIII	164	碱式碳酸铅*	1319-46-6	0.001

附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VIII	165	二碱式亚磷酸铅*	12141-20-7	0.001
IX	166	氧化镉*	1306-19-0	0.001
IX	167	镉*	7440-43-9	0.001
X	168	硫化镉*	1306-23-6	0.001
X	169	乙酸铅*	301-04-2	0.001
XI	170	氯化镉*	10108-64-2	0.001
XI	171	水合过硼酸钠*	-	0.001
XI	172	过硼酸钠*	7632-04-4	0.001
XII	173	氟化镉*	7790-79-6	0.001
XII	174	硫酸镉*	10124-36-4, 31119-53-6	0.001

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