

Test Report

號碼(No.): CR/2010/30130

日期(Date): 2010/03/16

頁數: 1 of 16

日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD. 桃園縣觀音工業區國建三路5號 5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

identified by/on behalf of 樣品名稱(Sample Description)) : 塗佈紙類 (COATED PAPER) : 超雪銅,超特銅,頂級銅西卡) : 2010/03/05
測試需求(Test Requested)	: 29項高關注物質(SVHC)篩檢以及額外的"丙烯醯胺"是依客户特定要求. 高關注物質(SVHC) 第二版候選清單是根據歐洲化學總署(ECHA)於2010年1月13日,就關於REACH之Regulation (EC) No 1907/2006的公告。/ 29 Substances of Very High Concern (SVHC) screening in addition of Acrylamide by specific client's request. SVHC candidate list of the second version based on the publication by European Chemicals Agency (ECHA) on 2010 January 13, regarding Regulation (EC) No 1907/2006 concerning the REACH.
測試方法(Test Method)	: 請見下一頁 (Please refer to next pages).
測試結果(Test Results)	: 請見下一頁 (Please refer to next pages).
總結(Summary)	: 根據指定規範和分析技術,送測樣品在現今報告限值下,高關注物質(SVHC)的濃度均小於 0.1% (According to the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s))。

Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD. Chemical Laboratory – Taipei

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<u>測試樣品(Test Sample):</u> 白色紙 (WHITE PAPER)

测試方法:

參照SGS內部方法RSTS-EE-SVHC-002. 由感應耦合電漿原子發射光譜儀,紫外光可見光譜儀,氣相層析儀質譜儀,液相層析質 譜儀和氣相層析儀/火焰光度偵測器進行分析。(SGS In-House method-RSTS-EE-SVHC-002. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS and GC/FPD.)

備註:

1. 29項SVHC化學分析,依歐洲化學總署(ECHA)於2010年1月13日所公佈的清單,藉由現有的分析技術進行篩檢。這清單是由 ECHA所評估且未來可受更改。(The chemical analysis of 29 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2010 January 13. This list is under evaluation by ECHA and may subject to change in the future.)

請參照(refer to) http://echa.europa.eu/doc/press/pr_10_01_candidate_list_20100113.pdf

 2. 根據Regulation (EC) No 1907/2006 中第7條款第2項之規定,如果物質合乎第57條款之標準以及可依據第59(1)條之規 定鑑別,且同時符合下列兩項狀況,任何成品之製造人和進口人應向歐洲化學總署(ECHA)通報:
 (a)成品中所含物質每年超過1公噸。

(b) 依重量百分比計算,物質濃度超過0.1%。

In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation,

if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).

- 3. Regulation (EC) No 1907/2006中第 33 條要求成品供應商,其成品所含物質符合第57條款的標準並依照第59(1)條款確 定其濃度大於0.1wt%,應提供成品接受者充份可取得資訊,以確保成品的安全使用(至少包括物質的名稱)。 Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.
- 4. 倘若SVHC超過限值,建議客户確認含有該SVHC的零件,並要求實驗室進一步的定量分析而取得SVHC的確切濃度。 If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

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日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD. 桃園縣觀音工業區國建三路5號 5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

<u>測試結果 (Test Results)</u>

物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限値 (RL)	分類 (Classification)
蒽 / Anthracene (CAS No.: 000120-12-7)	%	n.d.	0.005	長期生物蓄積性及毒性物質 (PBT)
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane (CAS No.: 000101-77- 9)	%	n.d.	0.005	致癌物質 類别 2 (Carcinogen Category 2)
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	n.d.	0.005	對生殖系統有害 類别2 (Toxic to Reproduction Category 2)
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	n.d.	0.005	對生殖系統有害 類别2 (Toxic to Reproduction Category 2)
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2- ethylhexyl) phthalate) (CAS No.: 000117-81- 7)	%	n.d.	0.005	對生殖系統有害 類别2 (Toxic to Reproduction Category 2)
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 000081-15- 2)	%	n.d.	0.005	高持久性和高生物蓄積性物質 (vPvB)
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 025637-99-4 and 003194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	%	n.d.	0.005	長期生物蓄積性及毒性物質 (PBT)
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	%	n.d.	0.01	長期生物蓄積性及毒性物質 (PBT)
三丁基錫氧化物 / Bis(tributyltin)oxide*** (CAS No.: 000056-35-9)	%	n.d.	-	長期生物蓄積性及毒性物質 (PBT)
二氯化鈷 / Cobalt dichloride (CAS No.: 007646-79-9)	%	n.d.	0.005	致癌物質 類别 2 (Carcinogen Category 2)
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 001303-28-2)	%	n.d.	-	致癌物質 類别 1 (Carcinogen Category 1)

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日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD.

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5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限値 (RL)	分類 (Classification)
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 001327-53-3)	%	n.d.	-	致癌物質 類别 1 (Carcinogen Category 1)
三乙基砷酸鹽 / Triethyl arsenate***(CAS No.: 015606-95-8)	%	n.d.	-	致癌物質 類别 1 (Carcinogen Category 1)
砷酸氫鉛 / Lead hydrogen arsenate*** (CAS No.: 007784-40-9)	%	n.d.	-	致癌物質 類别 1; 對生殖系統有 害 類别1 (Carcinogen Category 1; Toxic to Reproduction Category 1)
重络酸鈉 / Sodium dichromate*** (CAS No.: 010588-01-9(*))	%	n.d.	-	致癌物質 類别2; 導致基因突變 類别2; 對生殖系統有害 類别2 (Carcinogen Category 2; Mutagen Category 2; Toxic to Reproduction Category 2)
蔥油 / Anthracene oil (CAS No.: 090640-80- 5) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
蔥油, 蔥糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights (CAS No.: 091995-17-4) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
蔥油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 091995-15-2) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
蔥油, 含蒽量少 / Anthracene oil, anthracene-low (CAS No.: 090640-82-7) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
蔥油, 蔥糊 / Anthracene oil, anthracene paste (CAS No.: 090640-81-6) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
煤瀝青, 高溫 / Pitch, coal tar, high-temp. (CAS No.: 065996-93-2) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
矽酸鋁,耐火陶瓷纖維 / Aluminiosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	致癌物質 類别 2 (Carcinogen Category 2)

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日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD.

桃園縣觀音工業區國建三路5號

5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限値 (RL)	分類 (Classification)
鋯矽酸鋁,耐火陶瓷纖維 / Zirconia	%	n.d.	0.05	致癌物質 類别 2
Aluminosilicate, Refractory Ceramic Fibres				(Carcinogen Category 2)
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl	%	n.d.	0.005	對生殖系統有害 類别2
phthalate) (CAS No.: 000084-69-5)				(Toxic to Reproduction
				Category 2)
2,4-二硝基甲苯 / 2,4-Dinitrotoluene (CAS	%	n.d.	0.005	致癌物質 類別 2
No.: 000121-14-2)				(Carcinogen Category 2)
磷酸三 (2-氯乙基)酯 / Tris(2-chloroethyl)	%	n.d.	0.005	對生殖系統有害 類别2
phosphate (TCEP) (CAS No.: 000115-96-8)				(Toxic to Reproduction
				Category 2)
鉻酸鉛 / Lead chromate (CAS No.: 007758-97-	%	n.d.	0.01	致癌物質 類别 2; 對生殖系統有
6)				害 類别1 (Carcinogen Category
				2; Toxic to Reproduction
				Category 1)
鉬鉻紅;顏色索引: 顏料紅半104 / Lead	%	n.d.	0.01	致癌物質 類别 2; 對生殖系統有
chromate molybdate sulphate red (C.I.				害 類别1 (Carcinogen Category
Pigment Red 104) (CAS No.: 012656-85-8)				2; Toxic to Reproduction
				Category 1)
鉻酸鉛;顏色索引:顏料黃34 / Lead	%	n.d.	0.01	致癌物質 類别 2; 對生殖系統有
sulfochromate yellow (C.I. Pigment Yellow				害 類别1 (Carcinogen Category
34) (CAS No.: 001344-37-2)				2; Toxic to Reproduction
				Category 1)

除歐洲化學總署(ECHA)於2010年01月13日所公告的SVHC範圍外, 客户要求以下額外的篩檢(Additional screening by client's request outside the scope of SVHC as published by ECHA on 2010 January 13):

物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限値 (RL)	分類 (Classification)
丙烯醯胺 / Acrylamide (CAS No.: 000079-06- 1)	%	n.d.		致癌物質 類别2; 導致基因突變 類别2 (Carcinogen Category 2; Mutagen Category 2)

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日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD. 桃園縣觀音工業區國建三路5號

5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d.= not detected = below Reporting Limit / 未檢出
- 3. RL = Reporting Limit / 報告極限值
- 4. 列於附錄A中之分類定義是根據67/548/EE以及Regulation (EC) No 1907/2006 (Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006)。
- 5. 各測試單元的濃度及重量請參閱附錄C. / Please refer to Appendix C to find the concentration and the weight of each tested unit.
- 6. "-" = Not Regulated (無規格値)
- 7. (*): 重铬酸鈉二水合物(CAS No.: 007789-12-0)含量 = 重铬酸鈉含量 × 1.1374 (conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1374)
- 8. ***: 該物質是由"三丁基錫"或各別元素 (例如: 砷、鉛或六價鉻)之測試結果計算得知. The substance was calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead or Cr(VI) respectively).

$AX = A \times F$

АХ	А	F
五氧化二砷 / Diarsenic pentaoxide		1.5339
三氧化二砷 / Diarsenic trioxide	Tele / A ·	1.3203
三乙基砷酸鹽 / Triethyl arsenate	种 / Arsenic	3.0179
冲		4.6332
砷酸氫鉛 / Lead hydrogen arsenate	鉛 / Lead	1.6753
重鉻酸鈉 / Sodium dichromate	六價鉻 / Hexavalent Chromium Cr(VI)	2.5192
三丁基錫氧化物 / Bis(tributyltin)oxide	三丁基錫 / Tributyl Tin (TBT)	1.0276

"砷酸氫鉛"之濃度是取砷及鉛兩者各别換算出砷酸氫鉛濃度,並取其之最小值做為最後出報告之依據.

(Regarding lead hydrogen arsenate lead and arsenic are tested and used for the calculation of the separated concentration of lead hydrogen arsenate. The final concentration of lead hydrogen arsenate for the report uses the minimum value of above-mentioned two concentration of lead hydrogen arsenate.)

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日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD.

桃園縣觀音工業區國建三路5號

5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

测试结果如下(The test result is given as):

物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限値 (RL)
三丁基錫 / Tributyl Tin (TBT)	%	n.d.	0.005
砷 / Arsenic (As)	%	n.d.	0.005
鉛 / Lead (Pb)	%	n.d.	0.005
六價鉻 / Hexavalent Chromium Cr(VI)	%	n.d.	0.005

9. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來. / The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.

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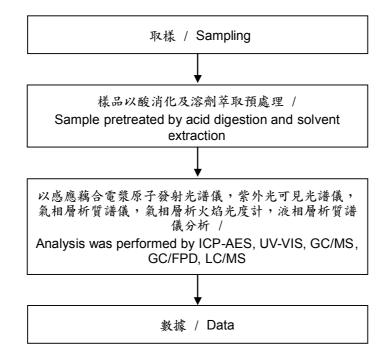
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Test Report

日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD. 桃園縣觀音工業區國建三路5號 5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

<u>SVHC 分析流程圖 / Analytical flow chart of SVHC</u>

- 1) 測試人員: 翁賜彬/傅莉雅/周穗華/楊登偉 / Name of the person who made measurement: Roman Wong/Lydia Fu/ Stacy Chou/ Climbgreat Yang
- 2) 測試負責人: 龔振裕 / Name of the person in charge of measurement: Chenyu Kung



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日皓造紙工業股份有限公司

JIH SUN PAPER IND. CO., LTD. 桃園縣觀音工業區國建三路5號 5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.



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【附錄 (Appendix) A】

分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義
	(Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
致癌物質 類别1	已知會對人類致癌的物質。有足夠的證據證明人體暴露於該物質和癌症發展之間有相互的關聯
(Carcinogen Category 1):	性 (Substances known to be carcinogenic to man. There is sufficient evidence to
	establish a causal association between human exposure to a substance and the
	development of cancer) °
致癌物質 類别 2	應被視為可能對人體會導致致癌的物質。有足夠的證據強力推論人體暴露於該物質可能導致癌
(Carcinogen Category 2):	症發展,上述基於下列研究所得之結果 (Substances which should be regarded as if they
	are carcinogenic to man. There is sufficient evidence to provide a strong
	presumption that human exposure to a substance may result in the development of
	cancer. Generally on the basis of):
	- 適當的長期動物實驗 (appropriate long-term animal studies)。
	- 其他相關資訊 (other relevant information)。
導致基因突變 類别1	已知會對人類導致基因突變的物質。有足夠的證據證明人體暴露於該物質和遺傳基因損害之間
(Mutagen Category 1):	之間有相互的關聯性 (Substances known to be mutagenic to man. There is sufficient
	evidence to establish a causal association between human exposure to a substance
	and heritable genetic damage) °
導致基因突變 類别2	應被視為是否對人體會導致基因突變的物質。有足夠的證據強力推論人體暴露於該物質可能導
(Mutagen Category 2):	致遺傳基因損害,上述基於下列研究所得之結果 (Substances which should be regarded as
	if they are mutagenic to man. There is sufficient evidence to provide a strong
	presumption that human exposure to the substance may result in the development of
	heritable genetic damage, generally on the basis of) :
	- 適當的長期動物實驗 (appropriate animal studies)。
	- 其他相關資訊 (other relevant information)。
對生殖系統有害 類别1	已知會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質和生殖能力削弱之間有
(Toxic to Reproduction	相互的關聯性 (Substances known to impair fertility in humans. There is sufficient
Category 1) :	evidence to establish a causal relationship between human exposure to the substance
	and impaired fertility) •
	已知會在人體引起毒性的物質。有足夠的證據證明人體暴露於該物質和其後產生之毒性對後代
	造成影響有相互之關聯性 (Substances known to cause developmental toxicity in humans.
	There is sufficient evidence to establish a causal relationship between human
	exposure to the substance and subsequent developmental toxic effects in the
	progeny) °

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SGS Taiwan Ltd

測試報告(SVHC)

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日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD.

桃園縣觀音工業區國建三路5號

5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
對生殖系統有害 類别2 (Toxic to Reproduction Category 2) :	應被視為可能會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質可能導致損害 人體生殖能力的有力推論,上述基於下列研究所得之結果 (Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of):
	- 缺少毒性作用的生殖能力削弱動物實驗中的明顯證據,或在同使用量下其他毒性作用但不 是其他毒性作用的輔助非特定結果的生殖能力削弱證據 (clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects)
	- 其他相關資訊 (other relevant information) 應被視為可能在人體引起毒性發展的物質有足夠的證據提供人體暴露於該物質可能引起毒性發 展的有力推論,整體而言是基於 (Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of):
	 在適當動物實驗研究所進行缺乏顯著母體毒性徵象或在同使用量下其他毒性作用但不是其他毒性作用的輔助非特定結果的生殖能力削弱證據觀察,所得到之明顯結果 (clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects)。
長期生物蓄積性及毒性物質 & 高持久性和高生物蓄積性物質 (PBT & vPvB):	- 其他相關資訊 (other relevant information) 長期生物蓄積性及毒性物質(PBT)或高持久性和高生物蓄積性物質(vPvB)造成化學安全管理上特 別挑戰。這些物質在環境中無法用一個"安全"濃度建立足夠的可靠度。/ Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.

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SGS Taiwan Ltd

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日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD. 桃園縣觀音工業區國建三路5號 5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

【附錄 (Appendix) B】

SVHC 調查	表(SURVEY FORM)		
公司名稱(Company Name): 日皓造紙工業股份有限公司		. CO., LTD.	.)
樣品名稱(Product Name): 塗佈紙類 (COATED PAPER)			
產品/取樣重量(Product/Sampling weight): 13.1 g			
報告號碼(Report No.): CR/2010/30130			
物質鑑定(Subst	ance identificatio	on)	
物質名稱 (Substance name)	成品濃度 (Concentration) (%)	重量 (weight) (mg)	安全資訊的提供, 根據Article 33 (providing information about safe use according to Article 33 is necessary)
蒽/ Anthracene	n.d.	N/A	No
4,4' - 二氨基二苯甲烷 / 4,4' -	n.d.	N/A	No
Diaminodiphenylmethane			
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate)	n.d.	N/A	No
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate)	n.d.	N/A	No
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-	n.d.	N/A	No
ethylhexyl) phthalate)			
二甲苯麝香 / 5-tert-buty1-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	N/A	No
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)	n.d.	N/A	No
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	N/A	No
三丁基錫氧化物 / Bis(tributyltin)oxide	n.d.	N/A	No
二氯化鈷 / Cobalt dichloride	n.d.	N/A	No
五氧化二砷 / Diarsenic pentaoxide	n.d.	N/A	No
三氧化二砷 / Diarsenic trioxide	n.d.	N/A	No
三乙基砷酸鹽 / Triethyl arsenate	n.d.	N/A	No
砷酸氫鉛 / Lead hydrogen arsenate	n.d.	N/A	No
重鉻酸鈉 / Sodium dichromate	n.d.	N/A	No
	n.d.	N/A	No

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Test Report 日皓造紙工業股份有限公司

JIH SUN PAPER IND. CO., LTD. 桃園縣觀音工業區國建三路5號

5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

物質名稱(Substance name)	成品濃度 (Concentration) (%)	重量 (weight) (mg)	安全資訊的提供, 根據Article 33 (providing information about safe use according to Article 33 is necessary)
茵油,蒽糊,輕油 / Anthracene oil, anthracene paste,	n.d.	N/A	No
distn. Lights 茵油, 蒽糊, 蒽馏分 / Anthracene oil, anthracene paste, anthracene fraction	n.d.	N/A	No
· 茵油, 含蒽量少 / Anthracene oil, anthracene-low	n.d.	N/A	No
茵油, 蒽糊 / Anthracene oil, anthracene paste	n.d.	N/A	No
煤瀝青,高溫 / Pitch, coal tar, high-temp.	n.d.	N/A	No
矽酸鋁,耐火陶瓷纖維 / Aluminiosilicate, Refractory Ceramic Fibres	n.d.	N/A	No
结矽酸銘,耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	n.d.	N/A	No
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate)	n.d.	N/A	No
2,4-二硝基甲苯 / 2,4-Dinitrotoluene	n.d.	N/A	No
磷酸三 (2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP)	n.d.	N/A	No
络酸鉛 / Lead chromate	n.d.	N/A	No
鉬鉻紅;顏色索引:顏料紅半104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	N/A	No
络酸鉛;顏色索引:顏料黄34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	N/A	No

備註(Note): N/A = 不適用 (Non-Available)

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虎吻(No.): CR/2010/30130

(Date): 2010/03/10

日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD. 桃園縣觀音工業區國建三路5號 5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

【附錄 (Appendix) C】

測試單元(Tested Unit)No.1: 白色紙(WHITE PAPER)(重量Weight: 13.1g)

物質名稱 (Substance Name)	濃度 (Concentration) (%)	報告 極限値 (RL)	樣品圖 (Sample Picture)
蒽/ Anthracene	n.d.	0.005	CR/2010/30130
4,4' - 二氨基二苯甲烷 / 4,4' -	n.d.	0.005	
Diaminodiphenylmethane			
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate)	n.d.	0.005	
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate)	n.d.	0.005	and the second second second second second
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2- ethylhexyl) phthalate)	n.d.	0.005	And the second se
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	0.005	Series -
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)	n.d.	0.005	
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	0.01	
三丁基錫 / Tributyl Tin (TBT)	n.d.	0.005	
三丁基錫氧化物 / Bis(tributyltin)oxide	n.d.	-	
二氯化鈷 / Cobalt dichloride	n.d.	0.005	
种 / Arsenic (As)	n.d.	0.005	
五氧化二砷 / Diarsenic pentaoxide	n.d.	-	
三氧化二砷 / Diarsenic trioxide	n.d.	-	
三乙基砷酸鹽 / Triethyl arsenate	n.d.	-	
鉛 / Lead (Pb)	n.d.	0.005	
砷酸氫鉛 / Lead hydrogen arsenate	n.d.	-]
六價鉻 / Hexavalent Chromium Cr(VI)	n.d.	0.005	1
重络酸鈉 / Sodium dichromate	n.d.	-	1
- 葱油 / Anthracene oil	n.d.	0.05]
葱油,蔥糊,輕油 / Anthracene oil, anthracene paste, distn. Lights	n.d.	0.05	

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SGS Taiwan Ltd

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日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD.

桃園縣觀音工業區國建三路5號

5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

物質名稱 (Substance Name)	濃度 (Concentration) (%)	報告 極限値 (RL)	樣品圖 (Sample Picture)
蔥油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction	n.d.	0.05	CR/2010/30130
蒽油, 含蒽量少 / Anthracene oil, anthracene-low	n.d.	0.05	
茵油, 蒽糊 / Anthracene oil, anthracene paste	n.d.	0.05	
煤瀝青,高溫 / Pitch, coal tar, high-temp.	n.d.	0.05	and the second second second second
丙烯醯胺 / Acrylamide	n.d.	0.005	A second s
矽酸鋁,耐火陶瓷纖維 / Aluminiosilicate, Refractory Ceramic Fibres	n.d.	0.05	
鋯矽酸鋁,耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	n.d.	0.05	
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate)	n.d.	0.005	
2,4-二硝基甲苯 / 2,4-Dinitrotoluene	n.d.	0.005	
磷酸三 (2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP)	n.d.	0.005	
鉻酸鉛 / Lead chromate	n.d.	0.01	
鉬鉻紅;顏色索引:顏料紅半104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	0.01	
貉酸鉛;顏色索引:顏料黄34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	0.01	

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GS Taiwan Ltd



Test Report

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iest Report

日皓造紙工業股份有限公司 JIH SUN PAPER IND. CO., LTD. 桃園縣觀音工業區國建三路5號 5, KUO-CHIEN 3RD ROAD, KUANYIN HSIANG TAOYUAN HSIEN, TAIWAN, R. O. C.

備註:

1. 整個成品的平均濃度可以依據下列公式被計算得之. (The average concentration of a whole article can be calculated per the following formula.)

$$C_{Average of Article} = \frac{\sum_{i=n}^{n} (C_i * W_i)}{\sum_{i=n}^{n} (W_i)}$$

Ci : 單一SVHC測項在各測試單元中的濃度(Concentration of a SVHC item in each tested unit) Wi : 各測試單元的重量 (Weight of each tested unit)

C Average of Article: 整個成品的平均濃度 (Average concentration of a whole article)

** 報告結尾(End of Report) **

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