

Test Report

號碼(No.): KE/2011/40860 日期(Date): 2011/04/15 頁數(Page): 1 of 20

瑞晉興業股份有限公司

ROCKY-TAFU PLASTICS CO., LTD.

高雄市岡山區岡山北路20號

NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN (R.O.C.)

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : PEVA

樣品顏色(Color) : 黑色 (BLACK) 收件日期(Sample Receiving Date) 2011/04/11

測試期間(Testing Period) : 2011/04/11 TO 2011/04/15

測試需求(Test Requested): 46項高關注物質篩檢. 高關注物質候選清單是根據歐洲化學總署(ECHA)於2010年12月03日,就關於 REACH之Regulation (EC) No 1907/2006的公告。/ Forty-six (46) Substances of Very High Concern (SVHC) screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2010 December 03, 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)) °

Ray Chang / Asst. Manage Signed for and on behalf of **SGS Taiwan Limited**

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NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN (R.O.C.)

測試樣品(Test Sample): 黑色PEVA (BLACK PEVA)

測試方法:

參照SGS内部方法RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. 由感應藕合電漿原子發射光譜儀,紫外光可見光譜儀,氣相層析質譜儀, 氣相層析質譜儀/電子捕捉偵測器,氣相層析火焰光度計分析,液相層析質譜儀進行分析。(SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. Analysis was performed by ICP-AES, UV-VIS, GC/MS, GC/ECD, LC/MS, GC/FPD.)

備註:

- 1. 46項SVHC化學分析,依歐洲化學總署(ECHA)於2010年12月03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 46 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2010 December 03. This list is under evaluation by ECHA and may subject to change in the future.)
 - 請參照(refer to) http://echa.europa.eu/news/pr/201012/pr 10 24 msc 20101203 en.asp
- 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)條之規定鑑别, 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公頓。
 - (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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高雄市岡山區岡山北路20號

NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN (R.O.C.)

測試結果 (Test Results)

測試結果 (Test Results) 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	
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
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	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)
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 001327-53-3)	%	n.d.	-	致癌物質 類别 1 (Carcinogen Category 1)
三乙基砷酸酯 / Triethyl arsenate*** (CAS No.: 015606-95-8)	%	n.d.	-	致癌物質 類别 1 (Carcinogen Category 1)

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物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限値 (RL)	分類 (Classification)
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)
鉻酸鈉 / Sodium chromate*** (CAS No.: 007775-11-3)	%	n.d.	-	致癌第二類; 致突變第二類; 繁殖力
重鉻酸銨 / Ammonium dichromate*** (CAS No.: 007789-09-5)	%	n.d.	-	毒性第二類 (Carcinogenic category 2; mutagenic category
重鉻酸鉀 / Potassium dichromate*** (CAS No.: 007778-50-9)	%	n.d.	-	2; toxic for reproduction category 2)
鉻酸鉀 / Potassium chromate*** (CAS No.: 007789-00-6)	%	n.d.	-	致癌第二類; 致突變第二類 (Carcinogenic category 2; mutagenic category 2)
重鉻酸鈉 / 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)
三氧化络 / Chromium trioxide *** (CAS No.: 001333-82-0)	%	n.d.	-	致癌物質 類别 1; 導致基因突變 類 别 2 (Carcinogen Category 1; Mutagen Category 2)
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 / Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.: 007738-94-5)	%	n.d.	-	致癌物質 類别2 (Carcinogen Category 2)
從三氧化絡與其它寡聚體生成的酸類: 重鉻酸 / Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.: 013530-68-2)	%	n.d.	-	致癌物質 類别2 (Carcinogen Category 2)

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物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限値 (RL)	分類 (Classification)
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻 酸的寡聚體 / Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid (Note 11)	%	n.d.	-	致癌物質 類别2 (Carcinogen 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;高持久性和高生物蓄積性物質;致癌物質類別 2 (PBT; vPvB; Carcinogen Category 2)
蒽油,蒽糊,輕油 / Anthracene oil, anthracene paste, distn. Lights (CAS No.: 091995-17-4) (**)	%	n.d.	0.05	
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;高持久性和高生物蓄積性物質;致癌物質
蔥油,含蒽量少 / Anthracene oil, anthracene- low (CAS No.: 090640-82-7) (**)	%	n.d.	0.05	類別 2; 導致基因突變 類別 2 (PBT; vPvB; Carcinogen Category 2; Mutagen Category 2)
蔥油,蔥糊 / Anthracene oil, anthracene paste (CAS No.: 090640-81-6) (**)	%	n.d.	0.05	
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;高持久性和高生物蓄積性物質;致癌物質類別 2 (PBT; vPvB; Carcinogen Category 2)
矽酸鋁,耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	致癌物質 類别 2 (Carcinogen Category 2)
鋯矽酸鋁,耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	致癌物質 類别 2 (Carcinogen Category 2)
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 000084-69-5)	%	n.d.	0.005	對生殖系統有害 類别2 (Toxic to Reproduction Category 2)

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NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, 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)	
2,4-二硝基甲苯 / 2,4-Dinitrotoluene (CAS No.: 000121-14-2)	%	n.d.	0.005	致癌物質 類别 2 (Carcinogen Category 2)	
磷酸三 (2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 000115-96-8)	%	n.d.	0.005	對生殖系統有害 類别2 (Toxic to Reproduction Category 2)	
络酸鉛 / Lead chromate (CAS No.: 007758-97-6)	%	n.d.	0.01	致癌物質 類别 2; 對生殖系統有害 類别1 (Carcinogen Category 2; Toxic to Reproduction Category 1)	
鉬鉻紅;顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 012656-85-8)	%	n.d.	0.01	致癌物質 類别 2; 對生殖系統有害 類别1 (Carcinogen Category 2;	
络酸鉛;顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 001344-37-2)	%	n.d.	0.01	Toxic to Reproduction Category	
丙烯醯胺 / Acrylamide (CAS No.: 000079-06-1)	%	n.d.	0.005	致癌物質 類别2; 導致基因突變 類 别2 (Carcinogen Category 2; Mutagen Category 2)	
硼酸 / Boric acid*** (CAS No.: 010043-35-3; 011113-50-1)	%	n.d.	-	繁殖力毒性第二類 (Toxic for reproduction category 2)	
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 001303-96-4, 001330- 43-4, 012179-04-3)	%	n.d.	-	繁殖力毒性第二類 (Toxic for reproduction category 2)	
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 012267-73-1) (備註 7)	%	n.d.	-	繁殖力毒性第二類 (Toxic for reproduction category 2)	
三氯乙烯 / Trichloroethylene (CAS No.: 000079-01-6)	%	n.d.	0.005	致癌第二類 (Carcinogenic category 2)	

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NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, 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)	
硫酸鈷(二價) / Cobalt(II) sulphate *** (CAS No.: 010124-43-3)	%	n.d.	-		
硝酸鈷(二價) / Cobalt(II) dinitrate *** (CAS No.: 010141-05-6)	%	n.d.	-	致癌物質 類别2; 對生殖系統有害 類别2 (Carcinogen Category 2;	
碳酸鈷(二價) / Cobalt(II) carbonate *** (CAS No.: 000513-79-1)	%	n.d.	-	Toxic to Reproduction Category 2)	
醋酸鈷(二價) / Cobalt(II) diacetate *** (CAS No.: 000071-48-7)	%	n.d.	-		
乙二醇甲醚 / Ethylene glycol monomethyl ether (CAS No.: 000109-86-4)	%	n.d.	0.001	對生殖系統有害 類别2 (Toxic to Reproduction Category 2)	
乙二醇乙醚 / Ethylene glycol monoethyl ether (CAS No.: 000110-80-5)	%	n.d.	0.001	對生殖系統有害 類别2 (Toxic to Reproduction Category 2)	

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 / 報告極限値
- 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) o
- 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.(*): 重鉻酸鈉二水合物(CAS No.: 007789-12-0)含量 = 重鉻酸鈉含量 × 1.1374 (conc. of Sodium dichromate dihydrate = conc. of sodium dichromate \times 1.1374)
- 7. 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作爲代表(歐洲化學總署回信編號 Ref no.: INC 00000032519) / Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
- 8. (**): 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 abovementioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.

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瑞晉興業股份有限公司 ROCKY-TAFU PLASTICS CO., LTD. 高雄市岡山區岡山北路20號

NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN (R.O.C.)

9. ***: 該物質是由"三丁基錫"或各别元素 (例如: 砷、鉛、六價鉻、硼或鈷)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, Cr(VI), Boron or Cobalt respectively).

$AX = A \times F$

AX	A	F
五氧化二砷 / Diarsenic pentaoxide		1.5339
三氧化二砷 / Diarsenic trioxide		1.3203
三乙基砷酸酯 / Triethyl arsenate	砷 / Arsenic	3.0179
品联与AT / T 11-1		4.6332
砷酸氫鉛 / Lead hydrogen arsenate	鉛 / Lead	1.6753
三丁基錫氧化物 / Bis(tributyltin)oxide	三丁基錫 / Tributyl Tin (TBT)	1.0276
重鉻酸鈉 / Sodium dichromate		2.5192
鉻酸鈉 / Sodium chromate		3.1151
重鉻酸銨 / Ammonium dichromate		2.4239
重鉻酸鉀 / Potassium dichromate	六價鉻 /	2.8289
鉻酸鉀 / Potassium chromate	Hexavalent Chromium Cr(VI)	3.7347
三氧化鉻 / Chromium trioxide		1.9231
鉻酸 / Chromic acid		2.2696
重鉻酸 / Dichromic acid		2.0963
硼酸 / Boric acid		5.7195
無水四硼酸二鈉 / Disodium tetraborate,		4 6501
anhydrous		4.6531
水合硼酸鈉(五水四硼酸二鈉) / Disodium	硼 / Boron (B)	C 70C1
tetraborate, pentahydrate		6.7361
水合硼酸鈉(十水四硼酸二鈉) / Disodium		0 0101
tetraborate, decahydrate		8.8191
硫酸鈷(二價) / Cobalt(II) sulphate		2.63
硝酸鈷(二價) / Cobalt(II) dinitrate	Ab / Cabalt	3.1042
碳酸鈷(二價) / Cobalt(II) carbonate	鈷 / Cobalt	2.0183
醋酸鈷(二價) / Cobalt(II) diacetate		3.0038

"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,並取其之最小值做爲最後出報告之依據.

(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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NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN (R.O.C.)

測試結果如下(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
硼 / Boron (B)	%	n.d.	0.005
鈷 / Cobalt (Co)	%	n.d.	0.005

- 10. "-" = Not Regulated (無規格值)
- 11. 鉻酸與重鉻酸的寡聚體: 因為其寡聚體是由未知數的鉻酸或與重鉻酸所組成,而導致沒有固定分子量,因此以單體鉻酸或重鉻酸 較爲重要並應被考慮。/ Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.

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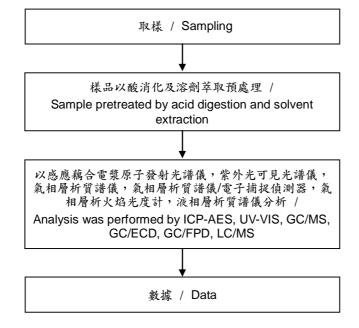
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SVHC 分析流程圖 / Analytical flow chart of SVHC

- 1) 測試人員:張俊雄/曹嘉琪 / Name of the person who made measurement: Alex Chang/Anson Tsao
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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【附錄 (Appendix) A】

My (Appendix) A	67/548/EEC以及Regulation (EC) No 1907/2006下的定義
分類 (Classification)	(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性
(Carcinogen Category 1):	(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	應被視爲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症發展
(Carcinogen Category 2):	,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之間有
(Mutagen Category 1):	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 類別2	應被視爲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致遺傳
(Mutagen Category 2):	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相互的
(Toxic to Reproduction	關聯性 (Substances known to impair fertility in humans. There is sufficient evidence to
Category 1) :	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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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 類別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
(Toxic to Reproduction	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
Category 2) :	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)
	應被視爲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) °
	- 其他相關資訊 (other relevant information)
長期生物蓄積性及毒性物質	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别挑
&	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
高持久性和高生物蓄積性物質	persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative
(PBT & vPvB):	(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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【附錄 (Appendix) B】

SVHC 調查表(SURVEY FORM)

公司名稱(Company Name): 瑞晉興業股份有限公司 (ROCKY-TAFU PLASTICS CO., LTD.)

樣品名稱(Product Name): PEVA

產品/取樣重量(Product/Sampling weight): 50 g

報告號碼(Report No.): KE/2011/40860

物質鑑定(Substance identification)					
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' - Diaminodiphenylmethane	n.d.	N/A	No		
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-ethylhexyl) phthalate)	n.d.	N/A	No		
二甲苯麝香 / 5-tert-butyl-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		
三乙基砷酸酯 / Triethyl arsenate	n.d.	N/A	No		
砷酸氫鉛 / Lead hydrogen arsenate	n.d.	N/A	No		
络酸鈉 / Sodium chromate	n.d.	N/A	No		
重络酸銨 / Ammonium dichromate	n.d.	N/A	No		
重鉻酸鉀 / Potassium dichromate	n.d.	N/A	No		
络酸鉀 / Potassium chromate	n.d.	N/A	No		
重絡酸鈉 / Sodium dichromate	n.d.	N/A	No		

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Test Report

號碼(No.): KE/2011/40860 日期(Date): 2011/04/15 頁數(Page): 15 of 20

瑞晉興業股份有限公司 ROCKY-TAFU PLASTICS CO., LTD. 高雄市岡山區岡山北路20號



NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, 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)
三氧化鉻 / Chromium trioxide	n.d.	N/A	No
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 / Acids generated from chromium trioxide and their oligomers: Chromic acid	n.d.	N/A	No
從三氧化鉻與其它寡聚體生成的酸類: 重鉻酸 / Acids generated from chromium trioxide and their oligomers: Dichromic acid	n.d.	N/A	No
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻酸的寡聚體 / Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid	n.d.	N/A	No
蔥油 / Anthracene oil	n.d.	N/A	No
蔥油,蔥糊,輕油 / Anthracene oil, anthracene paste, distn. Lights	n.d.	N/A	No
蔥油,蔥糊,蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction	n.d.	N/A	No
蒽油,含蒽量少 / Anthracene oil, anthracene-low	n.d.	N/A	No
蒽油,蒽糊 / Anthracene oil, anthracene paste	n.d.	N/A	No
煤瀝青, 高温 / Pitch, coal tar, high-temp.	n.d.	N/A	No
矽酸鋁,耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	n.d.	N/A	No
鋯矽酸鋁,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
鉬絡紅;顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	N/A	No
絡酸鉛;顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	N/A	No

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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)
丙烯醯胺 / Acrylamide	n.d.	N/A	No
硼酸 / Boric acid	n.d.	N/A	No
無水四硼酸二鈉 / Disodium tetraborate, anhydrous	n.d.	N/A	No
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate	n.d.	N/A	No
三氯乙烯 / Trichloroethylene	n.d.	N/A	No
硫酸鈷(二價) / Cobalt(II) sulphate	n.d.	N/A	No
硝酸鈷(二價) / Cobalt(II) dinitrate	n.d.	N/A	No
碳酸鈷(二價) / Cobalt(II) carbonate	n.d.	N/A	No
醋酸鈷(二價) / Cobalt(II) diacetate	n.d.	N/A	No
乙二醇甲醚 / Ethylene glycol monomethyl ether	n.d.	N/A	No
乙二醇乙醚 / Ethylene glycol monoethyl ether	n.d.	N/A	No

備註(Note): N/A = 不適用 (Non-Available)

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瑞晉興業股份有限公司

ROCKY-TAFU PLASTICS CO., LTD.

高雄市岡山區岡山北路20號

NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN (R.O.C.)

【附錄 (Appendix) C】

測試單元(Tested Unit)No.1: 里色PEVA (BLACK PEVA) (重量Weight: 50g)

測試早元(Tested Unit)No.1: 黒色PEVA (BLACK PEVA) 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	KE/2011/40860
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane	n.d.	0.005	
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	
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate)	n.d.	0.005	
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	0.005	WALLES AND THE STATE OF THE STA
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	
短鍵氯化石蠟 / 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	
砷 / Arsenic (As)	n.d.	0.005	
五氧化二砷 / Diarsenic pentaoxide	n.d.	-	
三氧化二砷 / Diarsenic trioxide	n.d.	-	
三乙基砷酸酯 / 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	
络酸鈉 / Sodium chromate	n.d.	-	
重鉻酸銨 / Ammonium dichromate	n.d.	-	
重鉻酸鉀 / Potassium dichromate	n.d.	-	
络酸鉀 / Potassium chromate	n.d.	-	
重络酸鈉 / Sodium dichromate	n.d.	-	

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物質名稱 (Substance Name)	濃度 (Concentration) (%)	報告 極限値 (RL)	樣品圖 (Sample Picture)
三氧化鉻 / Chromium trioxide	n.d.		KE/2011/40860
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 / Acids	n.d.	-	
generated from chromium trioxide and their oligomers:			
Chromic acid			
從三氧化鉻與其它寡聚體生成的酸類: 重鉻酸 / Acids	n.d.		
generated from chromium trioxide and their oligomers:			
Dichromic acid			
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻酸的寡聚體	n.d.	-	Property and
/ Acids generated from chromium trioxide and their			
oligomers: Oligomers of chromic acid and dichromic			
acid	1	0.05	
蔥油 / Anthracene oil	n.d.	0.05	
蔥油,蔥糊,輕油 / Anthracene oil, anthracene paste,	n.d.	0.05	
distn. Lights	,	0.05	
蔥油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction	n.d.	0.05	
		0.05	
蔥油,含蔥量少 / Anthracene oil, anthracene-low	n.d.	0.05	
蔥油,蔥糊 / Anthracene oil, anthracene paste	n.d.	0.05	
煤瀝青,高溫 / Pitch, coal tar, high-temp.	n.d.	0.05	
矽酸鋁,耐火陶瓷纖維 / Aluminosilicate, Refractory	n.d.	0.05	
Ceramic Fibres			
鋯矽酸鋁,耐火陶瓷纖維 / Zirconia Aluminosilicate,	n.d.	0.05	
Refractory Ceramic Fibres			
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	n.d.	0.005	
(TCEP)			
鉻酸鉛 / Lead chromate	n.d.	0.01	
鉬鉻紅;顏色索引: 顏料紅104 / Lead chromate molybdate	n.d.	0.01	
sulphate red (C.I. Pigment Red 104)			
鉻酸鉛;顏色索引: 顏料黃34 / Lead sulfochromate yellow	n.d.	0.01	
(C.I. Pigment Yellow 34)			

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NO.20, GANGSHAN N. RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN (R.O.C.)

物質名稱 (Substance Name)	濃度 (Concentration) (%)	報告 極限値 (RL)	樣品圖 (Sample Picture)
丙烯醯胺 / Acrylamide	n.d.	0.005	KE/2011/40860
硼 / Boron (B)	n.d.	0.005	
硼酸 / Boric acid	n.d.	-	
無水四硼酸二鈉 / Disodium tetraborate, anhydrous	n.d.	-	B
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate	n.d.	-	
三氯乙烯 / Trichloroethylene	n.d.	0.005	7
銛 / Cobalt (Co)	n.d.	0.005	Preserve
硫酸鈷(二價) / Cobalt(II) sulphate	n.d.	-	
硝酸鈷(二價) / Cobalt(II) dinitrate	n.d.	-	
碳酸鈷(二價) / Cobalt(II) carbonate	n.d.	-	
醋酸鈷(二價) / Cobalt(II) diacetate	n.d.	-	
乙二醇甲醚 / Ethylene glycol monomethyl ether	n.d.	0.001	
乙二醇乙醚 / Ethylene glycol monoethyl ether	n.d.	0.001	

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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.)

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

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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