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日期(Date): 2012/02/03

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茂益工業社

(42841)臺中市大雅區中山11路68號

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)

收件日期(Sample Receiving Date)

2012/01/31

測試期間(Testing Period)

: 2012/01/31 TO 2012/02/03

送樣廠商(Sample Submitted By)

茂益工業社

測試需求(Test Requested)

: 73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2011年12月19日 ,就關於REACH之Regulation (EC) No 1907/2006的公告。/ Seventy-three(73) Substances of Very High Concern (SVHC) screening, SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2011 December 19, regarding Regulation (EC) No 1907/2006 concerning the REACH.

測試方法(Test Method) 測試結果(Test Results) 總結(Summary)

: 請見下一頁 (Please refer to next pages).

請見下一頁 (Please refer to next pages).

: 根據歐洲化學總署及絕大部分歐盟會員國對於成品定義詮釋以及依據指定規範和分析技術, 送測樣品的高關注物質(SVHC)濃度均小於0.1% (According to the interpretation of ECHA and the majority of EU member states on the definition of an article as well as the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s)) .

Ray Chang / Asst. Manager Signed for and on behalf of

From NECO-Surface Finishing





NECO TECHNOLOGY INDUSTRY CO., LTD.

SGS Taiwan Limited

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台灣檢驗科技股份有限公司

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測試樣品(Test Sample):

黑色 鋁碗 (BLACK 鋁碗)

測試方法(Test Method):

參照SGS内部方法RSTS-EE-SVHC-003,RSTS-EE-SVHC-004,RSTS-EE-SVHC-006.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,液相層析儀/二極體 陣列偵測器分析。(SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004, RSTS-EE-SVHC-006. Analyzed by ICP-AES, UV-VIS, GC/MS, GC/ECD, GC/FPD, LC/MS, LC/DAD.)

備註(Remark):

- 1.73項SVHC化學分析,依歐洲化學總署(ECHA)於2011年12月19日所公佈的清單,藉由現有的分析技術進行締檢。這清單是由 ECHA所評估且未來可受更改。(The chemical analysis of 73 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2011 December 19. This list is under evaluation by ECHA and may subject to change in the future.)
 - 請參照(refer to) http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_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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測試結果 (Test Results)	The state of the s		
物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告 極限値 (RL)(%)	分類 (Classification) 【附錄 (Appendix) A】
蔥 / Anthracene (CAS No.: 120-12-7)	n.d.	0.005	PBT
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane (CAS No.: 101-77-9)	n.d.	0.005	CC2
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	n.d.	0.005	TRC2
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	n.d.	0.005	TRC2
鄰苯二甲酸二 (2-乙基己基)酯 / Bis (2-ethyl(hexyl) phthalate) (DEHP) (CAS No.: 117-81-7)	n.d.	0.005	TRC2
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	n.d.	0.005	νPvB
六溴環十二烷及所有主要被辩别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	n.d.	0.005	PBT
短鏈氣化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	n.d.	0.01	РВТ
三丁基錫氧化物 / Bis(tributyltin)oxide*** (CAS No.: 56-35-9)	n.d.	-	РВТ
二氯化钴 / Cobalt dichloride (CAS No.: 7646-79-9)	n.d.	0.005	CC2; TRC2
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	n.d.	-	CC1
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 1327-53-3)	n.d.	-	CC1
三乙基砷酸酯 / Triethyl arsenate*** (CAS No.: 15606-95-8)	n.d.	_	CC1
砷酸氢鉛 / Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1)	n.d.	**	CC1; TRC1
络酸鈉 / Sodium chromate*** (CAS No.: 7775-11-3)	n.d.	*	CC2; MC2; TRC2
重鉻酸銨 / Ammonium dichromate*** (CAS No.: 7789-09-5)	n.d.	-	CC2; MC2; TRC2
重络酸鉀 / Potassium dichromate*** (CAS No.: 7778-50-9)	n.d.	-	CC2; MC2; TRC2
络酸鉀 / Potassium chromate*** (CAS No.: 7789-00-6)	n.d.	-	CC2; MC2

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物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告 極限値 (RL)(%)	分類 (Classification) 【附錄 (Appendix) A】
重络酸鈉 / Sodium dichromate*** (CAS No.: 10588-01-9, 7789- 12-0(*))	n.d.	_	CC2; MC2; TRC2
三氧化鉻 / Chromium trioxide ***	n.d.	•	CC2; MC2
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.: 7738-94-5)	n.d.	***	CC2
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*** (CAS No.: 13530-68-2)	n.d.	•	CC2
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 (*1)	n.d.	-	CC2
络酸鋁 / Strontium chromate*** (CAS No.: 7789-06-2)	n.d.	-	CC2
蔥油 / Anthracene oil (CAS No.: 90640-80-5) (**)	n.d.	0.05	PBT; vPvB; CC2
蒽油,蒽糊,輕油 / Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	n.d.	0.05	PBT
蔥油,蔥糊,蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
蔥油,含蔥量少 / Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
蔥油,蔥糊 / Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
煤瀝青,高温 / Pitch, coal tar, high-temp. (CAS No.: 65996- 93-2) (**)	n.d.	0.05	PBT; vPvB; CC2
矽酸鋁,耐火陶瓷纖維(主要成分濃度範圍明確)/ Aluminosilicate, Refractory Ceramic Fibres Al2O3: 43.5 - 47 % w/w, and SiO2: 49.5 - 53.5 % w/w, or Al2O3: 45.5 - 50.5 % w/w, and SiO2: 48.5 - 54 % w/w	n.d.	0.05	CC2
結矽酸鋁,耐火陶瓷纖維(主要成分濃度範圍明確)/ Zirconia Aluminosilicate, Refractory Ceramic Fibres Al 203: 35- 36 % w/w, and SiO2: 47.5 - 50 % w/w, and ZrO2: 15- 17 % w/w	n.d.	0.05	CC2

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鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	n.d.	0.005	TRC2
2,4-二硝基甲苯 / 2,4-Dinitrotoluene (CAS No.: 121-14-2)	n.d.	0.005	CC2
磷酸三 (2-氟乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	n.d.	0.005	TRC2
络酸鉛 / Lead chromate (CAS No.: 7758-97-6)	n.d.	0.01	CC2; TRC1
銀絡紅;顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 12656-85-8)	n.d.	0.01	CC2; TRC1
鉻酸鉛;顏色索引:顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2)	n.d.	0.01	CC2; TRC1
丙烯醯胺 / Acrylamide (CAS No.: 79-06-1)	n.d.	0.005	CC2; MC2
硼酸 / Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	n.d.		TRC2
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	n.d.	•	TRC2
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (*2)	n.d.	••	TRC2
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	n.d.	0.005	CC2
硫酸鈷(二價) / Cobalt(II) sulphate*** (CAS No.: 10124-43-3)	n.d.	-	CC2; TRC2
硝酸鈷(二價) / Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)	n.d.	***	CC2; TRC2
碳酸鈷(二價) / Cobalt(II) carbonate*** (CAS No.: 513-79-1)	n.d.		CC2; TRC2
醋酸鈷(二價) / Cobalt(II) diacetate*** (CAS No.: 71-48-7)	n.d.	-	CC2; TRC2
乙二醇甲醚 / 2-Methoxyethanol (CAS No.: 109-86-4)	n.d.	0.005	TRC2
乙二醇乙醚 / 2-Ethoxyethanol (CAS No.: 110-80-5)	n.d.	0.005	TRC2
乙二醇乙醚乙酸酯 / 2-ethoxyethyl acetate (CAS No.: 111-15-9)	n.d.	0.05	TRC2
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 / 1,2- Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (CAS No.: 68515-42-4)	n.d.	0.05	TRC2
聯氨 / Hydrazine (CAS No.: 7803-57-8; 302-01-2)	n.d.	0.05	CC2
N-甲基吡咯烷酮 / 1-methyl-2-pyrrolidone (CAS No.: 872-50-4)	n.d.	0.05	TRC2
1,2,3-三氯丙烷 / 1,2,3-trichloropropane (CAS No.: 96-18-4)	n.d.	0.05	CC2; TRC2

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鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯,富C7 / 1,2-	n.d.	0.05	TRC2
Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,			
C7-rich (CAS No.: 71888-89-6)			
砷酸 / Arsenic acid*** (CAS No.: 7778-39-4)	n.d.	-	CC1
砷酸鈣 / Calcium arsenate*** (CAS No.: 7778-44-1)	n.d.	-	CC1
砷酸鉛 / Trilead diarsenate*** (CAS No.: 3687-31-8) (※1)	n.d.	-	CC1; TRC1
叠氮化鉛 / Lead diazide, Lead azide*** (CAS No.: 13424-46-9)	n.d.	_	TRC1
中性斯蒂酚酸鉛 / Lead styphnate*** (CAS No.: 15245-44-0)	n.d.	_	TRC1
苦味酸鉛 / Lead dipicrate*** (CAS No.: 6477-64-1)	n.d.	_	TRC1
络酸鉻 / Dichromium tris (chromate)*** (CAS No.: 24613-89- 6)	n.d.	_	CC2
氫氧化鉻酸鋅鉀 / Potassium hydroxyoctaoxodizincatedi- chromate*** (CAS No.: 11103-86-9)	n.d.	-	CC1
氫氧化鉻酸鋅 / Pentazinc chromate octahydroxide*** (CAS No.: 49663-84-5)	n.d.	-	CC1
甲醛與苯胺的寡聚體 / Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)	n.d.	0.05	CC2
鄭苯二甲酸二甲氧基乙酯 / Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)	n.d.	0.05	TRC2
鄰甲氧基苯胺 / 2-Methoxyaniline; o-Anisidine (CAS No.: 90- 04-0)	n.d.	0.05	CC2
對特辛基苯酚 / 辛基酚 / 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	n.d.	0.05	相同危害等級 (Equivalent concern)
1,2-二氟乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	n.d.	0.05	CC2
双(2-甲氧基乙基)醚 / Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)	n.d.	0.05	TRC2
N,N-二甲基乙醯胺 / N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	n.d.	0.05	TRC2
4,4'-亞甲雙(2-氯苯胺)/ 2,2'-dichloro- 4,4'- methylenedianiline (MOCA) (CAS No.: 101-14-4)	п.d.	0.05	CC2
酚酢 / Phenolphthalein (CAS No.: 77-09-8)	n.d.	0.05	CC2

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物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告 極限値 (RL)(%)	分類 (Classification) 【附錄 (Appendix) A】
矽酸鋁,耐火陶瓷纖維(主要成分濃度於可變範圍内)/ Aluminosilicate, Refractory Ceramic Fibres oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges	n.d.	0.05	CC2
結矽酸鋁,耐火陶瓷纖維(主要成分濃度於可變範圍內)/ Zirconia Aluminosilicate, Refractory Ceramic Fibres oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges	n.d.	0.05	CC2

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d.= not detected = below Reporting Limit / 未检出
- · 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) .
 - 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
 - 6. (*): 重鉻酸鈉二水合物(CAS No.: 7789-12-0)含量 = 重鉻酸鈉含量 × 1.1374 (conc. of Sodium dichromate dihydrate = conc. of sodium dichromate X 1.1374)
 - 7. (*1): 络酸與重络酸的寡聚體: 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 體鉻酸或重鉻酸較為重要並應被考慮。/ 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.
 - 8. (*2): 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 000000032519) / Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 00000032519).

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- 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.
- 10. ***: 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, Cobalt respectively).

 $AX = A \times F$

AX	A	P
五氧化二砷 / Diarsenic pentaoxide		1.5339
三氧化二砷 / Diarsenic trioxide	1	1.3203
三乙基砷酸酯 / Triethyl arsenate	砷 / Arsenic	3.0179
种酸氫鉛 / Lead hydrogen arsenate		4.6332
苦味酸鉛 / Lead dipicrate		1.6753
中性斯蒂酚酸鉛 / Lead styphnate	- 鉛 / Lead	3.2017
量氮化鉛 / Lead diazide	yo / Lead	2.1732
砷酸鉛 / Trilead diarsenate		1.4056 1.447
тахэр / Itileau diarsenate		6.0025
砷酸 / Arsenic acid	₩ / Arsenic	1.8946
砷酸鈣 / Calcium arsenate		2.6566
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
络酸鈉 / Sodium chromate		3.1151
重鉻酸銨 / Ammonium dichromate		2.4239
重鉻酸鉀 / Potassium dichromate		2.8289
络酸鉀 / Potassium chromate		3.7347
三氧化络 / Chromium trioxide		1.9231
络酸 / Chromic acid	六價鉻 /	2.2696
重络酸 / Dichromic acid	Hexavalent Chromium Cr(VI)	2.0963
络酸鳃 / Strontium chromate	, and the same of	3,9159
氫氧化鉻酸鋅 / Pentazinc chromate octahydroxide		11.1345
氫氧化鉻酸鋅鉀 / Potassium hydroxyoctaoxodizincatedi-		1111040
chromate		4.0277
络酸络 / Dichromium tris (chromate)		2.8975

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 $AX = A \times F$

AX	A	F
硼酸 / Boric acid 無水四硼酸二鈉 / Disodium tetraborate, anhydrous		5.7195 4.6531
水合硼酸鈉(五水四硼酸二鈉) / Disodium tetraborate, pentahydrate	碉 / Boron	6.7361
水合硼酸鈉(十水四硼酸二鈉) / Disodium tetraborate, decahydrate		8.8191
硫酸钴(二價) / Cobalt(II) sulphate		2.63
硝酸钴(二價) / Cobalt(II) dinitrate	\$ / Cobalt	3.1042
碳酸鈷(二價) / Cobalt(II) carbonate	J 76 / Cobalt	2.0183
醋酸鈷(二價) / Cobalt(II) diacetate		3.0038

測試結果如下(The test result is given as):

物質名稱 、 (Substance Name)	成品濃度 (Concentration) (%)	報告 極限値 (RL)(%)
三丁基錫 / Tributyl Tin (TBT)	n.d.	0.005
种 / Arsenic (As) (※2)	n.đ.	0.005
鉛 / Lead (Pb)	n.d.	0.005
六價鉻 / Hexavalent Chromium Cr(VI)	n.d.	0.005
硼 / Boron (B) (※2)	n.d.	0.005
銛 / Cobalt (Co)	n.d.	0.005

- 11. (※1): 此砷鉛化合物之濃度是取砷及鉛兩者各别換算出砷鉛化合物濃度,並取其最小值做為最後出報告之依據.
 (Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
- 12. "-" = Not Regulated (無規格值)
- 13. (※2): 被萃取出的溶出硼/砷是以感應耦合電漿原子發射光譜儀檢測得之. / The extracted soluble Boron / Arsenic are detected by ICP-AES.

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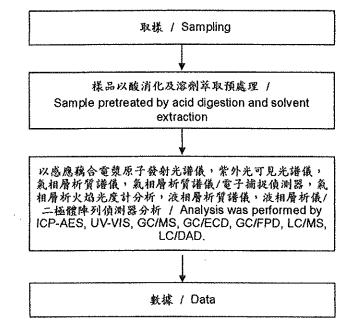
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SVHC 分析流程圖 / Analytical flow chart of SVHC

- 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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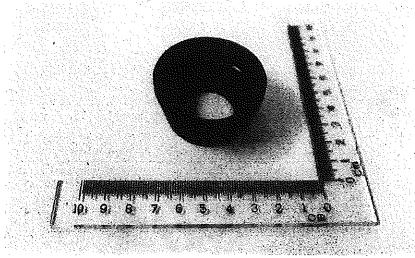
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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【附錄 (Appendix) A】

I Wask (Abbengix) V	
分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義
7) 934 (Classification)	(Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
CC1: 致癌物質 類別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) ·
CC2: 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)。
MC1: 導致基因突變 類別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) ·
MC2: 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)。
TRC1: 對生殖系統有害 類別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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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)

TRC2: 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) .
- 其他相關資訊 (other relevant information)

質 & vPvB 高持久性和高生物 蓄積性物質

PBT 長期生物蓄積性及毒性物 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 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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茂益工業社

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【附錄 (Appendix) B】

		SVHC	調查表(8	SURVEY FO	RM)		
公司名稱(Company Name):	茂益工業社						
樣品名稱(Product Name):	鋁碗						
產品/取樣重量(Product/Sa	mpling weight):	33.27	g				
報告號碼(Report No.):	KC/2012/10144						
	物質	鑑定(Si	ubstance	e identif	ication)		

初月 Yax (Outstance To	Tentification,		
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)
蔥/ 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
鄭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 / Bis (2-ethyl(hexyl) phthalate) (DEHP)	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
短鏈氧化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.đ.	N/A	No
三丁基錫氧化物 / Bis(tributyltin)oxide	n.d.	N/A	No
二氧化鈷 / Cobalt dichloride	n.d.	N/A	No
五氧化二种 / 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
砷酸氢鋁 / Lead hydrogen arsenate	n.d.	N/A	No
络酸鈉 / Sodium chromate	n.d.	N/A	No
重鉻酸銨 / Ammonium dichromate	n.d.	N/A	No
重鉻酸鉀 / Potassium dichromate	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)
络酸鉀 / Potassium chromate	n.d.	N/A	No
重络酸鈉 / Sodium dichromate	n.d.	N/A	No
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
络酸鋁 / Strontium chromate	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
惠油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction	n.d.	N/A	No
惠油, 含蒽量少 / Anthracene oil, anthracene-low	n.d.	N/A	No
惠油,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(主要成分濃度範圍明確)/ Aluminosilicate, Refractory Ceramic Fibres Al 203: 43.5 - 47 % w/w, and SiO2: 49.5 - 53.5 % w/w, or Al 203: 45.5 - 50.5 % w/w, and SiO2: 48.5 - 54 % w/w	n.d.	N/A	No
結矽酸鋁,耐火陶瓷纖維(主要成分濃度範圍明確)/ Zirconia Aluminosilicate, Refractory Ceramic Fibres Al203: 35-36% w/w, and SiO2: 47.5-50% w/w, and ZrO2: 15-17% w/w	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-氟乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP)	n.d.	N/A	No
络酸鉛 / Lead chromate	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)
銷絡紅;顏色索引: 顏料紅104 / Lead chromate molybdate	n.d.	N/A	No
sulphate red (C.I. Pigment Red 104)		" 	
移酸鉛;顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	N/A	No
丙烯醯胺 / Acrylamide		N7 / A	
硼酸 / Boric acid	n.d.	N/A	No .
無水四硼酸二鈉 / Disodium tetraborate, anhydrous	n.d.	N/A	No No
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate	n.d.	N/A N/A	No No
三氯乙烯 / Trichloroethylene	n.d.	N/A	No No
硫酸鈷(二價) / Cobalt(II) sulphate	n.d.	N/A	No 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 / 2-Methoxyethanol	n.d.	N/A	No
乙二醇乙醚 / 2-Ethoxyethanol	n.d.	N/A	No
乙二醇乙醚乙酸酯 / 2-ethoxyethyl acetate	n.d.	N/A	No
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 / 1,2-	n.d.	N/A	No
Benzenedicarboxylic acid, di-C7-11-branched and linear			
alkyl esters			
聯氨 / Hydrazine	n.d.	N/A	No
N-甲基吡咯烷酮 / 1-methyl-2-pyrrolidone	n.d.	N/A	No
1,2,3-三氟丙烷 / 1,2,3-trichloropropane	n.d.	N/A	No
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯, 富C7 / 1,2-	n.d.	N/A	No
Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,			
C7-rich			
种酸 / Arsenic acid	n.d.	N/A	No
砷酸鈣 / Calcium arsenate	n.d.	N/A	No
砷酸鉛 / Trilead diarsenate	n.d.	N/A	No
疊氮化鉛 / Lead diazide, Lead azide	n.d.	N/A	No
中性斯蒂酚酸鉛 / Lead styphnate	л.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)
苦味酸鉛 / Lead dipicrate	n.d.	N/A	No
络酸鉻 / Dichromium tris (chromate)	n.d.	N/A	No
氫氧化鉻酸鋅鉀 / Potassium hydroxyoctaoxodizincatedi- chromate	n.d.	N/A	No
氫氧化鉻酸鋅 / Pentazinc chromate octahydroxide	n.d.	N/A	No
甲醛與苯胺的寡聚體 / Formaldehyde, oligomeric reaction products with aniline (technical MDA)	n.d.	N/A	No
鄰苯二甲酸二甲氧基乙酯 / Bis(2-methoxyethyl) phthalate	n.d.	N/A	No
鄭甲氧基苯胺 / 2-Methoxyaniline; o-Anisidine	n.d.	N/A	No
對特辛基苯酚 / 辛基酚 / 4-(1,1,3,3-tetramethylbutyl)	n.d.	N/A	No
phenol, (4-tert-Octylphenol)			
1,2-二氟乙烷 / 1,2-Dichloroethane	n.d.	N/A	No
双(2-甲氧基乙基)醚 / Bis(2-methoxyethyl) ether	n.d.	N/A	No
N,N-二甲基乙醯胺 / N,N-dimethylacetamide (DMAC)	n.d.	N/A	No
4,4'-亞甲雙 (2-氟苯胺) / 2,2'-dichloro- 4,4'- methylenedianiline (MOCA)	n.d.	N/A	No
酚酞 / Phenolphthalein	n.d.	N/A	No
矽酸鋁,耐火陶瓷纖維(主要成分濃度於可變範圍內)/	n.d.	N/A	No
Aluminosilicate, Refractory Ceramic Fibres			
oxides of aluminium and silicon are the main components			
present (in the fibres) within variable concentration			
ranges			
錯矽酸鋁,耐火陶瓷纖維(主要成分濃度於可變範圍內)/	n.d.	N/A	No
Zirconia Aluminosilicate, Refractory Ceramic Fibres			
oxides of aluminium, silicon and zirconium are the main			
components present (in the fibres) within variable			
concentration ranges			

備註(Note):

(A) N/A = 不適用 (Non-Available)

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【附錄 (Appendix) C】

測封單元(Tested Unit)No.1: 里色 銘碗 (BLACK 銘碗) (重量Weight: 33,27g)

測試單元(Tested Unit)No.1: 黑色 銘碗 (BLACK 銘碗) (重量Weight: 33.27g)						
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	KC/2012/10144			
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane	n.d.	0.005				
鄭苯二甲酸二丁酯 / 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 / Bis (2-ethyl(hexyl)	n.d.	0,005				
phthalate) (DEHP)						
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk	n.d.	0.005	Tree was a second			
Xylene)						
六溴環十二烷及所有主要被辨别出的異構物 /	n.d.	0.005				
Hexabromocyclododecane (HBCDD) and all major						
diastereoisomers identified (α- HBCDD, β- HBCDD, γ-						
HBCDD)						
短鏈氧化石蠟 / Alkanes, C10-13, chloro (Short Chain	n.d.	0.01				
Chlorinated Paraffins)						
三丁基錫 / Tributyl Tin (TBT)	n.d.	0.005				
三丁基錫氧化物 / Bis(tributyltin)oxide	n.d.	_				
二氟化鈷 / 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				
络酸纳 / Sodium chromate	n.d.	-				
重鉻酸銨 / Ammonium dichromate	n.d.	-]			
重鉻酸鉀 / Potassium dichromate	n.d.	-]			
鉻酸鉀 / Potassium chromate	n.d.	-				
重鉻酸鈉 / Sodium dichromate	n.d.	-				
三氧化鉻 / Chromium trioxide	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)
丙烯醯胺 / Acrylamide	n.d.	0.005	KC/2012/10144
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.	•	
水合硼酸鈉 / Tetraboron disodium heptaoxíde, hydrate	n.d.		
三氟乙烯 / Trichloroethylene	n.d.	0.005	
鈷 / Cobalt (Co)	n.d.	0.005	Entrain verse.
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 / 2-Methoxyethanol .	n.d.	0.005	
乙二醇乙醚 / 2-Ethoxyethanol	n.d.	0.005	
乙二醇乙醚乙酸酯 / 2-ethoxyethyl acetate	n.d.	0.05	
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 / 1,2-	n.d.	0.05	
Benzenedicarboxylic acid, di-C7-11-branched and linear			
alkyl esters			
聯氨 / Hydrazine	n.d.	0.05	
N-甲基吡咯烷酮 / 1-methyl-2-pyrrolidone	n.d.	0.05	
1,2,3-三氯丙烷 / 1,2,3-trichloropropane	n.d.	0.05	
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯, 富C7 / 1,2-	n.d.	0.05	
Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,			
C7-rich	<u> </u>		
砷酸 / Arsenic acid	n.d.		
砷酸鈣 / Calcium arsenate	n.d.	-	
种酸鉛 / Trilead diarsenate	n.d.		
疊氮化鉛 / Lead diazide, Lead azide	n.d.		
中性斯蒂酚酸鉛 / Lead styphnate	n.d.	<u> </u>	
苦味酸鉛 / Lead dipicrate	n.d.		
鉻酸鉻 / Dichromium tris (chromate)	n.d.	-	
氫氧化鉻酸鋅鉀 / Potassium hydroxyoctaoxodizincatedi-	n.d.		
chromate			

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備註(Note):

A. 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.)

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

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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