



設計驗證
工程課
2025 -04- 24
發行

雄業實業股份有限公司

樣 品 承 認 書



客　　戶：	鈺緯科技
料　　號：	3MDLTWME030(M1646)
品　　名：	BASE
日　　期：	114/4/18
送樣數量：	3　　PCS



REV.	DATE	DESCRIPTION	BY	ARRD

3	MDLTWME060	WHITE (D009)		M1706	
2	3MDLTWME030	WHITE (5897)		M1646	
1	3MDLTWME020	BLACK (5816)		M1712	
	PART No.	PAINTING COLOR	USED ON	APPD No.	REMARK

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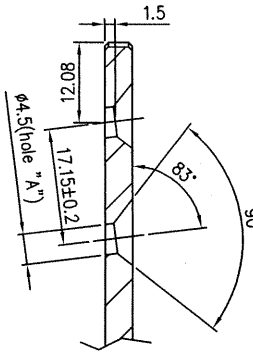
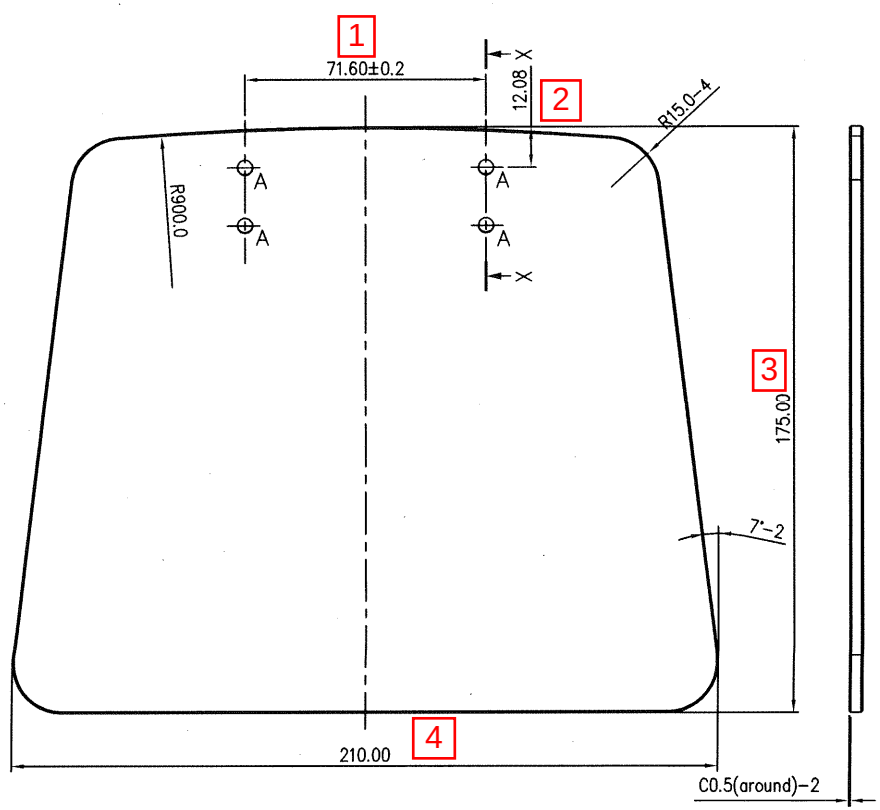
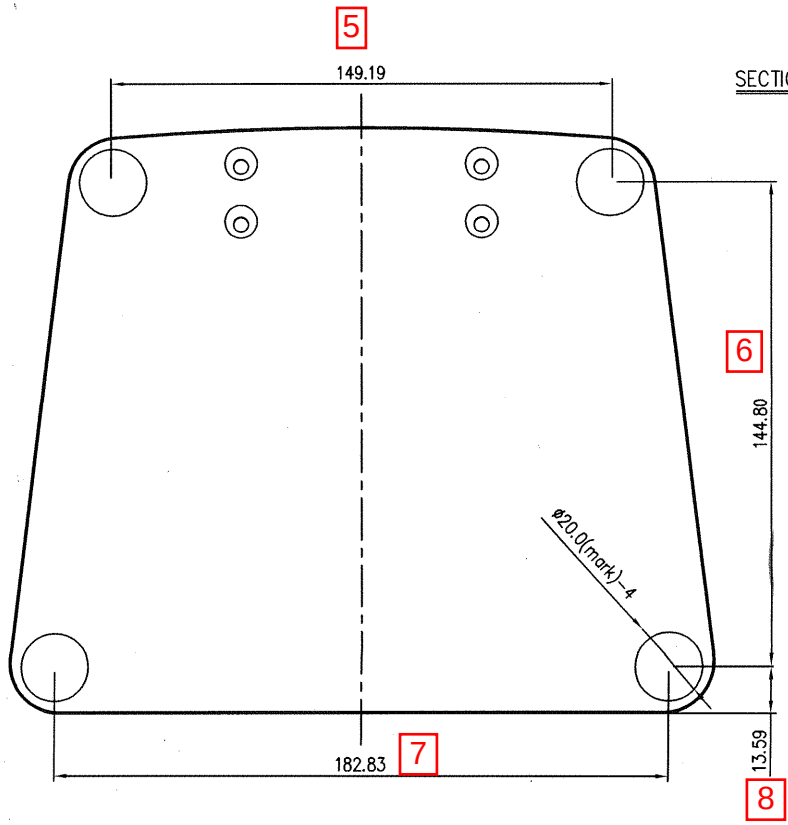
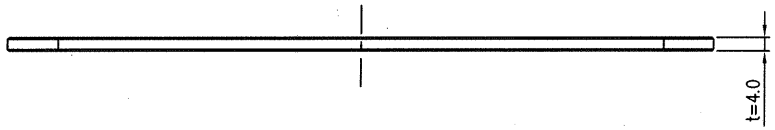
益華科技開發股份有限公司



SECTION X-X (2 : 1)







6. 鑽孔及CNC毛邊須去除.
5. 顏色色差 ：與標準色板對打ΔE ＝ ＜ 1.0, 前後批須同色相 .
4. 尺寸依據圖面為主, 毛邊, 切斷面, 參照承認樣品.
3. 織紋烤漆顏色及紋路請參照色板.
2. 不可有髒污及油污 .

註 ：1. 需符合RoSH.

THIRD ANGLE PROJECTION	UNITS : mm	SCALE : 1 / 1	SHEET : 1 / 1	MODEL NO.: METAL TILT STAND
	MATERIAL :spcc,t4.0		TREATMENT : painting	
DSGD by steveyang	2012/11/20	PART NAME: BASE		
APPD by	3/1/2017	PART NO.: SEE NOTES		VER. 0
APPD No. : SEE NOTES	FILE NAME : MDLTWMEBAS	DMA Laboratories ,Ltd.		

Test Result	

DIVA FAI DATA SHEET

Part Number :	3MDLTWME030(M1646)	Supplier :	雄業	Date:	2025/4/18
Part Description :	BASE			Cavity / Tool # :	
Revision :	0	Material Spec:	SPCC T=4.0mm	Inspector:	李宥廷

MOI-Method of inspection abbreviation: HG = Height gauge, MIC = Micrometer, DC = Dial Caliper, P = Protractor, OC = Optical Comparator, CG = Checking Gauge, CMM = Coordinate Measuring Machine, OMM = Optical Coordinate Measuring Machine, HT = Hardness Trester, TG = Thickness Gauge, VIS = D

OTHER:

DRAWING SPECIFICATIONS						INSPECTION RESULTS							INSPECTION ANALYSIS					
						Sample Number							% Tolerance		Alert/Rej		Supplier	RD Engineering
ITEM	LOCATION	NOMINAL	+TOL	-TOL	Method	1	2	3	1	2	3	Mean	UPPER	LOWER	HIGH	LOW	Remarks	Disposition
1	C3	71.60	0.20	0.20		**71.720**	**71.740**	**71.740**	***0.120***	***0.140***	***0.140***	***71.733***	**70%**	**0%**	**Alert**			
2	C4	12.08	0.20	0.20		**12.220**	**12.200**	**12.220**	***0.140***	***0.120***	***0.140***	***12.213***	**70%**	**0%**	**Alert**			
3	E6	175.00	0.50	0.50		**175.120**	**175.160**	**175.200**	***0.120***	***0.160***	***0.200***	***175.160***	**40%**	**0%**				
4	G3	210.00	0.50	0.50		**210.100**	**210.060**	**210.140**	***0.100***	***0.060***	***0.140***	***210.100***	**28%**	**0%**				
5	C9	149.19	0.50	0.50		**149.260**	**149.300**	**149.280**	***0.070***	***0.110***	***0.090***	***149.280***	**22%**	**0%**				
6	E11	144.80	0.50	0.50		**144.860**	**144.920**	**144.900**	***0.060***	***0.120***	***0.100***	***144.893***	**24%**	**0%**				
7	G9	182.83	0.50	0.50		**182.920**	**182.960**	**182.900**	***0.090***	***0.130***	***0.070***	***182.927***	**26%**	**0%**				
8	G11	13.59	0.20	0.20		**13.620**	**13.570**	**13.640**	***0.030***	***-0.020***	***0.050***	***13.610***	**25%**	**10%**				
		以下空白																

Instructions:
1.Inspector mest fillout the yellow area.
2. The table will automatically calculate the data in green area.

雄業實業股份有限公司

■ 組立
□ 沖壓

製程作業標準書

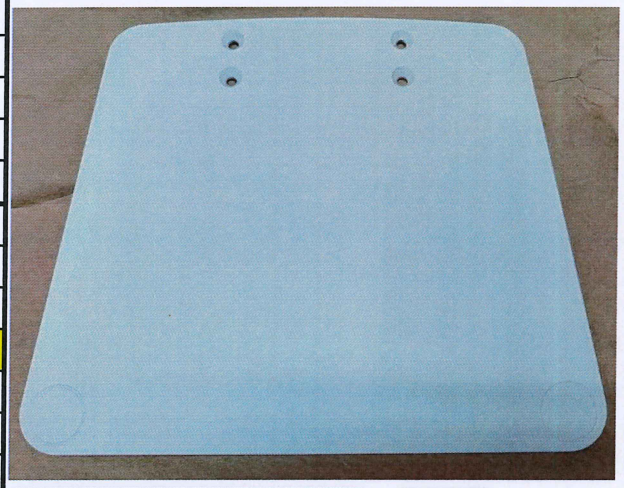
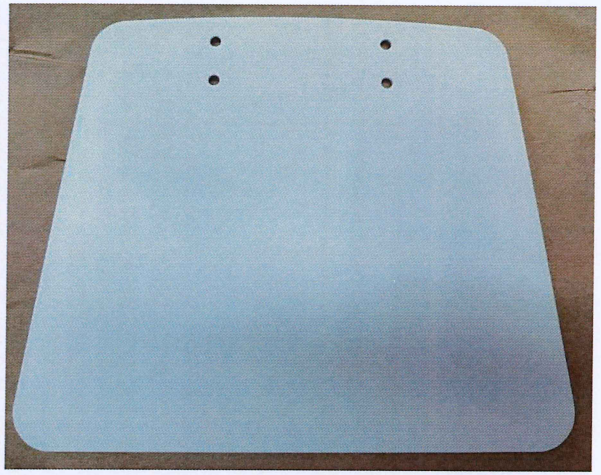
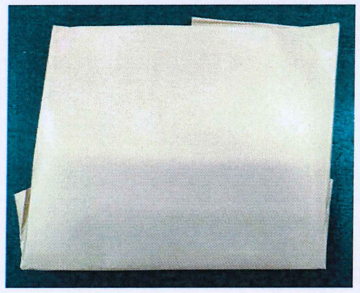
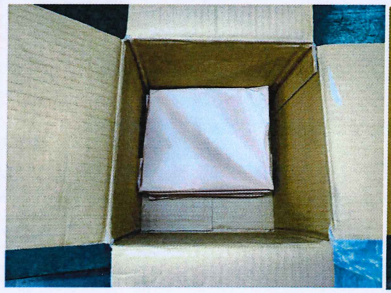
頁次：1/1

文件編號: PA-SOP-3MDLTWME030-A0

客戶	鈺緯	機種		料號	3MDLTWME030(M1646)		品名	BASE BLACK 5816
工段		作業別	外觀檢查 包裝	機台編號		噸數	材質	酸洗板 4.0t

使用工具/機台設定		零組件/數量	
1		1	3-1號箱
2		2	
3		3	
4		4	

工序內容	
1	烤漆-WHITE 5897
2	單一包裝 10pcs/箱
3	掛勾痕要補漆
4	
5	
6	
7	
8	
9	
10	


作業重點	
1	不可變形、壓傷、刮傷、生鏽、油汙
2	刮傷小於0.15MM不計 大於0.15-0.25MM一邊一個全部2個
3	汙點小於0.35不計 大於0.5mm一邊一個全部2個
4	烤漆異物小於0.5允許一個
5	
6	

不良履歷			
1		4	
2		5	
3		6	

雄業實業股份有限公司 文管中心 113.7.12 發行章

核准	張緒杰	審核		製表	李祺媗

製表日期	版本	修定內容
113.07.10	A0	新訂

測試報告
Test Report

號碼(No.): EKR24701401　　日期(Date): 15-Aug-2024　　頁數(Page) : 1 of 8

中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1, CHUNG KANG RD., HSIAO KANG, KAOHSIUNG 81233, TAIWAN, REPUBLIC OF CHINA)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：

送樣廠商(Sample Submitted By)	:	中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
樣品名稱(Sample Name)	:	熱軋酸洗塗油鋼捲 (HOT ROLLED PICKLED-AND-OILED COIL)

==========

收件日(Sample Receiving Date)	:	23-Jul-2024
測試期間(Testing Period)	:	23-Jul-2024 to 15-Aug-2024

測試需求(Test Requested) : 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

結　論(Conclusion) : 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

報告簽署人/張伯睿 博士/部經理
Ray Chang, Ph.D./ Department Manager
Signed for and on behalf of SGS TAIWAN LTD.
化學實驗室-高雄/Chemical Laboratory-Kaohsiung

PIN CODE: 8B456E4A

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中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1, CHUNG KANG RD., HSIAO KANG, KAOHSIUNG 81233, TAIWAN, REPUBLIC OF CHINA)

測試部位敘述 (Test Part Description)

No.1 : 銀灰色金屬 (SILVER GRAY METAL)

測試結果 (Test Results)

(Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
鎘 (Cd) (Cadmium (Cd))	依據IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(According to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb))		mg/kg	2	n.d.	1000
汞 (Hg) (Mercury (Hg))	依據IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(According to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 (Hexavalent Chromium) Cr(VI) (#2)	依據IEC 62321-7-1: 2015，以紫外光-可見光分光光度計分析。(According to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	μg/cm²	0.1	n.d.	-
一溴聯苯 (Monobromobiphenyl)	自訂方法(文件編號 : TESP-KE-082)參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(In house method (Doc. No. : TESP-KE-082) refer to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
一溴聯苯醚 (Monobromodiphenyl ether)	自訂方法(文件編號 : TESP-KE-082)參考 IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(In house method (Doc. No. : TESP-KE-082) refer to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	依據IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(According to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	1000

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備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. (#2) =
   a. 當六價鉻結果大於0.13 μg/cm²，表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr(VI).)
   b. 當六價鉻結果為n.d. (濃度小於0.10 μg/cm²)，表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating)
   c. 當六價鉻結果介於 0.10 及 0.13 μg/cm² 時，無法確定塗層是否含有六價鉻。(The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.)
6. 除非另有說明，參照ILAC-G8:09/2019決定規則，採用簡單允收規則之二分法(w=0)進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)
7. 申請人提交的產品是用於電機電子設備之原物料。(The product from the applicant submitted is a raw material which is used for electric and electronic equipment.)

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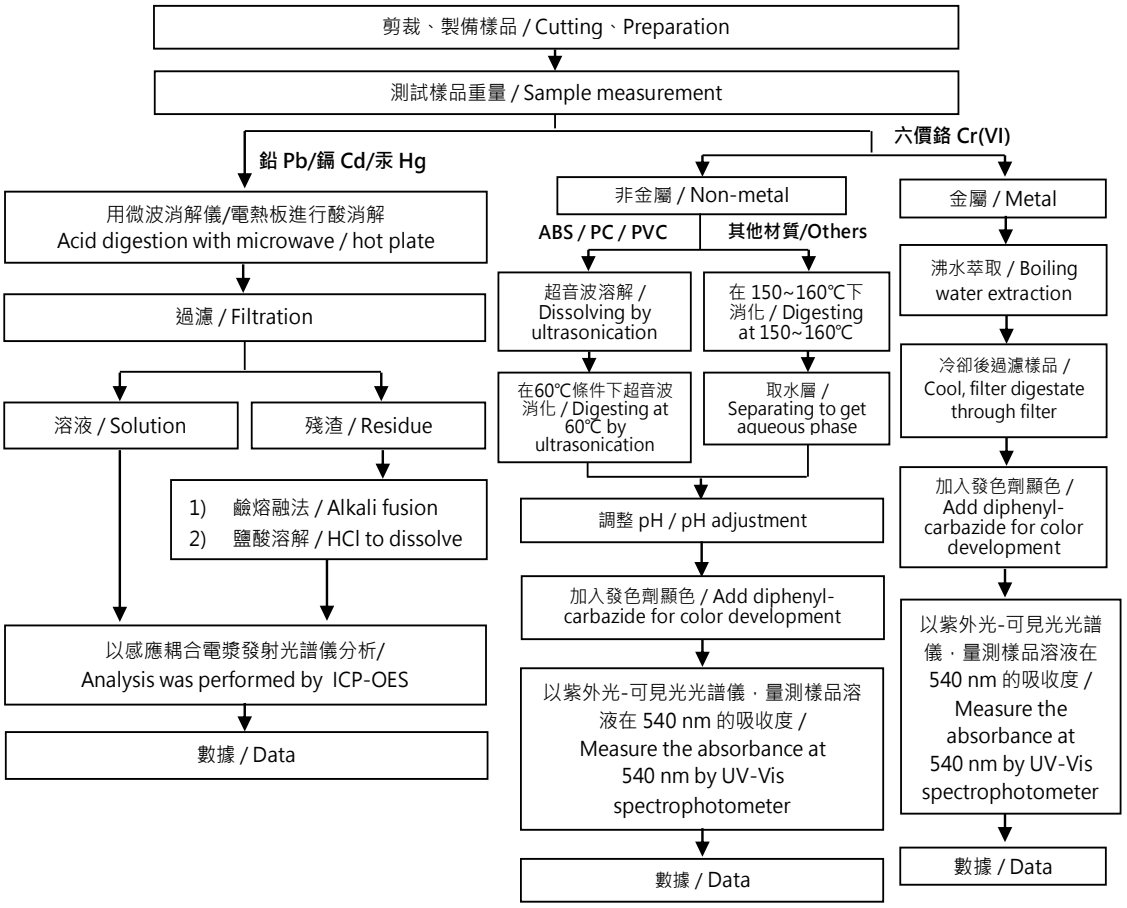
重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）
These samples were dissolved totally by pre-conditioning method according to below flow chart.
（Cr^{6+} test method excluded）



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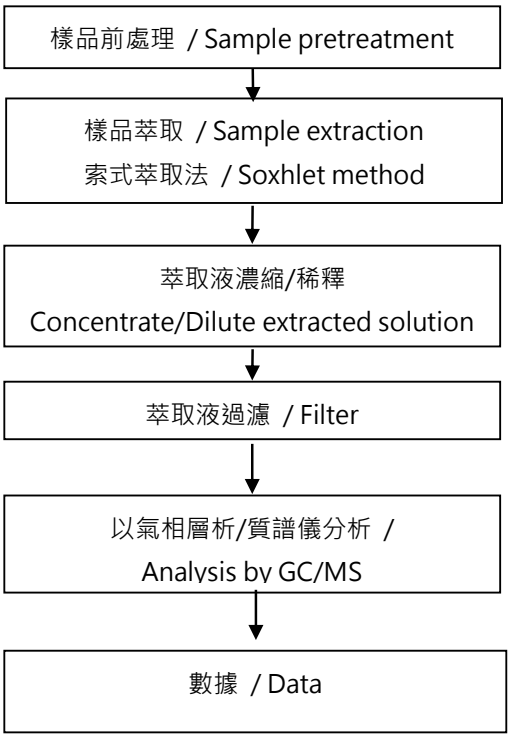
高雄市小港區中鋼路1號 (1, CHUNG KANG RD., HSIAO KANG, KAOHSIUNG 81233, TAIWAN, REPUBLIC OF CHINA)

多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART



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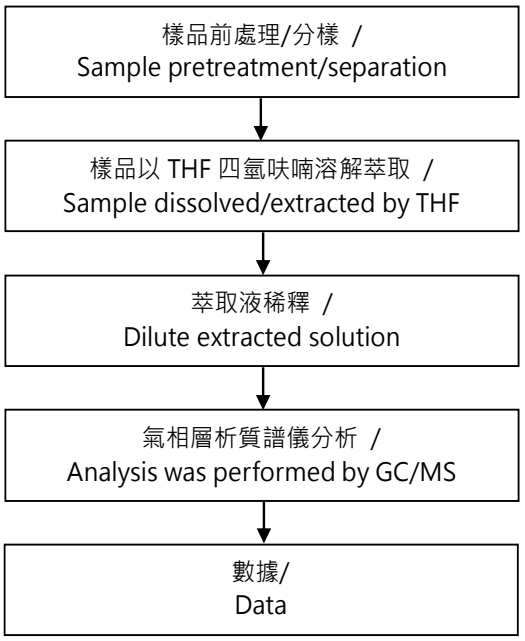
中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1, CHUNG KANG RD., HSIAO KANG, KAOHSIUNG 81233, TAIWAN, REPUBLIC OF CHINA)

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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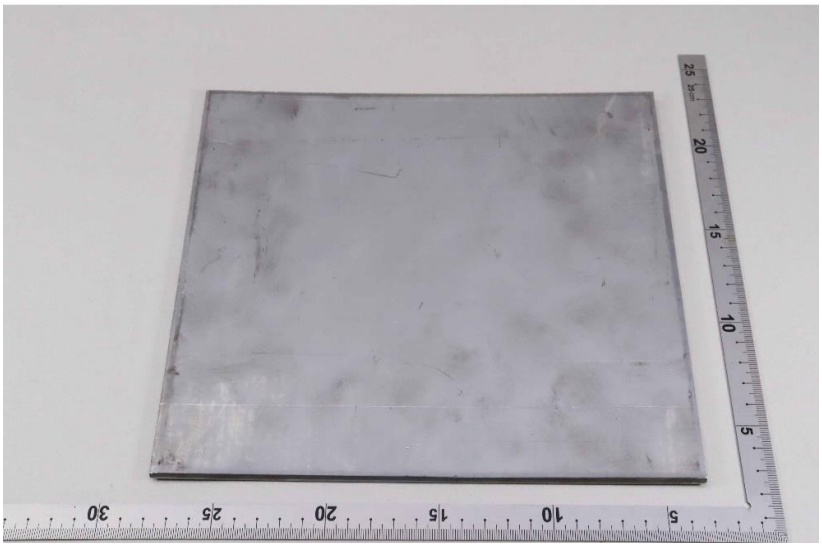
*** 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. ***
(The tested sample / part is marked by an arrow if it's shown on the photo.)

EKR24701401



** 報告結尾 (End of Report) **

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CHINA STEEL
中鋼公司

安全資料表(SDS)

一、物品與廠商資料

物品名稱：線材、棒鋼、鋼板、熱軋鋼捲片、熱軋 P/O(Wire Rods，Steel Bars，Steel Plates，Hot-Rolled Steel Coils & Sheets & Plates、Hot-Rolled P/O)	
物品編號：	
製造商或供應商名稱、地址及電話：中國鋼鐵股份有限公司 812 高雄市小港區中鋼路 1 號	
緊急聯絡電話：(07)802-1111	傳真電話：(07)8039553

二、危害辨識資料

重要物理性及 化學性危害與效應	1.與強酸接觸會起反應產生可燃性氫氣。 2.銲接或加熱會產生氧化鐵燻煙。

三、成分辨識資料

純物質：

物品中（英）文名稱：鋼(STEEL)		
同義名稱：		
化學文摘社登記號碼(CAS.NO.)：鐵：07439-89-6		
危害物質成分(成分百分比)：鐵>96%		
危害物質成分之中（英）文名稱	濃度或濃度範圍(成分百分比)	危害物質分類及圖式
鐵(Fe)	>96%	

四、急救措施

不同暴露途徑之急救方法：

- 吸入：本產品形態食入之可能性相當低。
- 眼睛接觸：立即將眼皮撐開，用大量水沖洗 15 分鐘。本產品形態進入眼睛之可能性相當低。
- 皮膚接觸：立即用肥皂和水清洗，本產品形態造成刺激皮膚之可能性相當低。

五、滅火措施

適用滅火劑：使用適合週遭火災之滅火器。
滅火時可能遭遇之特殊危害：1.此物若以大塊型式存在時，不可燃。 2.若以微細粉末存在時，遇火源有引起爆炸的危險。 3.本產品若熔化或燃燒，則會產生毒性或刺激性蒸汽，請使用個人呼吸防護器具。

六、洩漏處理方法

本產品為固體狀不適用。

七、安全處置與儲存方法

一般使用：本產品邊緣為尖銳薄片或捲片，進行各項作業必須使用個人防護器具，所有員工必須接受訓練以安全地進行各項作業。
儲存建議：建議儲存於可防止實體破壞、濕氣、直接日曬之場所。

八、暴露預防措施

重要成分	化學文摘社登記號碼 CAS NO.	重量比例 (%)	暴露限制	
			OSHA PEL	ACGIH TLV
鐵 Iron	7439-89-6	96	未建立	未建立

工程控制：

1. 在進行燃燒、銅鑄、切割、研磨、打光、銲接或其他機械加工時，應使用機械通風裝置。
2. 若在進行機械加工時，有產生粉塵或微粒狀物質，建議採用局部及一般通風裝置以預防過多的危害物質暴露。

個人防護設備：

眼睛防護：在進行本產品作業時請穿戴化學安全護目鏡。

呼吸防護：如需符合暴露標準 在進行切割、研磨、打光或銲接等機械加工作業時，應使用自攜式呼吸防護具。 皮膚防護：1.使用皮革或防割傷手套以免被尖銳薄片或捲片割傷。 2.使用防滲透手套以免被皮膚接觸表面油污。 身體防護：1.連身式防護衣。 2.工作鞋。 3.工作區要有淋浴/沖眼設備。
衛生措施： 1.工作場所嚴禁飲用、抽煙或飲食。 2.處理此物後，須徹底洗手。

九、物理及化學性質

物質狀態：固體	形狀：薄片或捲片
顏色：金屬性灰色	氣味：無味
pH 值：不適用	閃火點：不適用
熔解溫度：1535℃	
自燃溫度：不適用	爆炸界限：不適用
密度：7.5 – 8.0（水＝1）	溶解度：不溶於水
熔點/凝固點：不適用	揮發速率：不適用
易燃性(固態、氣態）：不適用	分配係數(正辛醇/水）：不適用

十、安定性及反應性

安定性：正常狀況下安定
應避免之狀況：濕氣及腐蝕性物質會氧化本物質
應避免之物質：酸類、A 類及 B 類爆炸物、強性氧化物、腐蝕劑
危害分解物：引燃或熔解可能會產生有產生毒性或刺激性蒸汽

十一、毒性資料

急毒性(Acute Effects)：

鐵(Iron) LD50(測試動物暴露途徑)：30 g/kg(大鼠，吞食)

過度暴露效應(Symptoms of Overexposure)：

鐵**(Iron Oxide)**：過度暴露或重覆暴露於高濃度狀況下，可能造成塵肺病 pneumoconiosis，吸入氧化鐵可能會刺激眼睛、鼻子及喉嚨。

矽**(Silicon)**: 主要為厭惡性粉塵(Nuisance Dust)，可能會刺激眼睛及黏液薄膜(Mucous Membranes)，本產品型態無此危害。

十二、生態資料

現有資料無影響生態之考量

十三、廢棄處置方法

廢棄處置方法：1.參考相關法規處理。
2.相關法規可能會限制金屬性廢棄物之處置。
3.建議採取回收金屬性廢棄物。

十四、運送資料

無特殊運送方法

十五、法規資料

適用法規：
職業安全衛生設施規則

危害性化學品標識及通識規則 勞工作業環境空氣中有害物容許濃度標準 事業廢棄物貯存清除處理方法及設施標準

十六、其他資料

參考文獻		
製表者單位	名稱：中國鋼鐵股份有限公司	
	地址/電話：812 高雄市小港區中鋼路 1 號，Tel：(07)8021111	
製 表 人	職稱：工 程 師	姓名（簽章）：曾文宏
製表日期	2024.01.05	
備　　註	1. 本安全資料表僅供參考，中國鋼鐵股份有限公司對使用本資料不承擔任何法律責任或提供任何保證。 2. 本安全資料表之提供是基於對本產品的安全及健康危害相關資訊之最佳瞭解，以安全地進行本產品之各項作業及處理。 3. 每位進行本產品之各項作業及處理之人員應先閱讀本安全資料表，瞭解如何進行本產品之各項作業及處理；也應考量本產品與其他製造廠商產品可能之應用。	

測試報告

Test Report

號碼(No.): ETR24304312M01　　日期(Date): 02-Apr-2024　　頁數(Page): 1 of 9

瑞怡造漆有限公司 (JUI-YI PAINTS CO., LTD.)
桃園市龜山區山鶯路171之1號 (NO. 171-1, SHANYING RD., GUEISHAN DISTRICT, TAOYUAN CITY 333, TAIWAN (R.O.C.))

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：

送樣廠商(Sample Submitted By)	:	瑞怡造漆有限公司 (JUI-YI PAINTS CO., LTD.)
樣品名稱(Sample Name)	:	SAMPLE IS BLENDED BY CLIENT:MIXED COLOR BAKING COATING(BLACK, WHITE, YELLOW, RED, GREEN, BLUE, PURPLE, SILVER, TEXTURE) (客戶自行調配之樣品:混色烤漆(黑、白、黃、紅、綠、藍、紫、銀、織紋))

==========

收件日(Sample Receiving Date)	:	20-Mar-2024
測試期間(Testing Period)	:	20-Mar-2024 to 27-Mar-2024

測試需求(Test Requested) : 依據客戶要求進行測試，測試項目請參閱測試結果表格。 (Testing item(s) is/are specified by client. Please refer to result table for testing item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

CHECK REPORT
PIN CODE: E2B4A82F

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測試報告
Test Report

瑞怡造漆有限公司 (JUI-YI PAINTS CO., LTD.)
桃園市龜山區山鶯路171之1號 (NO. 171-1, SHANYING RD., GUEISHAN DISTRICT, TAOYUAN CITY 333, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 灰色漆(客戶自行調配之樣品) (GRAY PAINT(SAMPLE IS BLENDED BY CLIENT))

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016，以離子層析儀分析。 (With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.

備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)；小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. 本報告為 ETR24304312 之異動報告。(This is the additional test report of ETR24304312.)

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測試報告
Test Report

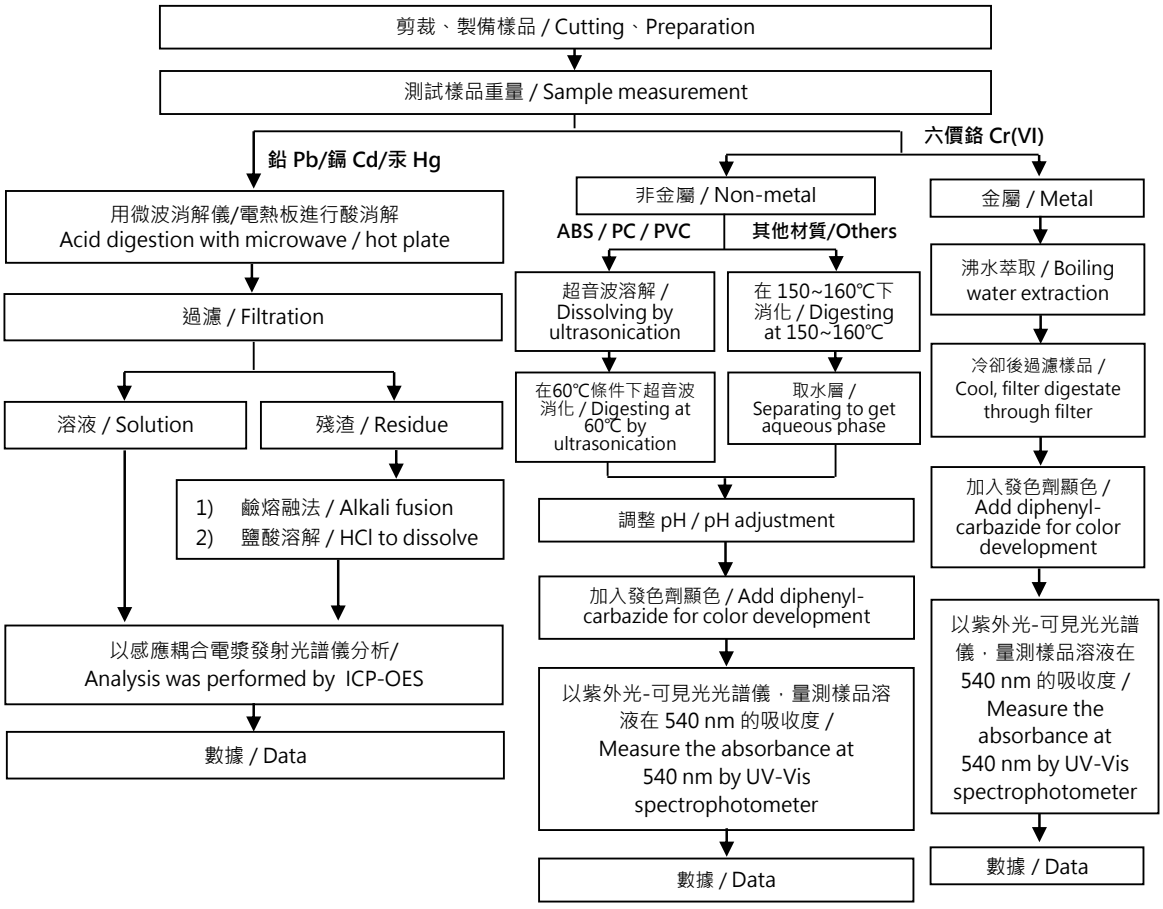
瑞怡造漆有限公司 (JUI-YI PAINTS CO., LTD.)
桃園市龜山區山鶯路171之1號 (NO. 171-1, SHANYING RD., GUEISHAN DISTRICT, TAOYUAN CITY 333, TAIWAN (R.O.C.))

重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）

These samples were dissolved totally by pre-conditioning method according to below flow chart.

（Cr^{6+} test method excluded）



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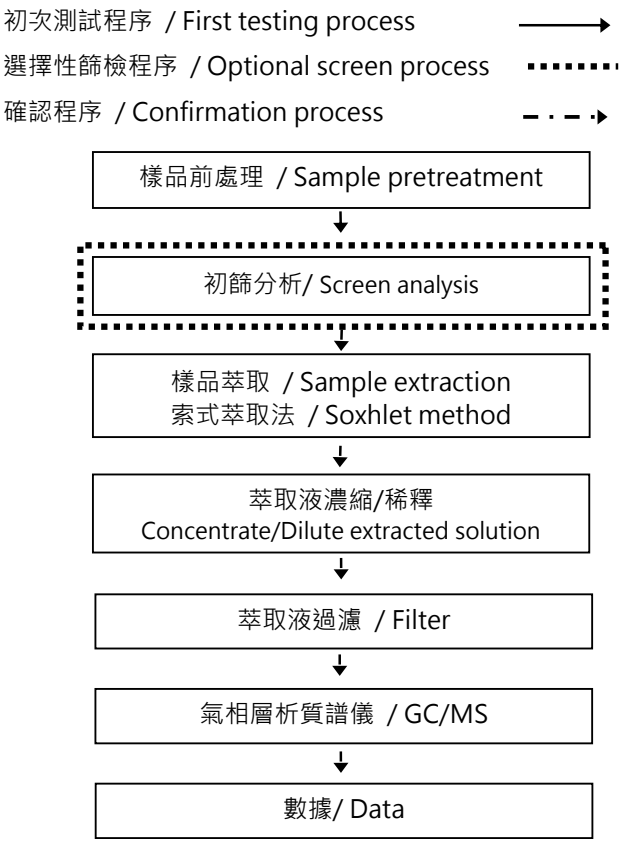
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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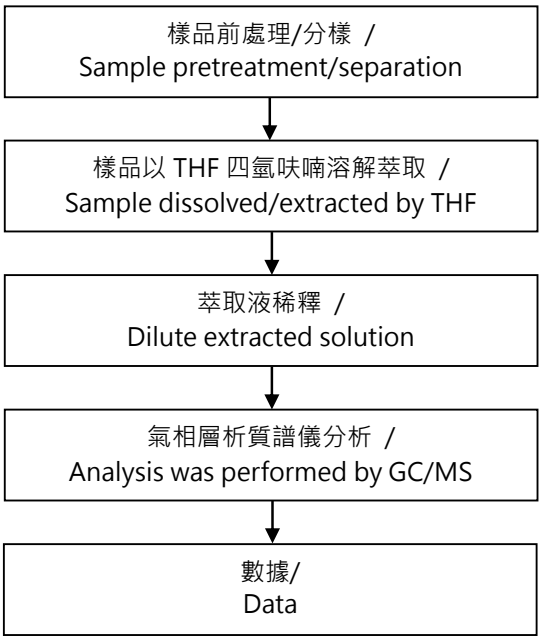
桃園市龜山區山鶯路171之1號 (NO. 171-1, SHANYING RD., GUEISHAN DISTRICT, TAOYUAN CITY 333, TAIWAN (R.O.C.))

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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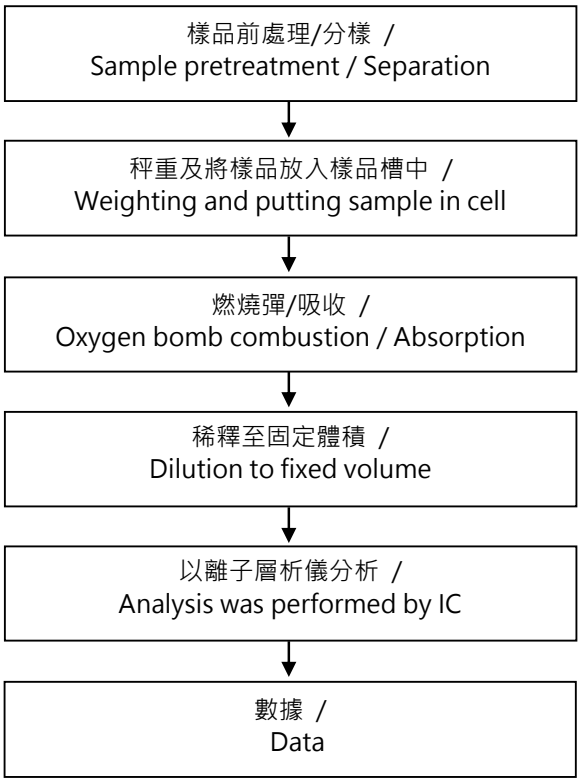
鹵素分析流程圖 / Analytical flow chart - Halogen



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測試報告
Test Report

瑞怡造漆有限公司 (JUI-YI PAINTS CO., LTD.)
桃園市龜山區山鶯路171之1號 (NO. 171-1, SHANYING RD., GUEISHAN DISTRICT, TAOYUAN CITY 333, TAIWAN (R.O.C.))

*** 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.)

ETR24304312



** 報告結尾 (End of Report) **

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安 全 資 料 表

一、化學品與廠商資料

物品名稱：混色烤漆
其他名稱：無
建議用途及限制使用：烤漆塗料用
製造者、輸入者或供應者名稱：瑞怡造漆有限公司
製造者、輸入者或供應者地址：桃園市龜山區山鶯路171-1號
緊急聯絡電話/傳真電話：03-3203399

二、危害辨識資料

化學品危害分類：1.物理性危害:易燃液體第 3 級
2.急毒性物質:第 3 級(吸入)
3.腐蝕/刺激皮膚物質:第3級
4.嚴重損傷/刺激眼睛物質:第2級

標示內容：

- 象徵符號：



- 警示語：危險！
- 危害警告訊息：會刺激眼睛、皮膚、反胃、頭痛、困倦、肺充血、抽筋、昏迷、噁心、暈眩、失去意識、嘔吐窒息。
- 危害防範措施：如遇意外或覺得不適，立即洽詢醫療；容器置於通風良好的地方，遠離引燃品-禁止抽煙；穿戴適當的防護衣物、手套、戴眼罩、護面罩。

其他危害：接觸

三、成分辨識資料

中英文名稱：請參考以下混合物事項說明
同義名稱：烤漆
化學文摘社登記號碼(CAS No.)：請參考以下混合物事項說明
危害成分(成分百分比)：請參考以下混合物事項說明

混合物：

化學性質：溶劑

危害成份之 中文名稱	危害成份之 英文名稱	化 學 式	化學文摘社 登記號碼 CAS.NO.	濃度或濃度範圍 （成分百分比）
二甲苯	Xylene		1330-20-7	30
樹脂				70

安 全 資 料 表

四、 急救措施

不 同 暴 露 途 徑 之 急 救 方 法	
吸 入：	1.施救前先做好自身的防護措施，以確保自己的安全。2.移走污染源或將患者移到空氣新鮮處。3.若呼吸停止立即由受訓過的人施以人工呼吸；若心跳停止施行心肺復甦術。4.立即就醫。
皮膚接觸：	187- 立即緩和的刷掉或吸掉多餘的化學品。2.用水和非磨砂性肥皂徹底但緩和的清洗5分鐘或直到污染 物除去。3.沖水時脫掉污染的衣物、鞋子以及皮飾品(如錶帶、皮帶)。4.若沖洗後仍有刺激感,立即就醫。5.須將污染的衣物、鞋子以及皮飾品完全除污後再使用或丟棄。
眼睛接觸：	187- 立即緩和的刷掉或吸掉多餘的化學品。2.立即將眼皮撐開，用緩和流動的溫水沖洗污染的眼睛5分鐘或直到污染物除去。3.小心不要讓清洗的污水流入未受影響的眼睛。4.立即就醫。

食 入：	1.若患者即將喪失意識、已失去意識或痙攣，不可經口餵食任何東西。2.若患者意識清楚，讓其用水徹底漱口。3.不可催吐。4.給患者喝下240~300毫升的水。5.若患者自發性嘔吐，讓其身體向前傾以減低吸入危險，並讓其漱口及反覆給水。6.立即就醫。
最重要症狀及危害效應：抑制中樞神經系統，高濃度蒸氣可能導致缺氧而窒息。	
對急救人員之防護：戴防護手套，以免接觸污染物。	
對醫師之提示：—	

五、 滅火措施

適用滅火劑：二氧化碳、化學乾粉、泡沫。
滅火時可能遭遇之特殊危害：1.液體極易燃，室溫下可能被引燃。2.蒸氣比空氣重會傳播至遠處，遇火源可能造成回火。3.液體會浮在水面而擴散火勢。4.火場中的容器可能會破裂。5.會累積在封閉的地區。
特殊滅火程序：1.撤退並自安全距離或受保護的地點滅火。2.位於上風處以避免危險的蒸氣和有毒的分解物。3.滅火前先阻止溢漏，如果不能阻止溢漏且周圍無任何危險，讓火燒完，若沒有阻止溢漏而先行滅火，蒸氣會與空氣形成爆炸性混合物而再引燃。4.隔離未著火物質且保護人員。5.安全情況下將容器搬離火場。6.以水霧冷卻暴露火場的貯槽或容器。7.噴水以分散溢漏物並沖離引燃源。8.如果溢漏未引燃，噴水霧以分散蒸氣並保護試圖止漏的人員。9.以水柱滅火無效。10.大區域之大型火災，使用無人操作之水霧控制架或自動搖擺消防水瞄。11.儘可能徹離火場並允許火燒完。12.遠離貯槽。13.貯槽安全閥已響起或因著火而變色時立即徹離。14.未著特殊防護設備的人員不可進入。
消防人員之特殊防護裝備：消防人員必須配戴空氣呼吸器、消防衣及防護手套。

六、 洩漏處理方法

個人應注意事項：1.限制人員進入該區。2.穿戴合適的個人防護裝備。3.確定清理工作是由受過訓的人員負責。
環境注意事項：1.移開所有引燃源。2.提供洩漏區適當通風。3.通知政府安全衛生及環保相關單位。
清理方法：1.不要碰觸外洩物。2.在安全許可的情形下，設法阻止或減少溢漏。3.用不會和外洩物反應的泥土、沙或類似穩定且不可燃的物質圍堵外洩物。4.少量溢漏時，用不會和外洩物反應之吸收劑吸收。已污染的吸收劑和外洩物具有同樣的危害性，須置於加蓋並標示的適當容器裡。用水沖洗溢漏區域。5.大量溢漏時：連絡消防、緊急處理單位及供應商以尋求協助。

七、安全處置與儲存方法

安 全 資 料 表

處置：
1.此物質是易燃性和毒性液體，處置時工程控制應運轉及善用個人防護設備；工作人員應受適當有關物質之危險性及安全使用法之訓練。2.除去所有發火源並遠離熱及不相容物。3.工作區應有“禁止抽煙”標誌。4.如所有桶槽、轉裝容器和管線都要接地，接地時必須接觸到裸金屬。5.當調配之操作不是在密閉系統進行時，確保調配的容器和接收的輸送設備和容器要等電位連接。6.空的桶槽、容器和管線可能仍有具危害性的殘留物，未清理前不得從事任何焊接、切割、鑽孔或其它熱的工作進行。7.作業場所使用不產生火花的通風系統，設備應為防爆型。8.保持走道和出口暢通無阻。9.作業避免產生霧滴或蒸氣，在通風良好的指定區內操作並採最小使用量，操作區與貯存區分開。10.不要與不相容物一起使用(如強氧化劑)。11.使用相容物質製成的貯存容器，分裝時小心不要噴灑出來。12.不要以空氣或惰性氣體將液體自容器中加壓而輸送出來。13.除非調配區以耐火結構隔離，否則不要在貯存區進行調配工作。14.使用經認可的易燃性液體貯存容器和調配設備。15.不要將受污染的液體倒回原貯存容器。16.容器要標示，不使用時保持緊密並避免受損。17.操作區應有適當的滅火器和清理溢漏的設備。

儲存：
1.貯存在陰涼、乾燥、通風良好以及陽光無法直接照射的地方，遠離熱源、發火源及不相容物。2.貯存設備應以耐火材料構築。3.使用不產生火花的通風系統、防爆設備和安全的電器系統。4.地板應以不滲透性材料構築以免自地板吸收。5.門口設斜坡或門檻或挖溝槽使洩漏物可排放至安全的地方。6.貯存區應標示清楚，無障礙物，並允許指定或受過訓的人員進入。7.貯存區與工作區應分開；遠離升降機、建築物、房間出口或主要通道貯存。8.貯存區附近應有適當的滅火器和清理溢漏設備。9.定期檢查貯存容器是否破損或溢漏。10.檢查所有新進容器是否適當標示並無破損。11.限量貯存。12.貯存於適當且標示的容器；保持密閉，避免容器堆積及受損。13.以相容物質製成的貯存容器裝溢漏物。14.空桶應分開貯存並保直密閉。15.貯桶接地並與其它設備等電位連接。16.貯存易燃液體的所有桶子應安裝釋壓閥和真空釋放閥。17.依化學品製造商或供應商所建議之貯存溫度貯存，必要時可安裝偵溫警報器，以警示溫度是否過高或過低。18.避免大量貯存於室內，儘可能貯存於隔離的防火建築。19.貯槽之排氣管應加裝滅焰器。20.貯槽須為地面貯槽，底部整個區域應封住以防滲漏，周圍須有能圍堵整個容量之防溢堤。

八、 暴露預防措施

工程控制：
1.因其易揮發性及易燃性，須使用局部排氣或製程密閉。2.單獨使用不會產生火花且接地之通風系統。3.排氣口直接排到室外。4.供給充分新鮮空氣以補充排氣系統抽出的空氣。

危害性物質 中文名稱	危害性物質 英文名稱	八小時日時量平均容許濃度,TWA	最高容許濃度 CEILING	短時間時量平均容許濃度 STEL	生物指標 BEI
二甲苯	Xylene	100ppm	—	125ppm	下班後尿中每克肌酸酐含甲基馬尿酸1.5g

個人防護設備：
呼吸防護：1500ppm以下：供氣式呼吸防護具。
1100ppm以下：連續流動供氣式、全面型供氣式自攜式呼吸防護具。
未知濃度：正壓自攜式呼吸防護具、正壓全面型供氣式呼吸防護具輔以正壓自攜式呼吸防護具。
逃生：含有機蒸氣濾罐之氣體面罩、逃生型自攜式呼防護具。
手部防護：防滲手套，材質以類橡膠、聚乙烯醇、Telfon、Viton、4H、Chemrel、Responder、CPF 3、Tychem 10000為佳。
眼睛防護：化學安全防濺護目鏡、護面罩。
皮膚及身體防護：上述材質之連身式防護衣，工作靴。

衛生措施：1.工作後儘速脫掉污染之衣物，洗淨後才可再穿戴或丟棄，且須告知洗衣人員污染物之危害性。
2.工作場所嚴禁抽煙或飲食。3.處理此物後，須徹底洗手。4.維持作業場所清潔。

九、物理及化學性質

外觀：有色液體	氣味：水果味
嗅覺閾值：0.063~7.4ppm(偵測)、0.038~12ppm(覺察)	熔點：－77.9℃

安 全 資 料 表

pH 值：—	沸點/沸點範圍：137~140℃
易燃性(固體，氣體)：—	閃火點：27~32℃
分解溫度：—	測試方法：閉杯
自燃溫度：425℃	爆炸界限：1.0~7.0%
蒸氣壓：15mmHg(25℃)	蒸氣密度：4(空氣＝1)
密度：0.882(水＝1)	溶解度：7g/L 水(20℃)
辛醇/水分配係數(log Kow)：1.79~2.06	揮發速率：12(乙醚＝1)

危害性物質 中文名稱	危害性物質 英文名稱	外觀 (25℃)	沸點 ℃	比重 (25℃)	水中 溶解度 mg/l	閃火點 (閉杯) ℃	爆炸界限,% 爆炸下限	爆炸上限
二甲苯	Xylene	無色 液體	137-140	0.86	130	27~32	1	7

十、安定性及反應性

安定性：正常狀況下安定
特殊狀況下可能之危害反應：1.強氧化劑(如過氧化物、硝酸鹽、過氯酸)：增加火災和爆炸的危險。2.氯：激烈反應而著火。3.氟：激烈爆炸。4.二氧化氮：會爆炸。
應避免之狀況：熱、名火、靜電、火花和引燃源。
應避免之物質：強氧化劑、氟、氯、二氧化氮。
危害分解物：—

十一、毒性資料

暴露途徑：皮膚、吸入、眼睛、食入

症狀：頭痛、噁心、嘔吐、暈眩、疲勞、頭昏眼花、暴躁、食慾不振、器官協調功能降低、失去知覺、皮膚乾裂有灼熱感、紅腫、角膜灼傷、平衡失調、心律不整、呼吸困難。

急毒性：

皮膚：**1.**其液體可能引起皮膚刺激。**2.**會經由皮膚吸收，症狀與吸入及食入相似。

吸入：**1.**其蒸氣刺激鼻及咽，濃度較高時刺激增加。**2.**暴露於**15~295ppm**下**2**分鐘~**4**小時，輕微刺激鼻及咽。**3.**濃度超過**3300ppm**，會極刺激而無法忍受。**4.**更高濃度下造成中央神經系統抑制的症狀，包括頭痛、頭暈、嘔吐及無知覺。

食入：**1.**可能產生口及咽的刺激。**2.**大量食入引起抑制中樞神經系統的症狀如頭痛、衰弱、暈眩、噁心。

眼睛：**1.**其蒸氣或其液體會造或刺激，**200~300ppm**下輕微刺激，**3300ppm**下明顯刺激，更高濃度會造成眼睛充血及流淚。**2.**濺到所引起的眼睛刺激於**48**小時內會康復。

LD50(測試動物、吸收途徑：大鼠、吞食**)：13100 mg/kg**

LC50(測試動物、吸收途徑：大鼠、吸入**)：2000 ppm/4H**

500mg/24H(兔子，皮膚**)**：造成中度刺激

100ppm/(兔子，眼睛**)**：造成中度刺激

慢毒性或長期毒性：**1.**長期或再暴露可造成皮膚乾裂及刺激，曾有一皮膚炎的報導。

1500 ppm/7H(懷孕**7-16** 天雌鼠，吸入**)**造成胚胎中毒及發育不正常。

十二、生態資料

生態毒性：**LC50**（魚類）：**18mg/l/96H**
EC50（水生無脊椎動物）：－
生物濃縮係數（**BCF**）：**4-14**

持久性及降解性：
1.生物含氧需求度（**BOD**）為**0.15~0.5LB/LB**（**5**天）。
2.釋放至土壤與水中，預期會有生物分解反應。
3.釋放至大氣中，與氫氧自由基作用的半衰期約為**6**天。
4.對水中生物具中度毒性。
半衰期（空氣）：**144**小時
半衰期（水表面）：**178~27156**小時
半衰期（地下水）：－
半衰期（土壤）：－

生物蓄積性：可能不會蓄積。動物實驗中發現在體內會很快地分解成醋酸及丁醇，藉由尿排出。

土壤中之流動性：－

其他不良效應：－

十三、廢棄處置方法

廢棄處置方法：
1. 參考相關法規處理。
2. 依照倉儲條件貯存待處理的廢棄物。
3. 可採用特定的焚化或衛生掩埋法處理。

十四、運送資料

聯合國編號：1866

聯合國運輸名稱：樹脂溶液

運輸危害分類：第三類易燃液體

包裝類別：Ⅲ

海洋污染物（是/否）：否

特殊運送方法及注意事項：－

十五、法規資料

適用法規：
職業安全衛生設施規則
危險性化學品標示及通識規則
特定化學物質危害預防標準
勞工作業環境空氣中有害物容許濃度標準
道路交通安全規則
事業廢棄物貯存清除處理方法及設施標準

安 全 資 料 表

十六、其他資料

參考文獻	1.工業技術研究院工業安全衛生技術發展中心物質安全資料表範例 2.CHEMINFO 資料庫，CCINFO 光碟，99-2 3.HAZARDTEXT 資料庫，TOMES PLUS 光碟，Vol.41 ，1999 4.RTECS 資料庫，TOMES PLUS 光碟，Vol.41 ，1999 5.HSDB 資料庫，TOMES PLUS 光碟，Vol.41 ，1999 6.危害化學物質中文資料庫，環保署	
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