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測試報告

Test Report

號碼(No.): CE/2015/44973

日期(Date): 2015/05/04

頁數(Page): 1 of 10

協星企業有限公司

HSIEH SHENG ENTERPRISE CO., LTD.

彰化縣福興鄉魯社村魯社街17之3號

NO. 17-3, FAN SHE STREET, FUHSING HSIANG, CHANG HUA HSIEN, TAIWAN

SGS TAIWAN LTD. TAIPEI

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/on behalf of the applicant as):

送樣廠商(Sample Submitted By)	:	協星企業有限公司 (HSIEH SHENG ENTERPRISE CO., LTD.)
樣品名稱(Sample Description)	:	NBR
樣品型號(Style/Item No.)	:	NBR1052US
收件日期(Sample Receiving Date)	:	2015/04/24
測試期間(Testing Period)	:	2015/04/24 TO 2015/06/04

測試需求(Test Requested):

- (1) 依據客戶要求, 參考RoHS 2011/65/EU Annex II 指令測試鉛、鎘、汞、六價鉻、多溴聯苯、多溴聯苯醚。 (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
- (2) 依據客戶要求, 參考 WTO/TBT 通報 G/TBT/N/EU/256, 檢測 DBP, BBP, DEHP, DIBP. (As specified by client, with reference to G/TBT/N/EU/256 of WTO/TBT to test DBP, BBP, DEHP, DIBP.)
- (3) 依據客戶要求, 檢測 PAHs 及其他測試。 / As specified by client, to test PAHs and other item(s).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

From NECO - Rubber Supplier



NECO TECHNOLOGY INDUSTRY CO., LTD.

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

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光輝橡膠有限公司

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協昌企業有限公司

HSIEH SHENG ENTERPRISE CO., LTD.

彰化縣福興鄉春社村春社街17之3號

NO. 17-3, PAN SHR STREET, FUBSING HSIANG, CHANG HUA HSIEN, TAIWAN

測試結果(Test Results)

測試部位(PART NAME)No.1 : 黑色橡膠 (BLACK RUBBER)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	8
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測。 / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-89-5)	mg/kg	參考IEC 62321-8 (111/321/CD), 以氣相層析儀/質譜儀檢測之。 / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.
鄰苯二甲酸二丁酯 / DBP (Di-butyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.
鄰苯二甲酸丁苄酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n.d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28888-12-0; 68515-48-0)	mg/kg		50	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	mg/kg		50	n.d.

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元樺橡膠有限公司

測試報告

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鴻星企業有限公司

HSIEH SHENG ENTERPRISE CO., LTD.

彰化縣福興鄉社村社樹街17之2號

NO. 17-2, FAN SHE STREET, FUHSING HSIANG, CHANG HUA HSIEN, TAIWAN

SGS Taiwan Ltd.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法檢測 極限值 (ML)	結果 (Result) No.1
多環芳香烴 / Polynuclear Aromatic Hydrocarbons (PAHs)				
萘 / Acenaphthene (CAS No.: 83-32-9)	mg/kg	參考AFPS GS 2014:01 PAK方法, 以炭相層析/質譜儀檢測。 / With reference to AFPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	0.428
蒽 / Acenaphthylene (CAS No.: 208-96-8)	mg/kg		0.2	0.768
蒽 / Anthracene (CAS No.: 120-12-7)	mg/kg		0.2	n.d.
苯[a]蒽 / Benzo[a]anthracene (CAS No.: 56-55-8)	mg/kg		0.2	n.d.
苯[a]芘 / Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg		0.2	n.d.
苯[b]芘 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg		0.2	n.d.
苯[k]芘 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg		0.2	1.66
Chrysene (CAS No.: 218-01-9)	mg/kg		0.2	n.d.
二苯[a,h]蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg		0.2	n.d.
苯[a]芘 / Fluoranthene (CAS No.: 206-44-0)	mg/kg		0.2	7.63
芘 / Fluorene (CAS No.: 86-78-7)	mg/kg		0.2	n.d.
茚[1,2,3-c,d]芘 / Indeno[1,2,3-c,d]pyrene (CAS No.: 193-39-5)	mg/kg		0.2	0.552
菲 / Naphthalene (CAS No.: 91-20-3)	mg/kg		0.2	66.4
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg		0.2	1.61
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg		0.2	22.9
苯[j]芘 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n.d.
苯[e]芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	0.556
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg		-	102.484

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錫昌企業有限公司

HSIEN SHENG ENTERPRISE CO., LTD.

彰化縣福興鄉番社村番社街17之3號

NO. 17-3, FAN SHE STREET, FUHSING HSIANG, CHANG HUA HSIEN, TAIWAN

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No. 1
多溴聯苯總和 / Sum of PBBs	ng/kg	參考IEC 62321: 2008方法, 以氣相層析/ 質譜儀檢測, / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
一溴聯苯 / Monobromobiphenyl	ng/kg		5	n.d.
二溴聯苯 / Dibromobiphenyl	ng/kg		5	n.d.
三溴聯苯 / Tribromobiphenyl	ng/kg		5	n.d.
四溴聯苯 / Tetrabromobiphenyl	ng/kg		5	n.d.
五溴聯苯 / Pentabromobiphenyl	ng/kg		5	n.d.
六溴聯苯 / Hexabromobiphenyl	ng/kg		5	n.d.
七溴聯苯 / Heptabromobiphenyl	ng/kg		5	n.d.
八溴聯苯 / Octabromobiphenyl	ng/kg		5	n.d.
九溴聯苯 / Nonabromobiphenyl	ng/kg		5	n.d.
十溴聯苯 / Decabromobiphenyl	ng/kg		5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	ng/kg		-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	ng/kg		5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	ng/kg		5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	ng/kg		5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	ng/kg		5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	ng/kg		5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	ng/kg		5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	ng/kg		5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	ng/kg		5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	ng/kg		5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	ng/kg		5	n.d.

備註(Notes):

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "n" = Not Regulated (無規格值)

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SGS Taiwan Ltd.

△ 德國產品安全委員會(AfPS) GS PAHs 要求 /

AfPS (German commission for Product Safety): GS PAHs requirements

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)		第3類 (Category 3)	
	意圖放入嘴內的材料或玩具與皮膚有所接觸(超過30秒). (Material intended to be put in the mouth or toys with intended skin contact (longer than 30 s).)	不屬於第1類的材料並可預見與皮膚接觸超過30秒(長期或經常與皮膚接觸). (Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin or frequent contact).)		可預見與皮膚接觸短於30秒(短期與皮膚接觸), 以及不屬於第1類或第2類的材料. (Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).)	
		列於2009/48/EC之玩具 (Toy under 2009/48/EC)	列於德國產品安全法之其他產品 (Other products under ProdSG)	列於2009/48/EC之玩具 (Toy under 2009/48/EC)	列於德國產品安全法之其他產品 (Other products under ProdSG)
Naphthalene	< 1	< 2		< 10	
Acenaphthylene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Acenaphthene					
Fluorene					
Phenanthrene					
Anthracene					
Fluoranthene					
Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
18項PAH總濃度 (Sum of 18 PAH)	< 1	< 5	< 10	< 20	< 50

單位(Unit): mg/kg

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廣樺橡膠有限公司

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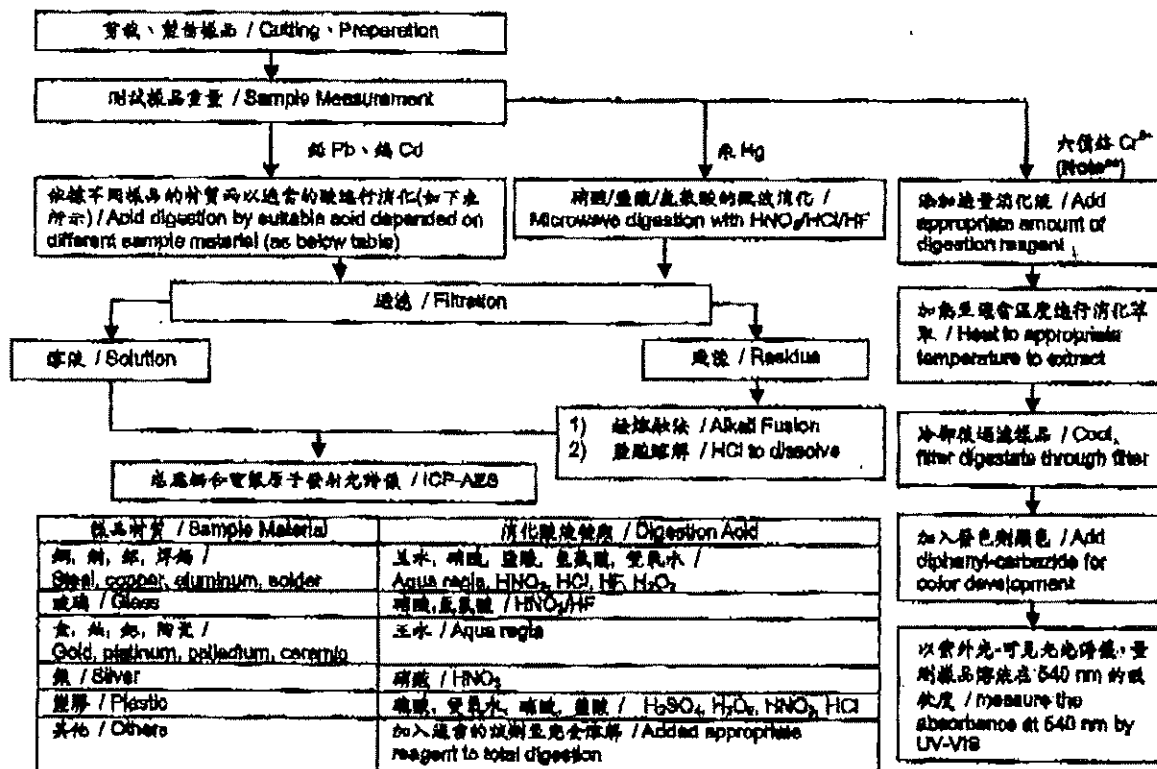
鴻星企業有限公司

HSIEN SHENG ENTERPRISE CO., LTD.

彰化縣福興鄉魯社村魯社街17之3號

NO. 17-3, FAN SHE STREET, FUHSING HSIANG, CHANG HUA HSIEN, TAIWAN

- 1) 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. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登傑 / Name of the person who made measurement: Chimbgrat Yang
- 3) 測試負責人：張學典 / Name of the person in charge of measurement: Troy Chang



Note⁰⁰: (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液，加熱至 90-95℃ 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90-95℃.
- (2) 針對金屬材料加入純水，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

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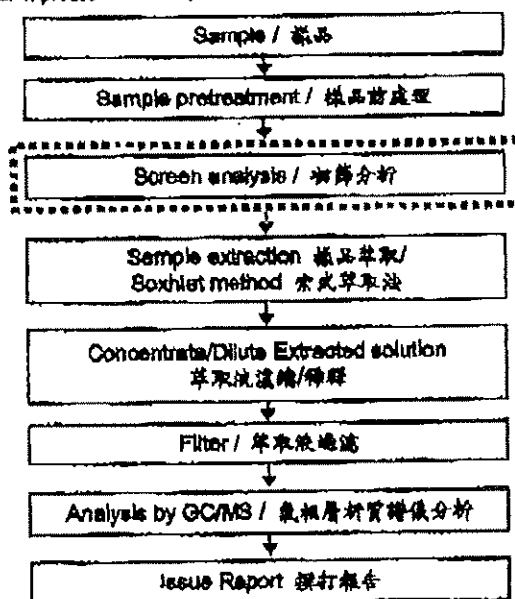
HSIEH SHENG ENTERPRISE CO., LTD.

彰化縣福興鄉魯社村魯社街17之3號

NO. 17-3, PAN SHE STREET, FUSING HSIANG, CHANG HUA HSIEN, TAIWAN

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

- 測試人員: 黃賜彬 / Name of the person who made measurement: Roman Wong
 ■ 測試負責人: 張修典 / Name of the person in charge of measurement: Troy Chang
 初次測試程序 / First testing process —————→
 選擇性篩檢程序 / Optional screen process —————→
 確認程序 / Confirmation process — — — — —→



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測試報告 Test Report

號碼(No.): CB/2015/44973

日期(Date): 2015/05/04

頁數(Page): 8 of 10

協益企業有限公司

HSIHH SHENG ENTERPRISE CO., LTD.

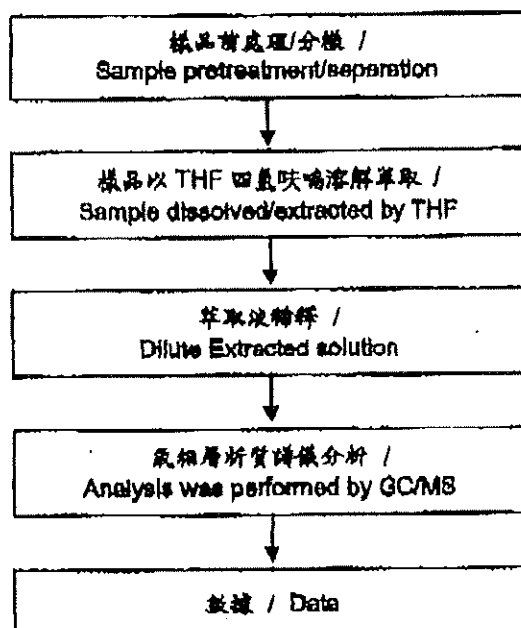
彰化縣福興鄉番社村番社街17之3號

NO. 17-3, FAN SHE STREET, FUBSING HSIANG, CHANG HUA HSIEN, TAIWAN

可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員: 徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人: 張晉興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: IEC 62321-8】



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測試報告

Test Report

號碼(No.): CE/2015/44978

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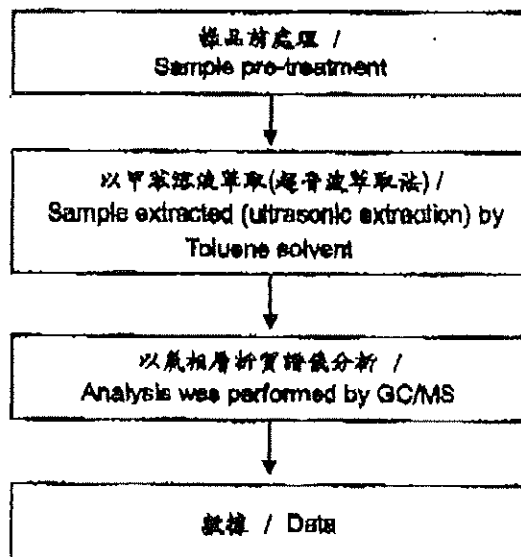
HSIEH SHENG ENTERPRISE CO., LTD.

彰化縣福興鄉魯社村魯社街17之3號

NO. 17-3, FAN SHE STREET, FUHSING HSIANG, CHANG HUA HSIEN, TAIWAN

多環芳烴分析流程圖 / PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 測試人員: 翁騰彬 / Name of the person who made measurement: Roman Wong
- 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang



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日期(Date): 2015/05/04

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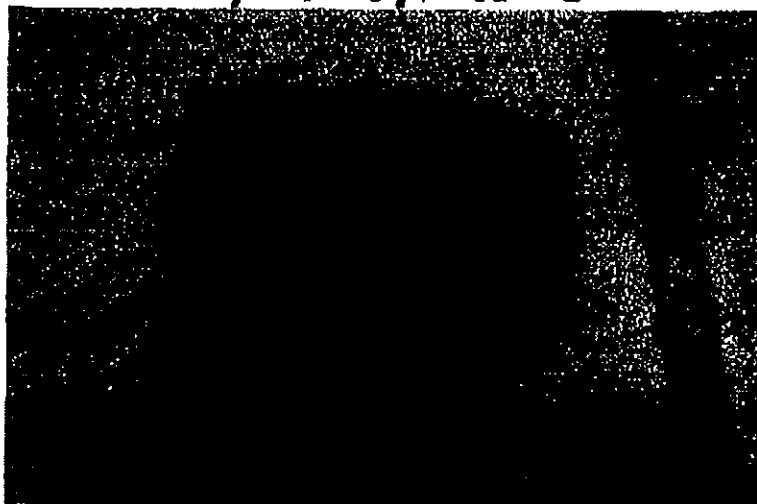
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NO. 17-3, FAN SHE STREET, FUHSING HSIANG, CHANG HUA HSIEN, TAIWAN

[REDACTED]

* 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.)

CE/2015/44973

** 報告結尾 (End of Report) **

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