



# 測試報告(SVHC)

## Test Report

號碼(No.): KA/2009/10344 日期(Date): 2009/01/14 頁數 : 1 of 14

YOUNG TOWN ENTERPRISES CO., LTD.  
YOUNG TOWN DEVELOPMENT LTD.  
DONGGUAN YOUNG TOWN ELECTRONICS CO., LTD.  
26, LANE 242, SEC.3, CHUNG CHENG RD., JEN TE HSIANG, TAINAN, TAIWAN  
128, KUEI LIN RD., TAIPEI 108, TAIWAN  
THE SECOND INDUSTRIAL AREA, HEDONG JINXIA CHANGGAN TOWN, DONGGUAN DONG,  
CHINA



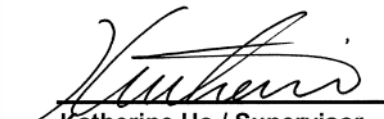
以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : QUARTZ CLOCK MOVEMENT

樣品型號(Style/Item No.) : 12888S, 12888SB, 12888SB2, 12888SC, 12888SC1, 12888SC3, 12888SC5, 12888SA, 12888SA0, 12888SA1, 12888SA2, 12888SA5, 12888RS, 12888RSA, 12888RSA0, 12888SW, 12888SAW, 12888SA0W, 12888SA1W, 12888SA2W, 12888SC1W, 12888SH, 12888SHA, 12888SHB2, 12888SHC1, 12888SK, 12888SBK, 12888SB2K, 12888SCK, 12888SC1K, 12888SC5K, 12888ST, 12888STB, 12888STB1, 12888STB2, 12888STC, 12888STC1, 12888STC3, 12888STC5, 12888STA, 12888STA0, 12888STA1, 12888STA2, 12888STA5, 12888W, 12888WA, 12888WT, 12888WTA, 12888SM, 12888SM0, 12888SMC1, 12888SMC5, 12888SMC, 12888SMP-SD, 12888SMP-SW, 12888SMP-SM, 12888SMP-C, 12888STM, 12888STM0, 12888STMC1, 12888STMC5, 12888STM, 12888V3, 12888V1, 12888SE, 12888SAE, 12888SCE, 12888SD, 12888SDA, 12888SDMC, 12888SL, 12888SLA, 12888M, 12888R, 12888R1, 12888R2, 12888SWDA, 12888SWDB, 12888SWDC, 12888SWK, 12888MHH, 12888MWD, 12888MHD, 12888D2, 12888D2E, 12888D2ER, 12888D2R, 12888D2A, 12888D2A0, 12888D2A1, 12888D2B, 12888D2BR, 12888D2BE, 12888D2B1, 12888D2B2, 12888D2B2E, 12888D2B2R, 12888D2C, 12888D2CE, 12888D2CR, 12888D2C1, 12888D2C1E, 12888D2C3, 12888D2C5, 12888D2C5E, 12888D3, 12888D3E, 12888D3B, 12888D3B2, 12888D3C1, 12888D3C1, 12888D3C5, 12888D3C, 12888D3R, 12888DMA, 12888DMB, 12888DMB2, 12888DMC, 12888DMC1, 12888DMC3, 12888DM3A, 12888DM3, 12888DM3B, 12888DM3B2, 12888DM3C, 12888DM3C1, 12888DM3C3, 12888DM3C5, 12888DM3AE, 12888DH, 12888DH1, 12888DH2, 12888DF, 12888DF1, 12888DF2, ISK, ISL, ISX

收件日期(Sample Receiving Date) : 2009/01/09  
測試期間(Testing Period) : 2009/01/09 TO 2009/1/14

=====  
 測試需求(Test Requested) :  
 測試方法(Test Method) : 請見下一頁 (Please refer to next pages).  
 測試結果(Test Results) :  
 總結(Summary) :

  
 Katherine Ho / Supervisor  
 Signed for and on behalf of  
 SGS Taiwan Limited

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- 測試需求(Test Requested)** : 15項高關注物質(SVHC)篩檢  
高關注物質(SVHC)清單是根據歐洲化學總署(ECHA)於2008年10月28日,就關於REACH之 Regulation (EC) No 1907/2006的公告。/ Fifteen (15) Substances of Very High Concern (SVHC) screening.  
SVHC list based on the publication by European Chemicals Agency (ECHA) on 2008 October 28, 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,15項高關注物質(SVHC)的濃度均小於0.1% (According to the specified scope and analytical technique, concentrations of all 15 SVHC are <0.1% in the submitted sample(s)).

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### 測試樣品(Test Sample):

測試部位(PART NAME) NO.1 : QUARTZ CLOCK MOVEMENT

描述	重量(Weight) %
	No.1
金屬 (Metal)	49.68%
塑膠(Plastic) / 橡膠(Rubber)	32.47%
電路板(PCB) / 複合材質(Composite Material)	17.85%
非金屬類(Non-Metal)及非塑膠類(Non-Plastic)	0.00%
其他(Other)	0.00%

### 備註:

1. 收到之樣品是以混測方式進行測試 (>0.1% w/w 的樣品成份將列於此報告中) (The sample as received is tested as composite mixture (>0.1% w/w of the sample composition listed in this report)。
2. 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)。

### 測試方法:

內部方法參照US EPA 3051A, US EPA 3052, US EPA 8270D, ISO 17353:2004-9, EN 14362-1: 2003以及由感應耦合電漿質譜儀 & 感應耦合電漿原子發射光譜儀&氣相層析儀質譜儀和氣相層析儀/火焰光度偵器進行分析 (In house method with reference to US EPA 3051A, US EPA 3052, US EPA 8270D, ISO 17353: 2004-9, EN 14362-1: 2003 and analyzed by ICP/MS & ICP/AES & GC/MS

### 備註:

1. 15項SVHC化學分析, 依歐洲化學總署(ECHA)於2008年10月28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 15 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2008 October 28. This list is under evaluation by ECHA and may subject to change in the future.)  
請參照(refer to) [http://echa.europa.eu/consultations/authorisation/svhc/svhc\\_cons\\_en.asp](http://echa.europa.eu/consultations/authorisation/svhc/svhc_cons_en.asp)

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2. 根據Regulation (EC) No 1907/2006 5(刪除) 中第7條款第4項之規定, 如果物質合乎第57條款之標準以及可依據第59(1)條之規定鑑別, 且同時符合下列兩項狀況, 任何成品之製造人和進口人應向歐洲化學總署(ECHA)通報:

- (a) 成品中所含物質每年超過1公噸。
- (b) 依重量百分比計算, 物質濃度超過0.1%。

In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 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, 建議客戶確認含有該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.

### 測試結果 (Test Results)

物質名稱 (Substance Name)	單位 (Unit)	濃度 (Concentration)	報告 極限值 (RL)	分類 (Classification)
		NO.1		
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)
鄰苯二甲酸二丁酯 / Dibutyl phthalate (DBP) (CAS No.: 000084-74-2)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
鄰苯二甲酸丁酯苯甲酯 / Benzyl butyl phthalate (BBP) (CAS No.: 000085-68-7)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)

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# 測試報告(SVHC)

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物質名稱 (Substance Name)	單位 (Unit)	濃度 (Concentration)		報告 極限值 (RL)	分類 (Classification)
		NO.1			
鄰苯二甲酸二 (2-乙基己基) 酯 / Bis (2-ethylhexyl) phthalate (DEHP) (CAS No.: 000117-81-7)	%	n.d.		0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 000081-15-2)	%	n.d.		0.005	vPvB
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No.: 025637-99-4 and 003194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	%	n.d.		0.005	PBT
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	%	n.d.		0.01	PBT
三丁基錫氧化物 / Bis(tributyltin)oxide*** (CAS No.: 000056-35-9)	%	n.d.		0.005	PBT
氯化鈷 / Cobalt dichloride*** (CAS No.: 007646-79-9)	%	n.d.		0.05	致癌物質 類別 2 (Carcinogen Category 2)
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 001303-28-2)	%	n.d.		0.05	致癌物質 類別 1 (Carcinogen Category 1)
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 001327-53-3)	%	n.d.		0.05	致癌物質 類別 1 (Carcinogen Category 1)
三乙基砷酸鹽 / Triethyl arsenate*** (CAS No.: 015606-95-8)	%	n.d.		0.05	致癌物質 類別 1 (Carcinogen Category 1)
砷酸氫鉛 / Lead hydrogen arsenate*** (CAS No.: 007784-40-9)	%	n.d.		0.05	致癌物質 類別 1; 對生殖系統有害 類別1 (Carcinogen Category 1; Toxic to Reproduction Category 1)
重鉻酸鈉 / Sodium dichromate*** (CAS No.: 010588-01-9(*))	%	n.d.		0.05	致癌物質 類別2; 導致基因突變 類別2; (Carcinogen Category 2; Mutagen Category 2; Toxic to Reproduction Category 2)
環十二烷 / Cyclododecane (CAS No.: 000294-62-2)	%	n.d.		0.005	PBT

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#### 備註(Note):

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = not detected = below Reporting Limit / 未檢出
3. RL = Reporting Limit / 報告極限值
4. \*\*\*: 該物質是由"三丁基錫"或各別元素(例如: 砷、鉛、鈷或六價鉻)之測試結果計算得知。  
(The substance is calculated by the test results of Tributyl Tin or element  
(Ex. Arsenic, Lead, Cobalt or Cr (VI) respectively).)
5. (\*): 重鉻酸鈉二水合物(CAS No.: 007789-12-0)含量 = 重鉻酸鈉含量 X 1.1374  
(conc. of Sodium dichromate dihydrate = conc. of sodium dichromate X 1.1374)
6. 氯化鈷的結果是由鈷及氯的結果計算得知。  
(The result of Cobalt dichloride is calculated from the result of cobalt and chlorine.)

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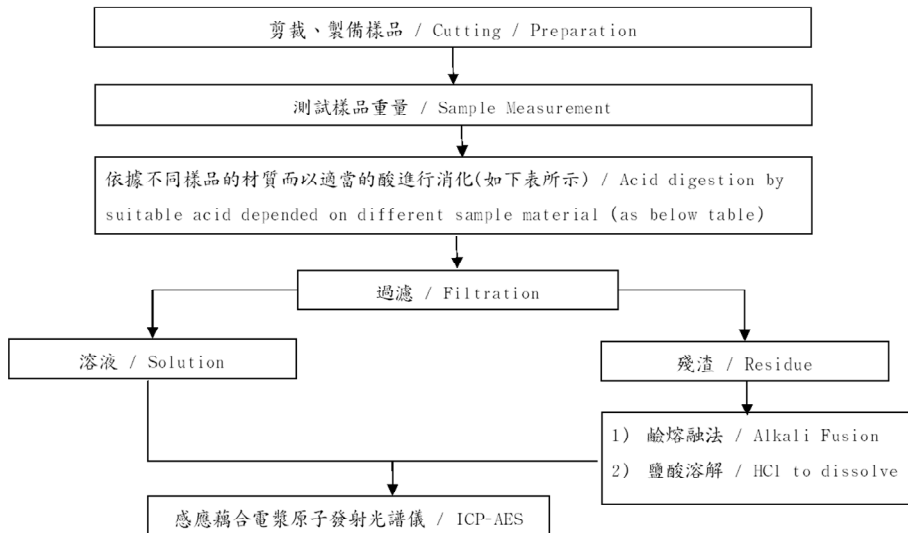
號碼(No.): KA/2009/10344      日期(Date): 2009/01/14      頁數: 7 of 14

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- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：李宏明 / Name of the person who made measurement: Hungming Li
- 3) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

#### 元素的消化流程圖 (Flow Chart of Digestion for elements analysis)



鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
玻璃 / Glass	硝酸, 氫氟酸 / HNO <sub>3</sub> /HF
金, 鉑, 鈱, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO <sub>3</sub>
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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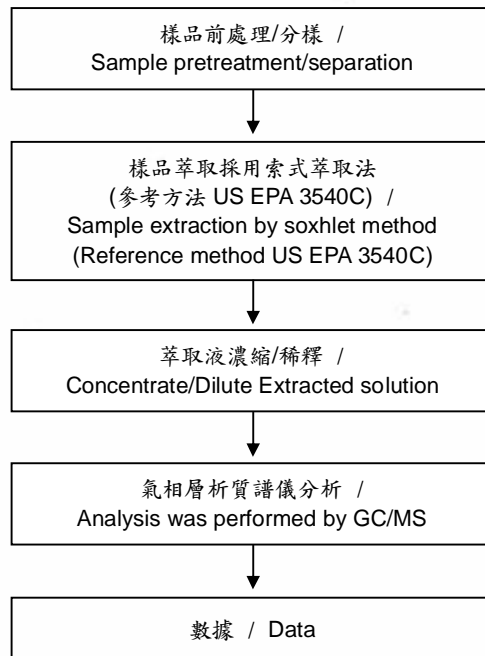
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CHINA

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

1) 測試人員: 曹嘉琪 / Name of the person who made measurement: 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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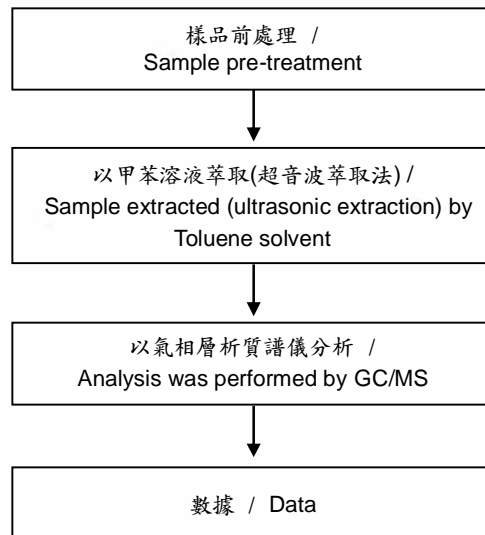
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### 多苯環芳香族化合物分析流程圖 /

### PAHs (Poly Aromatic Hydrocarbons) analytical flow chart

1) 測試人員: 曹嘉琪 / Name of the person who made measurement: 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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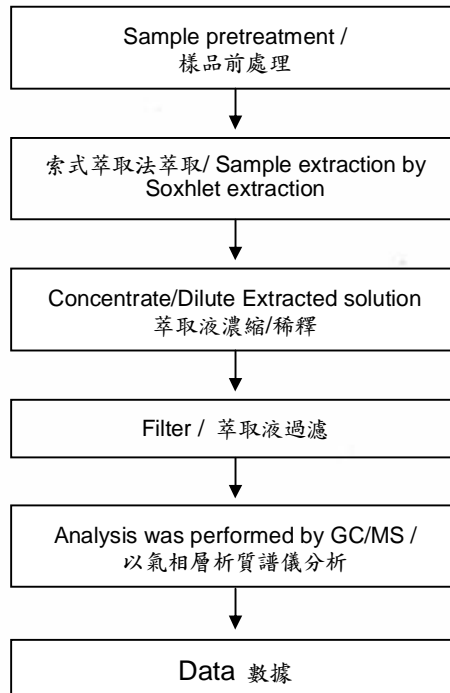
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### 六溴環十二烷分析流程圖 / HBCDD Analytical FLOW CHART

- 1) 測試人員: 曹嘉琪 / Name of the person who made measurement: 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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## 測試報告(SVHC)

### Test Report

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日期(Date): 2009/01/14

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# 測試報告 (SVHC)

## Test Report

號碼(No.): KA/2009/10344      日期(Date): 2009/01/14      頁數 : 12 of 14

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### 附錄 (Appendix) A

分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
致癌物質 類別1 (Carcinogen Category 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 (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 類別2 (Carcinogen Category 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): <ul style="list-style-type: none"> <li>- 適當的長期動物實驗 (appropriate long-term animal studies)。</li> <li>- 其他相關資訊 (other relevant information)。</li> </ul>
導致基因突變 類別1 (Mutagen Category 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有相互的關聯性 (Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage)。
導致基因突變 類別2 (Mutagen Category 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): <ul style="list-style-type: none"> <li>- 適當的長期動物實驗 (appropriate animal studies)。</li> <li>- 其他相關資訊 (other relevant information)。</li> </ul>
對生殖系統有害 類別1 (Toxic to Reproduction Category 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關聯性 (Substances known to impair fertility in humans. There is sufficient 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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# 測試報告 (SVHC)

## Test Report

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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 (Toxic to Reproduction Category 2) :	<p>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) :</p> <ul style="list-style-type: none"> <li>- 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)</li> <li>- 其他相關資訊 (other relevant information)</li> </ul> <p>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) :</p> <ul style="list-style-type: none"> <li>- 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)。</li> <li>- 其他相關資訊 (other relevant information)</li> </ul>
PBT & vPvB:	<p>長期生物蓄積性及毒性毒質 (PBT) 或高持久性和高生物蓄積性 (vPvB) 的物質造成化學安全管理上特別挑戰。這些物質在環境中無法用一個 "安全" 濃度建立足夠的可靠度。/ Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.</p>

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# 測試報告(SVHC)

## Test Report

號碼(No.): KA/2009/10344 日期(Date): 2009/01/14 頁數 : 14 of 14

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CHINA



### 附錄(Appendix) B

SVHC 調查表(SURVEY FORM)			
公司名稱(Company Name)	YOUNG TOWN ENTERPRISES CO., LTD.		
樣品名稱(Product Name)	QUARTZ CLOCK MOVEMENT		
產品重量(Product weight)	68.12 g		
報告號碼(Report No.)	KA/2009/10344		
物質鑑定(Substance identification)			
物質名稱 (Substance name)	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)
4,4' - 二氯基二苯甲烷 / 4,4' -	n.d.	N/A	No
鄰苯二甲酸二丁酯 / Dibutyl phthalate (DBP)	n.d.	N/A	No
鄰苯二甲酸丁酯苯甲酯 / Benzyl butyl phthalate	n.d.	N/A	No
鄰苯二甲酸二 (2-乙基己基)酯 / Bis (2-ethylhexyl)	n.d.	N/A	No
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-	n.d.	N/A	No
六溴環十二烷及所有主要被辨別出的異構物 /	n.d.	N/A	No
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short	n.d.	N/A	No
三丁基錫氧化物 / Bis(tributyltin)oxide	n.d.	N/A	No
氯化鈷 / Cobalt dichloride	n.d.	N/A	No
五氧化二砷 / Diarsenic pentaoxide	n.d.	N/A	No
三氧化二砷 / Diarsenic trioxide	n.d.	N/A	No
三乙基砷酸鹽 / Triethyl arsenate	n.d.	N/A	No
砷酸氫鉛 / Lead hydrogen arsenate	n.d.	N/A	No
重鉻酸鈉 / Sodium dichromate	n.d.	N/A	No

備註(Note): N/A = 不適用 (Non-Available)

\*\* 報告結尾(End of Report) \*\*

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