

承認書

Specification for Approval

Synnix Part No. : CL-2010MU

Customer's Part NO. : 6042B0864601

Description: RFID / NFC Reader

CUSTOMER : 英業達股份有限公司 **Inventec Corporation**

SUPPLIER : 新錙科技股份有限公司 **Synnix Technology Co.**

DATE : 2023/01/01

CONTACT : _____

We declare that the attached specification stated is a true statement and that, to the best of my/our knowledge, the specification has been tested and examined in accordance with the applicable specifications by an approved testing entity and does comply with the requirements of those specifications.

Approved by : _____

Title : _____

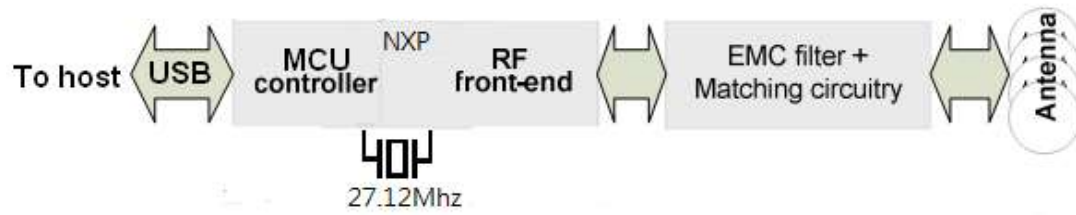
Signature : _____

Date : _____

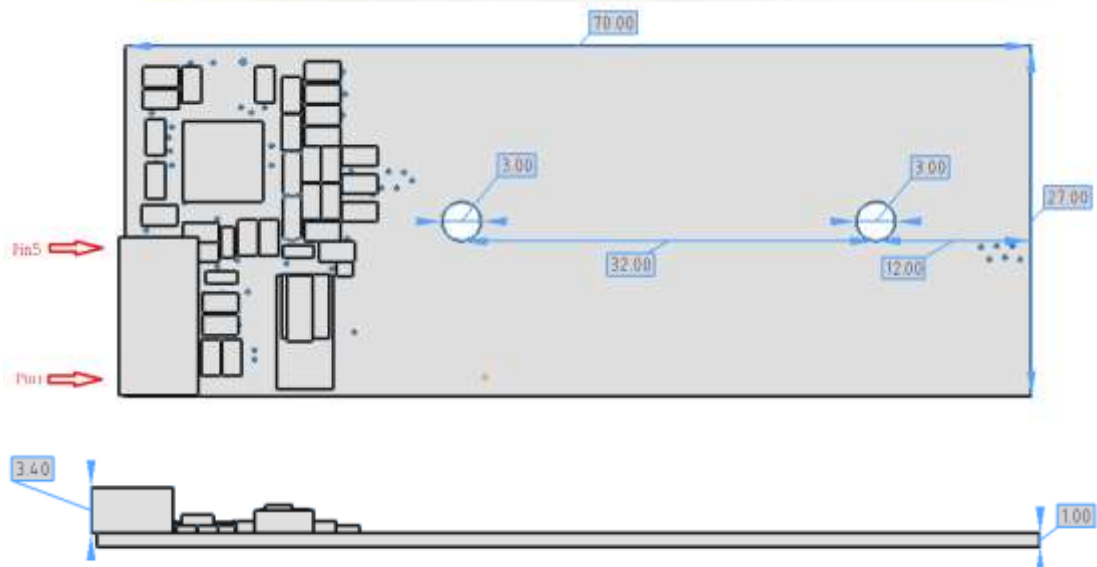
Specification

	Model No. : CL-2010MU
RF Features	<ul style="list-style-type: none"> ● Supports ISO/IEC14443 Type A & B from 106 kbps to 847 kbps ● Supports FeliCa protocol at 212 kbit/s and 424 kbit/s ● Built-in antenna for contactless tag access ● Built-in anti-collision features
Operating distance	<ul style="list-style-type: none"> ● up to 60 mm (depending on quality and antenna size of card)
Supported Cards and Tags	<ul style="list-style-type: none"> ● NFC Forum Tag Type 1,2,3,4, PicoPass / MIFARE classic / Ntag <ul style="list-style-type: none"> ■ Jewel cards (106 kbps, Type1) ■ MIFARE UltraLight (106 kbps, Type2) ■ FeliCa (212 kbps & 424 kbps Type3) ■ ISO14443-A&B T=CL contactless smart cards (Type4) ■ PicoPass tag (106 kbps) ■ MIFARE Classic 1K /4K (106 kbps) ■ Ntag family
Protocol	<ul style="list-style-type: none"> ● Compliant with EMV contactless specification V2.0.1 and BSI requirements
Interface to host (USB)	<ul style="list-style-type: none"> ● USB 2.0 Full speed transfer types ● PC/SC compliant ● CCID compliant
O.S Support	<ul style="list-style-type: none"> ● Windows 7 ~ Windows 11 ● Linux ● Android ● Mac OS
Dimension	<ul style="list-style-type: none"> ● 70 x 27 x 4.4 mm
Weight	<ul style="list-style-type: none"> ● ~ 4.5 g
Environmental Performances	<ul style="list-style-type: none"> ● Operating temperature: +0°C to +50 °C

1. System diagram



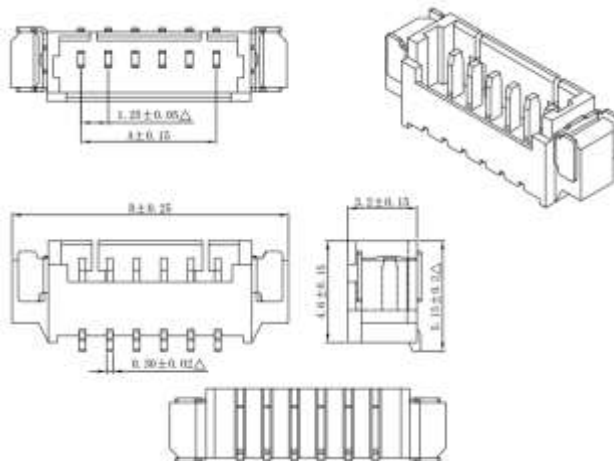
2. Dimension drawing



3.Pin definition:

	Description
Pin 1	GND
Pin 2	GND
Pin 3	D-
Pin 4	D+
Pin 5	USB VCC

4.Connector specification:



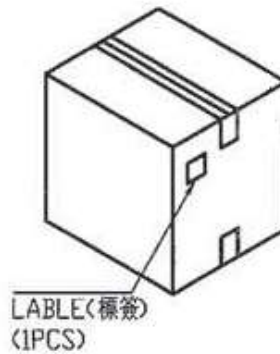
SPECIFICATIONS	
Current rating	:1A AC,DC
Voltage rating	:125V AC,DC
Temperature range	: -25° C~+85° C
Contact resistance	:20m ΩMax
Insulation resistance	:100M ΩMin
Withstanding voltage	:250 VAC/minute
Pin Material	:Copper Alloy
Finished	:Matt Tin
Housing Material	:Nylon-6T, UL94 V-0
Color	:Beige

Circuits	Dimensions	
	A	B
02	1.25	7.75
03	2.50	9.00
04	3.75	10.25
05	5.00	11.50
06	6.25	12.75
07	7.50	14.00
08	8.75	15.25
09	10.00	16.50
10	11.25	17.75

5. Photo & Package :



Pack in High Barrier ESD Static Shielding Bag



	L	W	H
Carton Dimension	17.3 mm	9.2 mm	11.2 mm
Maximum quantity acceptable	100 pcs / per carton (50 bags / per carton)		

Label Description:

Model: CL-2010MU
 PO: your purchase order number
 Item: item number in your purchase order
 PN: your parts number
 Q'ty: Shipment Quantity
 D/C: Manufacture Date , year/week

Bar code format : Code 39

Example :

Model	CL-2010MU
PO	3314-1090116008
Item	2
PN	62741
QTY	100
D/C	1945

Rohs/REACH Declaration and test report:

SMD RC :

G-1111-202302-029

PASSIVE SYSTEM ALLIANCE
WALSIN TECHNOLOGY CORPORATION

RoHS & Halogen free & REACH Compliance Declaration Letter (Part Maker) RoHS & 無鹵素 & REACH 合規聲明書 (零件製造者)

• RoHS & China RoHS Compliance Declaration

We hereby certify that our products MLCC, Chip-R, RF Device, Disc capacitors, Radial Leaded MLCC, Varistors and Inductors are compliant with European RoHS 2.0 Directive 2011/65/EU & the European Delegated Directive (EU)2015/863 all requirement and exemption conditions. (Please refer to the Note 1, 2.)

Our products MLCC, Chip-R are also compliant with China RoHS 2. (Please refer to Annex 1 for certificate.)

Note 1 : Thick film Chip-R WR/WF/WA/WT/WW/MR/MA/MF/SR/SF/SA/WK/MK series (except PN 12th "R" code, Jumper, Metal, Thin Film and the following series : WWxxC/WWxxP /WWxxW/WWxxT) contains Lead under the permission of RoHS exemption 7(C)-I : Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound.

Note 2 : DiSC LR series contains Lead under the permission of RoHS exemption 7(C)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher.

• RoHS & 中國 RoHS 合規聲明

我們特此證明我們的產品電容、電阻、RF 元件、圓板電容、獨石電容、壓敏電阻和電感器符合歐洲 RoHS 2.0 指令 2011/65/EU & 歐盟授權指令 (EU)2015/863 的所有要求和豁免條件 (請見備註 1, 2)。

我們的產品電容、電阻也符合中國 RoHS 2。(證書請參閱附件 1)

備註 1 : 厚膜電阻 WR/WF/WA/WT/WW/MR/MA/MF/SR/SF/SA/WK/MK 系列 (除料號第 12 碼為 R 者、Jumper、Metal、Thin Film 及下列系列 : WWxxC/WWxxP /WWxxW/WWxxT) 含有鉛並使用 RoHS 豁免 7(C)-I : 電氣和電子元件、含有玻璃中的鉛或介電陶瓷以外的陶瓷在電容器中、例如 壓電裝置、或玻璃或陶瓷基質化合物。

備註 2 : 圓板電容 LR 系列含有鉛並使用 RoHS 豁免 7(C)-II : 電容器中的介電陶瓷中的鉛、額定電壓為 125 V AC 或 250 V DC 或更高。

Substance	中文名	Threshold 限值
Lead (Pb)	鉛	0.1%(1000ppm)
Mercury (Hg)	汞	0.1%(1000ppm)
Cadmium (Cd)	鎘	0.01%(100ppm)
Hexavalent chromium (Cr VI)	六價鉻	0.1%(1000ppm)
Polybrominated biphenyls (PBB)	多溴聯苯	0.1%(1000ppm)
Polybrominated diphenyl ethers (PBDE)	多溴聯苯醚	0.1%(1000ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	鄰苯二甲酸二(2-乙基己基)酯	0.1%(1000ppm)
Butyl benzyl phthalate (BBP)	鄰苯二甲酸甲苯基丁酯	0.1%(1000ppm)
Dibutyl phthalate (DBP)	鄰苯二甲酸二丁基酯	0.1%(1000ppm)
Diisobutyl phthalate (DIBP)	鄰苯二甲酸二異丁基酯	0.1%(1000ppm)

- **Halogen free Compliance Declaration (Br<900ppm, Cl<900ppm, Br+Cl<1500ppm)**

We hereby declare that MLCC, Chip-R, RF Device, Disc capacitors, Radial Leaded MLCC, Varistors (see Note 3 for except series) and Inductor parts delivered by us are compliant with Halogen free requirements.

Note 3 : Varistors TVZ series contains Br > 900 ppm.

- **無鹵素合規聲明 (溴<900ppm · 氯<900ppm · 溴+氯<1500ppm)**

我們特此聲明，我們交付的電容、電阻、RF 元件、圓板電容、獨石電容、壓敏電阻（備註 3 除外）以及電感器部件均符合無鹵素要求。

備註 3：壓敏電阻 TVZ 系列含有 Br > 900 ppm。

- **REACH Compliance Declaration (SVHC 28th - 233)**

We hereby also declare that MLCC, Chip-R, RF Device, Disc capacitors, Radial Leaded MLCC, Varistors and Inductor parts manufactured by WALSIN are fully compliant with the related requirements of European Union Regulation (EC)1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) :

1. Under the structure of the REACH regulation, WALSIN is a manufacturer of "ARTICLES" to our EU customers (according to ECHA's guidance for articles, the electronic components shall be considered as articles). We do not manufacture "substances" or "preparations" and our articles do not involve the "intentional release of substances". Accordingly, we foresee no registration or pre-registration or Authorization requirement for the products we supplied.

2. With regard to the requirements of Article 33 of REACH : Duty to communicate Substances of Very High Concern (SVHC) information in articles. We declare that, except for Note 4, WALSIN's products and their corresponding packaging do not contain SVHC equal or above 0.1%. (please see notes 5 to 7 for additional instructions.) (For the SVHC candidate list released by ECHA on Jan 17, 2023, please refer to Annex 2.)

3. With regard to the requirements of Article 67 of REACH : A substance on its own, in a preparation or in an article, for which Annex XVII, contains a restriction shall not be manufactured, placed on the market or used unless it complies with the conditions of that restriction. We declare that none of the substances in the Conditions of restriction is present in WALSIN's products (and also package).

As REACH regulation is updated frequently, for the major changes afterwards, such as the addition of SVHC substances into Annex XIV, the addition of restricted substances in Annex XVII, WALSIN will evaluate the further revise in time and update this declaration to reflect these

changes.

Annex XIV : <https://echa.europa.eu/candidate-list-table>

Annex XVII : <https://echa.europa.eu/substances-restricted-under-reach>
(<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32016R2235>)

Note 4 : DISC LR series contains SVHC Lead tetroxide - Pb_2O_4 (CAS No. 1314-41-6) in its ceramic portion with the concentration less than 3% under the RoHS exemption 7(C)-II.

Note 5 : Some of Thick film Chip-R contain Diboron trioxide - B_2O_3 (CAS No. 1303-86-2) in raw materials, after a high-temperature process B_2O_3 and multiple constituents merge will transfer to glass, which is out of SVHC scope. Please refer to the JEITA's explanation (24JEITA Document No. 207), see Annex 3.

Note 6 : Some of Thick film Chip-R contain Lead oxide - PbO (CAS No. 1317-36-8) in raw materials, after a high-temperature process PbO and multiple constituents merge will transfer to glass, which is out of SVHC scope. Please refer to the JEITA's explanation (24JEITA Document No. 247), see Annex 4.

Note 7 : Some test reports of our Thick film Chip-R product showing results with lead(CAS No. 7439-92-1) > 1000ppm, but there was not any metallic lead was added to all of raw materials and manufacturing processes, the result of lead concentration is from lead oxide in some raw materials, and lead oxide and multiple constituents merge will transfer to glass which is out of SVHC scope. Explained as Note6 & Annex 4.

• REACH 合規聲明 (SVHC 28th – 233)

我們特此聲明，WALSIN 製造的電容、電阻、RF 元件、圓板電容、獨石電容、壓敏電阻以及電感器部件完全符合歐盟法規 (EC)1907/2006 關於化學品註冊、評估、授權和限制使用 (REACH) :

1.根據 REACH 法規的結構，WALSIN 是“物品”製造商 (根據 ECHA 的物品指南，電子元件應視為物品)，我們不製造“物質”或“配製品”，我們的物品不涉及“故意釋放物質”。因此，我們預計我們提供的產品不須要進行註冊或預註冊或授權要求。

2.關於 REACH 第 33 條的要求：我們有傳達物品中含有高度關注物質 (SVHC) 信息的義務。我們聲明，除備註 4 外，WALSIN 的產品及其相應包裝材料 SVHC 含量皆小於 0.1% (補充說明請見備註 5 ~ 7)。(ECHA 於 2023 年 1 月 17 日發布的 SVHC 候選清單，請參閱附件 2)

3.關於 REACH 第 67 條的要求：附件 XVII 中含有限制的物質本身，配製品或物品中的物質不得製造、投放市場或使用，除非其符合這種限制的條件，我們聲明 WALSIN 產品 (以及包裝) 中沒有限制條件中的物質。

由於 REACH 法規經常更新，對於之後發生的重大變化，例如在附錄十四中添加 SVHC 物質，在附錄十七中添加限制物質，WALSIN 將及時評估進一步的修訂並更新本聲明以反映這些變化。

附錄十四： <https://echa.europa.eu/candidate-list-table>

附錄十七： <https://echa.europa.eu/substances-restricted-under-reach>
(<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32016R2235>)

備註 4 : DISC LR 系列陶瓷部分含有 SVHC 四氧化三鉛 Pb_3O_4 (CAS No. 1314-41-6) 根據 RoHS 豁免 7(C)-II，濃度低於 4%。

備註 5 : 部分厚膜電阻的材料中所含 B_2O_3 (CAS No.1303-86-2)，經高溫製程將與多種成分融合轉換為玻璃。

- 玻璃非屬 SVHC 範圍，說明請參閱 JEITA 24JEITA-電部企第 207 號解釋（附件 3）。
- 備註 6：部分厚膜電阻的材料中所含 PbO（CAS No.1317-36-8，經高溫製程將與多種成分融合轉換為玻璃，玻璃非屬 SVHC 範圍，說明請參閱 JEITA 24JEITA-電部企第 247 號解釋（附件 4）。
- 備註 7：我們的部分厚膜電阻測試報告含有鉛（CAS No.7439-92-1）> 1000ppm，但所有原材料和製造工藝中都沒有添加“鉛”，只有一些原料中含有氧化鉛，但它將與多種成分融合，轉移到 SVHC 範圍之外的玻璃。（說明請見備註 6 及附件 4）

We further declare that all the statements in this letter are true and accurate. We are also aware that we will be liable for any direct damage incurred by your company arising from our breach of any declarations in this letter. The amount of damage shall be determined by an irrevocable judgment of competent judicial or relevant authorities.

我們進一步聲明，本函中的所有陳述都是真實準確的，我們也知道，對於因違反本函件中的任何聲明而導致貴公司發生的任何直接損害，我們將承擔責任。損害賠償金額應由主管司法或有關當局的判決確定。



Name 姓名：Lee Ku 顧立荊
Designation 職稱：President 總經理
Date 日期：2023/02/20

Crystal: Y1



Test Report

No. CANEC2115901305

Date: 06 Sep 2021

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JENJAAN QUARTEK CORPORATION

3F-5, NO.504, YUANSHAN ROAD., ZHONGHE DIST., NEW TAIPEI CITY 23545, TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as : CRYSTAL UNITS

SGS Job No. : CP21-046198 - SZ
Client Ref. Info. : UESED FOR SMD/NXD/NXC/NXH/NXJ/NXK/NXL/NXN/NXR
Date of Sample Received : 25 Aug 2021
Testing Period : 25 Aug 2021 - 01 Sep 2021
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Sasa zhi

Sasa Zhi
Approved Signatory



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Test Report No. CANEC2115901305 Date: 06 Sep 2021 Page 2 of 12

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-159013.003	*CRYSTAL UNITS*(mixed)

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Elemental analysis, Hexavalent Chromium(Cr(VI)), Flame Retardants, Phthalates

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Unit	MDL	Q03
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	mg/kg	8	ND
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND
Dibromodiphenyl ether	mg/kg	5	ND
Tribromodiphenyl ether	mg/kg	5	ND
Tetrabromodiphenyl ether	mg/kg	5	ND
Pentabromodiphenyl ether	mg/kg	5	ND



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Test Item(s)	Unit	MDL	003
Hexabromodiphenyl ether	mg/kg	5	ND
Heptabromodiphenyl ether	mg/kg	5	ND
Octabromodiphenyl ether	mg/kg	5	ND
Nonabromodiphenyl ether	mg/kg	5	ND
Decabromodiphenyl ether	mg/kg	5	ND
Dibutyl phthalate (DBP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	mg/kg	50	ND

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit	MDL	003
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method (GZTC CHEM-TOP-073, with reference to EPA 3550C:2007), analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	003
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	mg/kg	10	ND

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	Unit	MDL	003
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND



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Test Item(s)	CAS NO.	Unit	MDL	003
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

Notes :

- (1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
 (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	003
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND
Dipentyl Phthalates (DPENP/DnPP)	131-18-0	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND

Notes :

- (1) DBP, BBP, DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
 i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles;
 ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than



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0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DiBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) 2018/2005 to get more detail information

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EU) 2015/326 to get more detail information

Remark: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.



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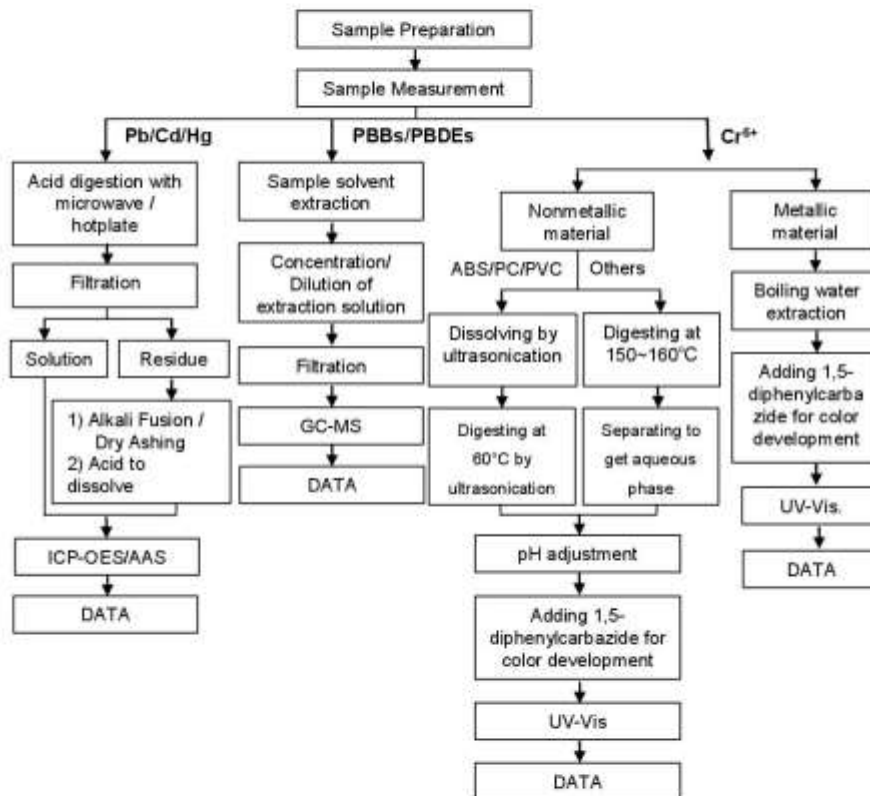
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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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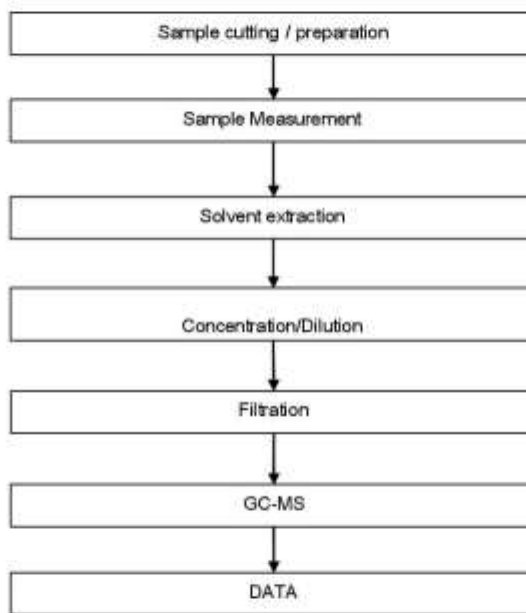
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Phthalates Testing Flow Chart



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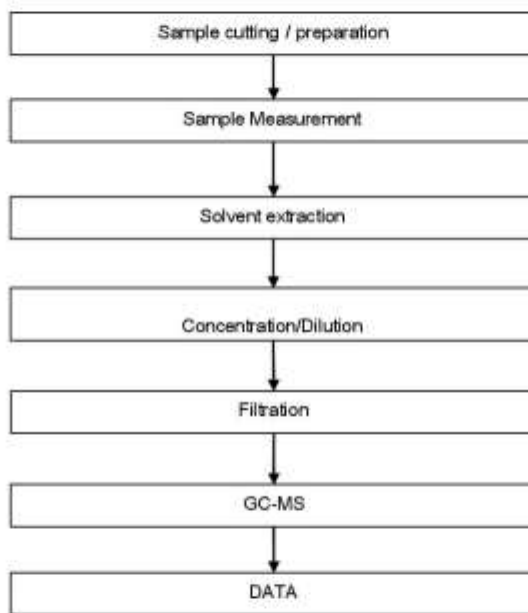
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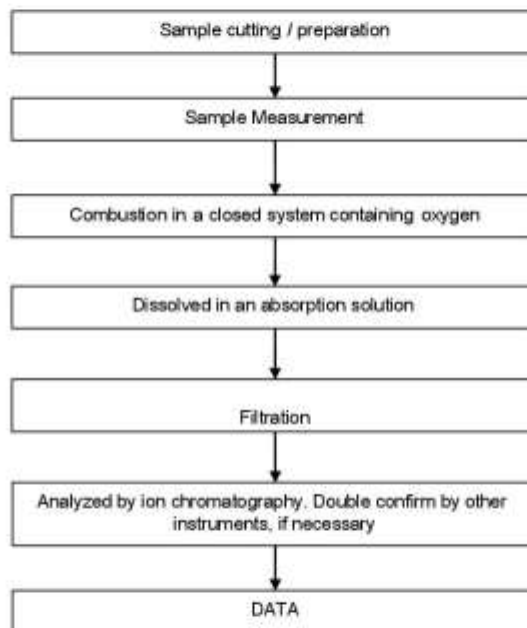
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Halogen Testing Flow Chart



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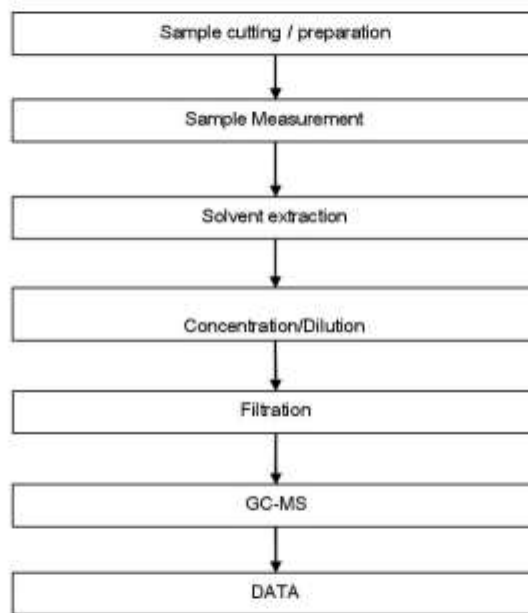
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HBCDD Testing Flow Chart



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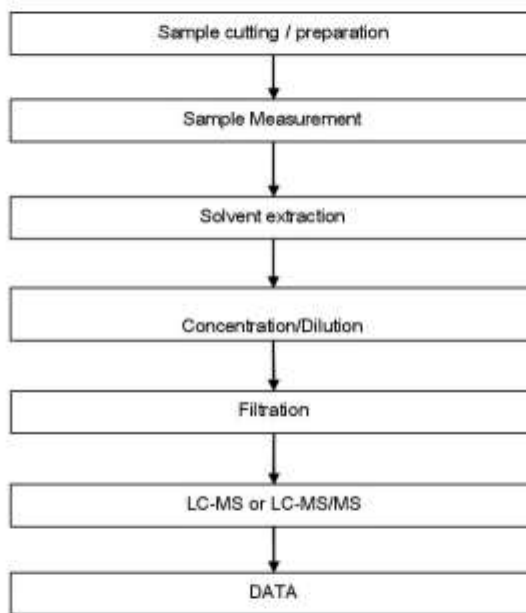
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PFOA / PFOS Testing Flow Chart



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Declaration of REACH(SVHC)
REACH(高關注物質)宣告書

Company name 公司名稱	JENJAAN QUARTEK CORPORATION
Section of charge 負責部門	品質管制處
Person in charge for evaluation 負責人員姓名	陳富鈺
Telephone number 電話號碼	886-2-8221-4498
E-MAIL 電子郵件	JENJAAN@JENJAAN.COM.TW
公司大小章 Company seal or the signature	
	

敝司產品皆符合歐盟REACH 209 項高度關注物質(SVHC)(附件A)

We follow the REACH restrictions and non-use 209 substances of Substances of Very High Concern (SVHC). (Annex A) .

Annex A, SVHC 209 substances :

NO	Substance Name 物質名稱	CAS No.	Does your factory use (Y/N) 是否使用	Content* 含量 (ppm)	Purpose of use 使用目的
1	Anthracene 蒽	120-12-7	N		
2	Cobalt dichloride 二氯化鈷	7646-79-9	N		
3	Diarsenic pentaoxide 五氧化二砷	1303-28-2	N		
4	Diarsenic trioxide 三氧化二砷	1327-53-3	N		
5	Sodium dichromate 重鉻酸鈉	7789-12-0	N		
6	Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯	84-74-2	N		
7	Bis (2-ethylhexyl)phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯	117-81-7	N		
8	Benzyl butyl phthalate (BBP) 鄰苯二甲酸丁苄酯	85-68-7	N		
9	Lead hydrogen arsenate 酸式砷酸鉛	7784-40-9	N		
10	Triethyl arsenate 三乙基砷酸鈉	15606-95-8	N		
11	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) 六溴環十二烷和主要異構體	25637-98-4 and 3194-65-6	N		
12	4,4'-Diaminodiphenylmethane (MDA) 4,4'-二氨基二苯甲烷	101-77-9	N		
13	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCPs) 短鏈氯化石蠟	85535-84-8	N		
14	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) 5-叔丁基-2,4,6-三硝基間二甲苯, 二甲	81-15-2	N		
15	Bis(tributyltin) oxide (TBTO) 三丁基錫氧化物	58-35-9	N		
16	Anthracene oil 蒽油	90840-80-5	N		
17	Anthracene oil, anthracene paste, distn, lights 蒽油, 蒽糊, 乾油	91995-17-4	N		
18	Anthracene oil, anthracene paste, anthracene fraction 蒽油, 蒽糊, 蒽級分	91995-15-2	N		
19	Anthracene oil, anthracene-low 蒽油, 含蒽量少	90840-82-7	N		
20	Anthracene oil, anthracene paste 蒽油, 蒽糊	90840-81-8	N		
21	Pitch, coal tar, high temp. 瀝青, 高溫	65996-93-2	N		
*22	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 氧化鋯矽酸鋁耐火陶瓷纖維	--	N		
*23	Aluminosilicate Refractory Ceramic Fibres (RCF) 矽酸鋁耐火陶瓷纖維	--	N		
24	2,4-Dinitrotoluene (DNT) 2,4-二硝基甲苯	121-14-2	N		
25	Diisobutyl phthalate (DIBP) 鄰苯二甲酸二異丁酯	84-89-5	N		
26	Lead chromate 鉻酸鉛(鎘黃)	7758-07-6	N		
27	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) 鉻酸鉛(C.I. 顏料紅)	12656-85-8	N		
28	Lead sulfochromate yellow (C.I. Pigment Yellow 34) 鉻酸鉛(C.I. 顏料黃34)	1344-37-2	N		
29	Tris(2-chloroethyl)phosphate (TCEP) 三(2-氯乙基)磷酸鈉	115-86-8	N		
30	Acrylamide 丙稀醯胺	79-06-1	N		
31	Trichloroethylene 三氯乙稀	79-01-6	N		

32	Boric acid 硼酸	10043-35-3 11113-56-1	N	
33	Disodium tetraborate, anhydrous 無水四硼酸鈉	1303-96-4 1330-43-4	N	
34	Tetraboron disodium heptaoxide, hydrate 七水合四硼酸鈉	12267-73-1	N	
35	Sodium chromate 鉻酸鈉	7775-11-3	N	
36	Potassium chromate 鉻酸鉀	7789-00-6	N	
37	Ammonium dichromate 重鉻酸銨	7789-09-5	N	
38	Potassium dichromate 重鉻酸鉀	7778-50-9	N	
39	Cobalt(II) sulphate 硫酸鈷	10124-43-3	N	
40	Cobalt(II) dinitrate 硝酸鈷	10141-05-6	N	
41	Cobalt(II) carbonate 碳酸鈷	513-79-1	N	
42	Cobalt(II) diacetate 醋酸鈷	71-48-7	N	
43	2-Methoxyethanol 乙二醇單甲醚	109-86-4	N	
44	2-Ethoxyethanol 乙二醇單乙醚	110-80-5	N	
45	Chromium trioxide 三氧化鉻	1333-82-0	N	
46	Acids generated from chromium trioxide and their oligomers 從三氧化鉻產生的酸類 以及它們的寡聚物 Group containing: Chromic acid 鉻酸, Dichromic acid 重鉻酸	7738-94-5 13530-68-2	N	
47	2-Ethoxyethyl acetate 乙二醇乙醚乙酸酯	111-15-9	N	
48	Strontium chromate 鉻酸銣	7789-08-2	N	
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters 1,2-苯二羧二(C7-11支鏈與直鏈)烷基醇酯; DHNUP	68515-42-4	N	
50	Hydrazine 肼, 聯氨	7803-57-8/ 302-01-2	N	
51	1-Methyl-2-pyrrolidinone 1-甲基-2-吡咯烷酮, N-甲基吡咯烷酮	872-50-4	N	
52	1,2,3-Trichloropropane 1,2,3-三氯丙烷	96-18-4	N	
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich 1,2-苯二羧二 (C6-8支鏈)烷基醇(富C7) DIHP	71888-89-6	N	
54	Lead dipicrate 苦味酸鉛	6477-64-1	N	
55	Lead styptrate 收斂酸鉛	15245-44-0	N	
56	Lead diazide, Lead azide 疊氮化鉛	13424-48-9	N	
57	Phenolphthalein 酚酞	77-09-8	N	
58	2,2'-dichloro-4,4'-methylenedianiline (MOCA) 4,4'-亞甲基雙鄰氯苯胺	101-14-4	N	
59	N,N-dimethylacetamide (DMAC) N,N-二甲基乙酰胺	127-19-5	N	
60	Trilead diarsenate 砷酸鉛	3687-31-6	N	
61	Calcium arsenate 砷酸鈣	7778-44-1	N	
62	Arsenic acid 砷酸	7778-39-4	N	
63	Bis(2-methoxyethyl) ether 二乙二醇二甲醚	111-96-6	N	
64	1,2-Dichloroethane 1,2-二氯乙烷	107-06-2	N	
65	4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 對特辛基苯酚	140-66-9	N	
66	2-Methoxyaniline o-Anisidine 鄰甲氧基苯胺	90-04-0	N	
67	Bis(2-methoxyethyl) phthalate 鄰苯二甲酸二甲氧乙酯(DMEP)	117-82-6	N	
68	Formaldehyde, oligomeric reaction products with aniline (technical MDA) 甲醛苯胺共	25214-70-4	N	
69	Pentazinc chromate octahydroxide 鉻黃(C.I.顏料黃 38)	48693-84-5	N	
70	Potassium hydroxyoctaoxodizincatedichromate 氫氧化鉻酸鉀鉍	11103-86-9	N	
71	Dichromium tris(chromate) 鉻酸鉻	24613-89-6	N	
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme) 1,2-二(2-甲氧基乙氧基)乙烷; 三乙二醇二甲醚	112-49-2	N	
73	1,2-dimethoxyethane;ethylene glycol dimethyl ether (EGDME) 乙二醇二甲醚; 1,2-二甲氧基乙烷	110-71-4	N	
74	Diboron trioxide 三氧化二硼	1303-86-2	N	
75	Formamide 甲酰胺	75-12-7	N	
76	Lead(II) bis(methanesulfonate) 甲基磺酸鉛(II)	17570-76-2	N	
77	1,3,5-tris(oxodranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione(TGIC) 異氰尿酸三醇水甘油酯; 1,3,5-三醇水甘油-S-三嗪三酮	2451-62-9	N	
78	1,3,5-bis(2S and 2R)-2,3-epoxypropyl-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione(B-TGIC)	59653-74-6	N	
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone) 4,4'-雙(二甲胺基)二苯基酮;	90-94-8	N	

80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline(Michler's base) 米其勒鹼 (N,N,N',N'-四甲基-4,4'-亞甲基二苯胺)	101-61-1	N	
81	[4-[[4-anilino-1-naphthyl]([4-(dimethylamino)phenyl]methylene)cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [with > 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] 鹼性藍 26 ([4-[[4-苯胺基-1-萘基]]4-]	2580-56-5	N	
82	[4-[[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with > 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No.202-959-2)] 結晶紫; 14-雙(4-(二甲氨基)苯基)亞甲基-2,5-環己二烯-1-基鹼	548-62-9	N	
83	4,4'-bis(dimethylamino)-4''-(methylamino)irityl alcohol(with > 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)) 4,4'-雙(二甲氨基)-4''-(甲	561-41-1	N	
84	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol(C.I. Solvent Blue 41) [with >0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base	6786-83-0	N	
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) 十溴二苯醚	1163-19-5	N	
86	Pentacosfluoroundecanoic acid 全氟十三烷酸	72629-94-8	N	
87	Tricosfluorododecanoic acid 全氟十二烷酸	307-55-1	N	
88	Henicosfluoroundecanoic acid 全氟十一烷酸	2058-94-8	N	
89	Heptacosfluorotetradecanoic acid 全氟十四烷酸	376-06-7	N	
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) 偶氮二甲酰胺	123-77-3	N	
91	"Cyclohexane-1,2-dicarboxylic anhydride [1]; cis-cyclohexane-1,2-dicarboxylic anhydride [2]; trans-cyclohexane-1,2-dicarboxylic anhydride [3]; [The individual cis-[2] and trans-[3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]. 環己烷-1,2-二羧酸酐，包括環式-環己烷-1,2-二羧酸酐、反式-環己烷-1,2-二羧酸酐單體以及所有環式、反式的組合"	85-42-7, 13149-00-3, 14166-21-3	N	
92	"Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4]; [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] 甲基六氫鄰苯二甲酸酐、4-甲基六氫鄰苯二甲酸酐、1-甲基六氫鄰苯二甲酸酐、3-甲基六氫鄰苯二甲酸酐，包括環式4種物質環式、反式單體以及相應物質所有環式、反式的組	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	N	
93	"4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] 4-壬基(支鏈與直鏈)苯酚，包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性成分支9個碳烷基鏈的UVCB物質"	--	N	
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] 對特辛基苯酚乙氧基醚，包括物	--	N	
95	Methoxyacetic acid 甲氧基乙酸	625-45-8	N	
96	N,N-dimethylformamide N,N-二甲基甲酰胺	68-12-2	N	
97	Dibutyltin dichloride (DBTC) 二丁基二氯化錫	683-18-1	N	
98	Lead monoxide (Lead oxide) 一氧化鉛; 黃丹	1317-36-8	N	
99	Orange lead (Lead tetroxide) 四氧化三鉛	1314-41-6	N	
100	Lead bis(tetrafluoroborate) 四氫硼酸鉛	13814-96-5	N	
101	Trilead bis(carbonate)dihydroxide 碳式碳酸鉛	1319-46-6	N	
102	Lead titanium trioxide 鈦酸鉛	12060-90-3	N	
103	Lead titanium zirconium oxide 鈦酸鉛錳	12626-81-2	N	
104	Silicic acid, lead salt 矽酸鉛	11120-22-2	N	
105	"Silicic acid (H2Si2O5), barium salt (1:1), lead-doped, [with lead (Pb) content above	68794-75-8	N	
106	1-bromopropane (n-propyl bromide) 1-溴丙烷; 溴代正丙烷	106-94-5	N	
107	Methyloxirane (Propylene oxide) 環氧丙烷	75-56-9	N	
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear 1,2-苯二酸-二(支鏈	84777-06-0	N	
109	Diisopentylphthalate (DIPP) 鄰苯二甲酸二異戊酯	605-50-5	N	
110	N-pentyl-isopentylphthalate 鄰苯二甲酸正戊基異戊基酯	776297-89-9	N	
111	1,2-Diethoxyethane 乙二醚二乙醚	629-14-1	N	
112	Acetic acid, lead salt, basic 碳式乙酸鉛	51404-69-4	N	
113	Lead oxide sulfate 碳式硫酸鉛	12036-76-9	N	

114	[Phthalato(2-)]dioxotrilead 二铅基邻苯二甲酸铅	69011-06-9	N	
115	Dioxobis(stearato)trilead 双(十八酸基)二氧化三铅	12578-12-0	N	
116	Fatty acids, C16-18, lead salts C16-18-脂肪酸铅盐	91031-62-8	N	
117	Lead cyanamate 氨基氰铅盐	20637-86-9	N	
118	Lead dinitrate 硝酸铅	10099-74-8	N	
119	Pentalead tetracoxide sulphate 氧化铅与硫酸铅的复合物; 硫酸四氧化五铅	12065-90-6	N	
120	Pyrochloro, antimony lead yellow C.I.染料黄41; 铅橙黄	8012-00-8	N	
121	Sulfurous acid, lead salt, dibasic 二碱式亚硫酸铅	62229-09-7	N	
122	Tetraethyllead 四乙基铅	76-00-2	N	
123	Tetralead trioxide sulphate 硫酸三氧化四铅	12202-17-4	N	
124	Trilead dioxide phosphonate 二碱式亚磷酸铅	12141-20-7	N	
125	Furan 呋喃	110-00-9	N	
126	Diethyl sulphate 硫酸二乙酯	64-67-5	N	
127	Dimethyl sulphate 硫酸二甲酯	77-78-1	N	
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine 3-乙基-2-甲基-2-(3-甲基丁基)咪唑啉	143860-04-2	N	
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol) 地乐胺;二硝丁醇	88-85-7	N	
130	4,4'-methylene-di-o-toluidine 4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	N	
131	4,4'-oxydianiline and its salts 4,4'-二氨基二苯醚	101-80-4	N	
132	4-aminoazobenzene 4-氨基偶氮苯	60-09-3	N	
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine) 2,4-二氨基甲苯	95-80-7	N	
134	6-methoxy-m-toluidine (p-cresidine) 2-甲氧基-5-甲基苯胺	120-71-8	N	
135	Biphenyl-4-ylamine 4-氨基联苯	92-67-1	N	
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)] 邻-氨基偶氮甲苯	97-56-3	N	
137	o-toluidine 邻甲苯胺; 2-氨基甲苯	95-53-4	N	
138	N-methylacetamide N-甲基乙酰胺	79-16-3	N	
139	Cadmium 镉	7440-43-9	N	
140	Ammonium pentadecafluorooctanoate (APFO) 全氟辛酸铵	3825-26-1	N	
141	Pentadecafluorooctanoic acid (PFCA) 全氟辛酸	335-67-1	N	
142	Dipentyl phthalate (DPP) 邻苯二甲酸二戊酯	131-18-0	N	
143	*4-Nonylphenol, branched and linear, ethoxylated <->[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to	--	N	
144	Cadmium oxide 氧化镉	1306-19-0	N	
145	Cadmium sulphide 硫化镉	1306-23-6	N	
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) C.I.直接红28	573-58-0	N	
147	Disodium 4-amino-3-[[4'-[[2,4-diaminophenyl]azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) C.I.直接黑38	1937-37-7	N	
148	Dihexyl phthalate, Di-n-Hexyl Phthalate 邻苯二甲酸二己酯(DNHP)	84-75-3	N	
149	Imidazolidine-2-thione (2-imidazoline-2-thiol) 亚乙基硫脲	96-45-7	N	
150	Lead di(acetate) 醋酸盐	301-04-2	N	
151	Triethyl phosphate, dimethylphenol phosphate 磷酸三(二甲苯)酯, 磷酸二甲酯	25155-23-1	N	
152	Cadmium chloride 氯化镉	10108-64-2	N	
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 邻苯二甲酸二(支链或直链)己酯	68515-50-4	N	
154	Sodium peroxometaborate 过硼酸钠	7632-04-4	N	
155	Sodium perborate; perboric acid, sodium salt 过硼酸钠, 水合物; 过硼酸钠盐	--	N	
156	Cadmium fluoride 氟化镉	7790-79-8	N	
157	Cadmium sulphate 硫酸镉	10124-36-4, 34449-53-5	N	
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) 紫外吸收剂 UV-320	3846-71-7	N	
159	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328) 紫外吸收剂 UV-328	25973-55-1	N	
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTF) 乙基(4,4-二辛基-7-氧-8-噻唑-3,5-二硫代)-4-十四硫代癸酸-2-乙基己基酯	15571-58-1	N	
161	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-(2-ethylhexyloxy)-2-	--	N	
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with > 0.3% of dihexyl phthalate (C.N.	68515-51-5, 68648-93-1	N	

163	*5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] (covering any of the	--	N	
164	Nitrobenzene 硝基苯	98-95-3	N	
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) 2,4-二叔丁基-6-(5-氯-2H-苯并三嗪-2-基)苯酚(UV-327)	3864-99-1	N	
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) 2-(2H-苯并三嗪-2-基)-4-(叔丁基)-6-(仲丁基)苯酚(UV-350)	36437-37-3	N	
167	1,3-propanesultone 1,3-丙烷磺內酯	1120-71-4	N	
168	Perfluorononan-1-ol-acid and its sodium and ammonium salts 全氟壬酸及其鈉和銨鹽	375-95-1, 21049-39-8	N	
169	Benzo[a]pyrene (BaP) 苯並(a)芘	50-32-8	N	
170	4,4'-isopropylidenediphenol (bisphenol A; BPA) 双酚A (BPA)	80-05-7	N	
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts 全氟癸酸 (PFDA) 及其鈉和銨鹽	3108-42-7 335-76-2	N	
172	p-(1,1-dimethylpropyl)phenol 4-(1,1-二甲基丙基)苯酚 (别名 : 對叔戊基苯酚)	80-46-6	N	
173	*4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] 支鏈與直鏈的4-庚基酚 (直鏈和/或支鏈的具有7個碳原子的烷基鏈共價鍵在4位的苯酚, 囊括了UVCB和定義明確的物質, 其中包括任何單獨異構體和/或它們的組合)	--	N	
174	perfluorohexane-1-sulphonic acid 全氟己基磺酸	355-46-4	N	
175	Chrysene 蒽	218-01-9	N	
176	Benzo[a]anthracene 苯並(a)蒽	56-55-3	N	
177	Cadmium nitrate 硝酸鎘	10325-94-7	N	
178	Cadmium hydroxide 氫氧化鎘	21041-95-2	N	
179	Cadmium carbonate 碳酸鎘	513-78-0	N	
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) (covering any of its individual anti- and syn-isomers or any combination thereof)	--	N	
181	*Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear 1,3,4-噻二嗪-2,5-二硫脲, 甲醛和4-庚基苯酚的支鏈和直鏈 (RP-HP) 的反應物] (4-庚基	--	N	
182	Octamethylcyclotetrasiloxane (D4) 八甲基環四硅氧烷 (D4)	556-67-2	N	
183	Decamethylcyclopentasiloxane (D5) 十甲基環五硅氧烷 (D5)	541-02-6	N	
184	Dodecamethylcyclohexasiloxane (D6) 十二甲基環六硅氧烷 (D6)	540-97-6	N	
185	Lead 鉛	7439-92-1	N	
186	Disodium octaborate 氧化硼鈉	12008-41-2	N	
187	Benzo[ghi]perylene 苯並[ghi]芘	191-24-2	N	
188	Terphenyl hydrogenated 氫化三聯苯	61788-32-7	N	
189	Ethylenediamine (EDA) 乙二胺	107-16-3	N	
190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA) 苯-1,2,4-三羧酸1,2-酐 (偏苯三酸酐)	552-30-7	N	
191	Dicyclohexyl phthalate (DCHP) 鄰苯二甲酸二環己酯	84-61-7	N	
192	2,2-bis(4'-hydro xyphenyl)-4-methylpentane 4,4'-(1,3-二甲 基丁基)二苯酚	6807-17-6	N	
193	Benzo[k]fluoranthene 苯並(k)芘	207-08-9	N	
194	Fluoranthene 芘	206-44-0	N	
195	Phenanthrene 菲	85-01-8	N	
196	Pyrene 芘	129-00-0	N	
197	1,7,7-trimethyl(3-(phenylmethyl ene)bicyclo[2.2. 1]heptan-2-one 3-亞苄基降莖	15087-24-8	N	
198	2-m ethoxyethyl acetate 乙酸2-甲氧基乙酯	110-48-6	N	
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) 三(4-壬基苯基, 支鏈和直鏈)亞磷酸酯 (TNPP) 含0.1% W/W 的4-壬基苯酚支鏈和直鏈(4-NP)	--	N	
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) 2,3,3,3-四氟-2-(七氟丙氧基) 丙酸及其鈉和酰基鹵化物(包括任何含有獨立或組合的同分異構體物質)	--	N	
201	4-tert-butylphenol (PTBPM)-叔丁基苯酚	98-54-4	N	

202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone-2-苄基-2-二甲氨基-1-(4-吗啉基基)丁酮	119313-12-1	N		
203	2-methyl-1-(4-methylthiophenyl)-2-morpholino propan-1-one 壳引登露901	71868-10-5	N		
204	Diisohexyl phthalate 二異己基鄰苯二甲酸酯	71850-09-4	N		
205	Perfluorobutane sulfonic acid (PFBS) and its salts 全氟丁烷磺酸及其鹽類	--	N		
206	1-vinylimidazole 1-乙基基咪唑	1072-63-5	N		
207	2-methylimidazole 2-甲基咪唑	693-98-1	N		
208	butyl 4-hydroxybenzoate 對羟基苯甲酸丁酯	94-26-8	N		
209	Dibutylbis(pentane-2,4-dionato-O,O')tin 雙(乙基丙酸)二丁基錫	22673-19-4	N		

*物質含量(ppm): 請填寫數值或檢測結果。如果空白，說明未含有該物質。

* Substances (ppm): Please fill in the values or test results, if the block is "blank": it means "Does not contain the substance".

PCB:



有效性不詳
For Question, Please
Contact with SGS
www.sgs.com.tw

測試報告 Test Report

號碼(No.): CE/2019/94936 日期(Date): 2019/10/04 頁數(Page): 1 of 10

鼎成實業股份有限公司
TOP EVER-SUN CO., LTD.
新北市新莊區環境林南路77之31號
NO. 77-31, QIONGLIN S. RD., XINZHUANG DIST., NEW TAIPEI CITY, 24263 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/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 鼎成實業股份有限公司 (TOP EVER-SUN CO., LTD.)
樣品名稱(Sample Description) : E302169 LEAD FREE HASL PCB
收件日期(Sample Receiving Date) : 2019/09/27
測試期間(Testing Period) : 2019/09/27 to 2019/10/04

測試需求(Test Requested):

- (1) 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).)
- (2) 其他測試項目請見下一頁。(Please refer to next pages for the other item(s).)

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


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



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測試結果(Test Results)

測試部位(PART NAME)No.1 : 綠色印刷電路板 (GREEN PCB)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)
				No. 1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5 (2013) 以感應耦合電漿發射光譜儀檢測。 / With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	n. d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5 (2013) 以感應耦合電漿發射光譜儀檢測。 / With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	6.09
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4:2013+ AMD1:2017 以感應耦合電漿發射光譜儀檢測。 / With reference to IEC 62321-4:2013+ AMD1:2017 and performed by ICP-OES.	2	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321-7-2 (2017) 以UV-VIS 檢測。 / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	n. d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Anide)	mg/kg	參考CEN/TS 15968 (2010) 以液相層析/質譜儀檢測。 / With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS.	0.01	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	參考CEN/TS 15968 (2010) 以液相層析/質譜儀檢測。 / With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS.	0.01	n. d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)
				No. 1
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 (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321 (2008), 以氣相層析/質譜儀檢測。 / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6 (2015), 以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	n. d.
一溴聯苯 / Monobromobiphenyl	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.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n. d.
一溴聯苯醚 / Monobromodiphenyl ether	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.	

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)
				No. 1
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	參考IEC 62321-8 (2017), 以氣相層析 /質譜儀檢測。 / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸丁苄甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n. d.
鄰苯二甲酸二異丁酯 / DiBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	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.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (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) (CAS No.: 117-84-0)	mg/kg		50	n. d.

備註(Note):

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

PFOS參考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 2019/1021

PFOS濃度在物質或製備中不得超過0.001%(10ppm), 在半成品、成品或零部件中不得超過0.1%(1000ppm), 在紡織品或塗層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².)

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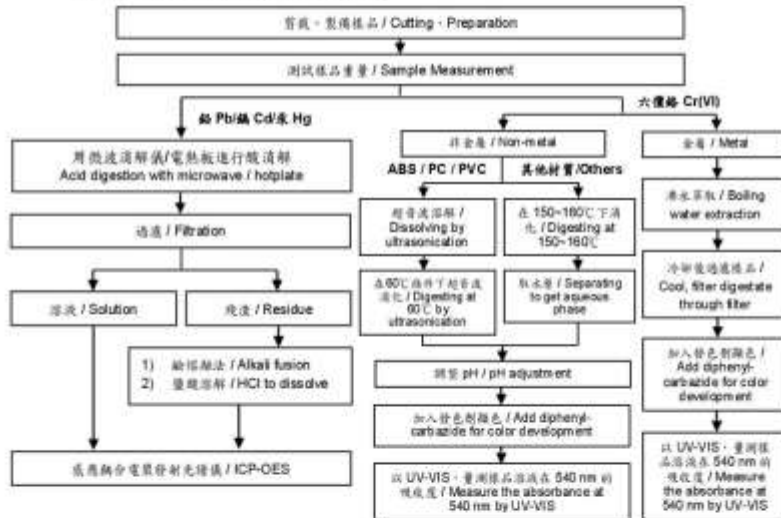
號碼(No.): CE/2019/94936 日期(Date): 2019/10/04 頁數(Page): 5 of 10

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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^{VI} test method excluded)

- 測試人員: 陳思培 / Technician: Rita Chen
- 測試負責人: 張政興 / Supervisor: Troy Chang



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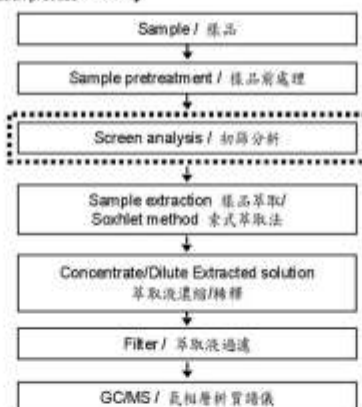
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員: 涂雅琴 / Technician: Yaling Tu
- 測試負責人: 張亞輝 / Supervisor: Troy Chang

初步測試程序 / First testing process →
選擇性篩檢程序 / Optional screen process
確認程序 / Confirmation process - - - →



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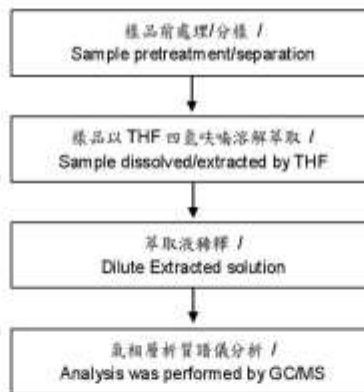
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員: 涂雅苓 / Technician: Yaling Tu
- 測試負責人: 張欣興 / Supervisor: Troy Chang

【測試方法/Test method: IEC 62321-8】



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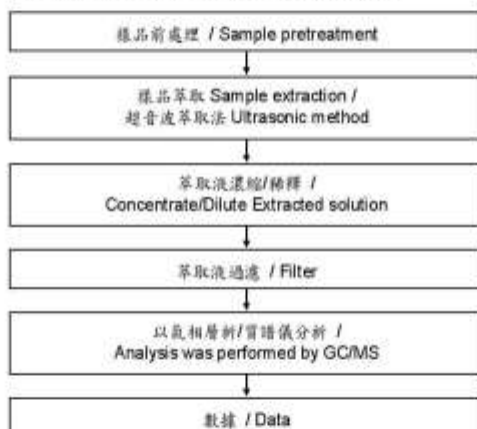
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員：涂雅琴 / Technician: Yaling Tu
- 測試負責人：張世興 / Supervisor: Troy Chang



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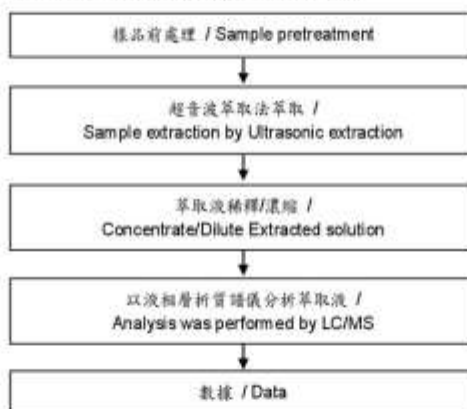
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員: 涂雅琴 / Technician: Yaling Tu
- 測試負責人: 張啟興 / Supervisor: Troy Chang



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測試報告 Test Report

號碼(No.): CE/2019/94936

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鼎成實業股份有限公司

TOP EVER-SUN CO., LTD.

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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.)

CE/2019/94936



CE/2019/94936



** 報告結尾 (End of Report) **

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測試報告 Test Report

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鼎威實業股份有限公司
TOP EVER-SUN CO., LTD.
新北市新莊區瑠林南路77之31號
NO. 77-31, QIONGLIN S. RD., XINZHUANG DIST., NEW TAIPEI CITY, 24263 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/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 鼎威實業股份有限公司 (TOP EVER-SUN CO., LTD.)
樣品名稱(Sample Description) : E302169 PCB
收件日期(Sample Receiving Date) : 2019/09/27
測試期間(Testing Period) : 2019/09/27 to 2019/10/04 and 2020/01/17 to 2020/03/05 and 2020/06/29 to 2020/07/17

測試需求(Test Requested) : 依據客戶指定, 參考REACH之Regulation (EC) No 1907/2006的公告進行以下測試 / As specified by client, the sample(s) was/were tested with reference to Regulation (EC) No 1907/2006 concerning the REACH.
■ 209項高關注物質候選清單, 於2020年06月25日公告 / 209 Substances of Very High Concern (SVHC). Candidate list is published on June 25, 2020

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).
總結(Summary) : 根據歐洲法院對於REACH規範下成品定義的裁決以及指定範圍和分析技術, 送測樣品中所選擇的零組件成品的高關注物質(SVHC) 測試結果濃度均小於0.1%(w/w) / According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope as well as analytical technique, the test results of the selected component article are $\leq 0.1\%$ (w/w) in the submitted sample(s).

* 此份報告為加測CC/2019/90254及合併CC/2019/90254A之報告 *
(This report is added testing by CC/2019/90254 and combined with CC/2019/90254A)

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




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測試樣品(Test Sample): 黑色印刷電路板 (BLACK PCB)

測試方法(Test Method):

參考SGS內部方法RSTS-EE-SVHC-007, 由感應耦合電漿發射光譜儀、紫外光可見光譜儀、氣相層析/質譜儀、液相層析/質譜儀、氣相層析儀/火焰光度偵測器、液相層析/質譜儀/二極體陣列偵測器、超高效能液相層析串聯質譜儀進行分析。(SGS In-house method-RSTS-EE-SVHC-007. Analyzed by ICP-OES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD, UPLC-MS/MS.)

測試結果 (Test Results)

No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
1.	4,4'-二氨基二苯甲烷 / 4,4'-Diaminodiphenylmethane (MDA) (CAS No.: 101-77-9)	0.05	n.d.
2.	二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	0.05	n.d.
3.	短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	0.05	n.d.
4.	蒽 / Anthracene (CAS No.: 120-12-7)	0.05	n.d.
5.	鄰苯二甲酸二苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	0.05	n.d.
6.	氧化雙三丁基錫 / Bis(tributyltin)oxide (TBTU)*** (CAS No.: 56-35-9)	-	n.d.
7.	五氧化二砷 / Diarsenic pentoxide*** (CAS No.: 1303-28-2)	-	n.d.
8.	三氧化二砷 / Diarsenic trioxide*** (CAS No.: 1327-53-3)	-	n.d.
9.	鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	0.05	n.d.
10.	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 (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	0.05	n.d.
11.	仲酸氫鉛 / Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (禁1)	-	n.d.
12.	重鉻酸鈉 / Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*)	-	n.d.
13.	三乙基砷酸酯 / Triethyl arsenate*** (CAS No.: 15606-95-8)	-	n.d.
14.	鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7)	0.05	n.d.
15.	2,4-二硝基甲苯 / 2,4-Dinitrotoluene (CAS No.: 121-14-2)	0.05	n.d.
16.	蒽油 / Anthracene oil (CAS No.: 90640-80-5) (**)	0.05	n.d.
17.	蒽油, 蒽物, Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	0.05	n.d.
18.	蒽油, 蒽物, 蒽縮分 / Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	0.05	n.d.

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No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
19.	蒞油, 蒞糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	0.05	n. d.
20.	蒞油, 含蒞量少 / Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)	0.05	n. d.
21.	鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	0.05	n. d.
22.	鉻酸鉛 / Lead chromate*** (CAS No.: 7758-97-6) (※5)	-	n. d.
23.	鉻鉬紅; 顏色索引; 顏料紅104 / Lead chromate molybdate sulphate red*** (C.I. Pigment Red 104) (CAS No.: 12656-85-8) (※5)	-	n. d.
24.	鉻酸鉛; 顏色索引; 顏料黃34 / Lead sulfochromate yellow*** (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2) (※5)	-	n. d.
25.	煤瀝青, 高溫 / Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)	0.05	n. d.
26.	磷酸三(2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	0.05	n. d.
27.	丙烯醯胺 / Acrylamide (CAS No.: 79-06-1)	0.05	n. d.
28.	重鉻酸銨 / Ammonium dichromate*** (CAS No.: 7789-09-5)	-	n. d.
29.	硼酸 / Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	-	n. d.
30.	無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	-	n. d.
31.	鉻酸鉀 / Potassium chromate*** (CAS No.: 7789-00-6)	-	n. d.
32.	重鉻酸鉀 / Potassium dichromate*** (CAS No.: 7778-50-9)	-	n. d.
33.	鉻酸鈉 / Sodium chromate*** (CAS No.: 7775-11-3)	-	n. d.
34.	水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (*2)	-	n. d.
35.	三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	0.05	n. d.
36.	乙二醇乙醚 / 2-Ethoxyethanol (CAS No.: 110-80-5)	0.05	n. d.
37.	乙二醇甲醚 / 2-Methoxyethanol (CAS No.: 109-86-4)	0.05	n. d.
38.	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.
	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.
	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.
39.	三氧化鉻 / Chromium trioxide *** (CAS No.: 1333-82-0)	-	n. d.

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No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
40.	碳酸鈷(二價) / Cobalt(II) carbonate*** (CAS No.: 513-79-1)	-	n. d.
41.	醋酸鈷(二價) / Cobalt(II) diacetate*** (CAS No.: 71-48-7)	-	n. d.
42.	硝酸鈷(二價) / Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)	-	n. d.
43.	硫酸鈷(二價) / Cobalt(II) sulphate*** (CAS No.: 10124-43-3)	-	n. d.
44.	1,2,3-三氯丙烷 / 1,2,3-trichloropropane (CAS No.: 96-18-4)	0.05	n. d.
45.	鄰苯二甲酸二(C6-8支鏈)烷基酯·富C7 / 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	0.05	n. d.
46.	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 (DHNUP) (CAS No.: 68515-42-4)	0.05	n. d.
47.	N-甲基吡咯烷酮 / 1-methyl-2-pyrrolidone (CAS No.: 872-50-4)	0.05	n. d.
48.	乙二醇乙醚乙酸酯 / 2-ethoxyethyl acetate (CAS No.: 111-15-9)	0.05	n. d.
49.	聯氨 / Hydrazine (CAS No.: 7803-57-8; 302-01-2)	0.05	n. d.
50.	鉻酸鋇 / Strontium chromate*** (CAS No.: 7789-06-2)	-	n. d.
51.	二氯化鈷 / Cobalt dichloride (CAS No.: 7646-79-9)	0.005	n. d.
52.	1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	0.05	n. d.
53.	4,4'-亞甲雙(2-氯苯胺) / 2,2'-dichloro-4,4'-methylenedianiline (MOCA) (CAS No.: 101-14-4)	0.05	n. d.
54.	鄰甲氧基苯胺 / 2-Methoxyaniline; o-Anisidine (CAS No.: 90-04-0)	0.05	n. d.
55.	對特辛基苯酚 / 辛基酚 / 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	0.05	n. d.
56.	矽酸鋁·耐火陶瓷纖維 (主要成分濃度於可變範圍內) / Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】	0.05	n. d.
57.	砷酸 / Arsenic acid*** (CAS No.: 7778-39-4)	-	n. d.
58.	雙(2-甲氧基乙基)醚 / Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)	0.05	n. d.
59.	鄰苯二甲酸二甲氧基乙酯 / Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)	0.05	n. d.
60.	砷酸鈣 / Calcium arsenate*** (CAS No.: 7778-44-1)	-	n. d.
61.	鉻酸鉻 / Dichromium tris (chromate)*** (CAS No.: 24613-89-6)	-	n. d.
62.	甲醛與苯胺的寡聚體 / Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)	0.05	n. d.

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No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
63.	疊氮化鉛 / Lead diazide, Lead azide*** (CAS No.: 13424-46-9)	-	n. d.
64.	苦味酸鉛 / Lead dipicrate*** (CAS No.: 6477-84-1)	-	n. d.
65.	中性斯替酸鉛 / Lead styphnate*** (CAS No.: 15245-44-0)	-	n. d.
66.	N,N-二甲基乙酰胺 / N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	0.05	n. d.
67.	八氫氧化五鉻酸鉍 / Pentazine chromate octahydroxide*** (CAS No.: 49663-84-5)	-	n. d.
68.	酚酞 / Phenolphthalein (CAS No.: 77-09-8)	0.05	n. d.
69.	氫氧化鉻酸鉍鉀 / Potassium hydroxyoctaoxidizincatedi- chromate*** (CAS No.: 11103-80-9)	-	n. d.
70.	砷酸鉛 / Trilead diarsenate*** (CAS No.: 3687-31-8) (※1)	-	n. d.
71.	矽酸鋁錳-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】	0.05	n. d.
72.	鹼性藍 26 [內含≥ 0.1% 的米氏酮或米氏鹼] / [4-[[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C. I. Basic Blue 26) (CAS No.: 2580-56-5) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n. d.
73.	鹼性紫 3 [內含≥ 0.1% 的米氏酮或米氏鹼] / [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C. I. Basic Violet 3) (CAS No.: 548-62-9) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n. d.
74.	三甘醇二甲醚 / 1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme) (CAS No.: 112-40-2)	0.05	n. d.
75.	乙二醇二甲醚 / 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	0.05	n. d.
76.	異氰尿酸三縮水甘油酯 / TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) (CAS No.: 2451-62-9)	0.05	n. d.
77.	異氰尿酸β-三縮水甘油酯 / β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) (CAS No.: 59653-74-6) (※3)	0.05	n. d.
78.	α, α'-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 [內含≥ 0.1% 的米氏酮或米氏鹼] / 4,4'-bis (dimethylamino)-4'-(methylamino) trityl alcohol (CAS No.: 561-41-1) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n. d.

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鼎成實業股份有限公司
TOP EVER-SUN CO., LTD.

新北市新莊區環林南路77之31號

NO. 77-31, QIONGLIN S. RD., XINZHUANG DIST., NEW TAIPEI CITY, 24263 TAIWAN (R. O. C.)

No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
79.	4,4'-二(N,N-二甲氨基)二苯甲酮(米氏酮) / 4,4'-bis (dimethylamino) benzophenone (Michler's ketone) (CAS No.: 90-94-8)	0.05	n. d.
80.	三氧化二硼 / Diboron trioxide*** (CAS No.: 1303-86-2)	-	n. d.
81.	甲酰胺 / Formamide (CAS No.: 75-12-7)	0.05	n. d.
82.	甲基磺酸鉛 / Lead(II) bis(methanesulfonate)*** (CAS No.: 17570-76-2)	-	n. d.
83.	4,4'-(對二甲氨基)二苯基甲烷(米氏鹼) / N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) (CAS No.: 101-61-1)	0.05	n. d.
84.	溶劑藍 4 [內含≥ 0.1% 的米氏酮或米氏鹼] / α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) (CAS No.: 6786-83-0) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n. d.
85.	[1,2-苯二羧酸根合]二氧化三鉛 / [Phthalato(2-)] dioxotrilead*** (CAS No.: 69011-06-9)	-	n. d.
86.	支鏈和直鏈1,2-苯二羧二戊酯 / 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	0.05	n. d.
87.	乙二醇二乙醚 / 1,2-Diethoxyethane (CAS No.: 629-14-1)	0.05	n. d.
88.	正丙基溴 / 1-bromopropane (CAS No.: 106-94-5)	0.05	n. d.
89.	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-噁唑烷 / 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (CAS No.: 143860-04-2)	0.05	n. d.
90.	4-(1,1,3,3-四甲基丁基)苯酚, 乙氧基 [以及所有的被定義的物質, 未知成分或可變成分的物質, 聚合物和同系物] / 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	0.05	n. d.
91.	4,4'-二氨基-3,3'-二甲基聯苯基甲烷 / 4,4'-methylenedi-o-toluidine (CAS No.: 838-88-0)	0.05	n. d.
92.	4,4'-二氨基二苯胺 / 4,4'-oxydianiline and its salts (CAS No.: 101-80-4)	0.05	n. d.
93.	4-氨基偶氮基苯胺 / 4-Aminoazobenzene (CAS No.: 60-09-3)	0.05	n. d.
94.	2,4-二氨基甲苯 / 4-methyl- <i>m</i> -phenylenediamine (2,4-toluenediamine) (CAS No.: 95-80-7)	0.05	n. d.
95.	分支或線性的壬基酚, 包括含有9個碳烷基鏈的所有獨立的分具構體和所有含有線性成分支9個碳烷基鏈的UVCB物質 / 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	0.05	n. d.

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No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
96.	3-甲基-6-甲氧基苯胺 / 6-methoxy-m-toluidine (p-cresidine) (CAS No.: 120-71-8)	0.05	n. d.
97.	冰式醋酸鉛 / Acetic acid, lead salt, basic*** (CAS No.: 51404-69-4)	-	n. d.
98.	4-胺基聯苯 / Biphenyl-4-ylamine (CAS No.: 92-67-1)	0.05	n. d.
99.	十溴聯苯醚 / Bis(pentabromophenyl) ether (DecaBDE) (CAS No.: 1163-19-5)	0.05	n. d.
100.	六氫苯二甲酸酐 / Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	0.05	n. d.
101.	偶氮[二]甲酰胺 / Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (CAS No.: 123-77-3)	0.05	n. d.
102.	二氯二丁基錫 / Dibutyltin dichloride (DBTC)*** (CAS No.: 683-18-1)	-	n. d.
103.	硫酸二乙酯 / Diethyl sulphate (CAS No.: 64-67-5)	0.05	n. d.
104.	鄰苯二甲酸二異戊酯 / Diisopentylphthalate (CAS No.: 605-50-5)	0.05	n. d.
105.	硫酸二甲酯 / Dimethyl sulphate (CAS No.: 77-78-1)	0.05	n. d.
106.	2-(1-甲基丙基)-4,6-二硝基苯酚 / Dinoseb (CAS No.: 88-85-7)	0.05	n. d.
107.	雙(十八酸基)二氧代三鉛 / Dioxobis(stearato) trilead*** (CAS No.: 12578-12-0)	-	n. d.
108.	C16-18-脂肪酸鉛鹽 / Fatty acids, C16-18, lead salts*** (CAS No.: 91031-62-8)	-	n. d.
109.	呋喃 / Furan (CAS No.: 110-00-9)	0.05	n. d.
110.	全氟十一酸 / Henicosafluoroundecanoic acid (CAS No.: 2058-94-8)	0.05	n. d.
111.	全氟十四酸 / Heptacosafuorotetradecanoic acid (CAS No.: 376-06-7)	0.05	n. d.
112.	甲基六氫苯酐 / Hexahydromethylphthalic anhydride (CAS No.: 25550-51-0) 4-甲基六氫苯酐 / Hexahydro-4-methylphthalic anhydride (CAS No.: 19438-60-9) 1-甲基六氫苯酐 / Hexahydro-1-methylphthalic anhydride (CAS No.: 48122-14-1) 3-甲基六氫苯酐 / Hexahydro-3-methylphthalic anhydride (CAS No.: 57110-29-9)	0.05	n. d.
113.	四氟硼酸鉛 (II) / Lead bis(tetrafluoroborate)*** (CAS No.: 13814-96-5)	-	n. d.
114.	氰基鉛鉛鹽 / Lead cyanamidate*** (CAS No.: 20837-86-9)	-	n. d.
115.	硝酸鉛 / Lead dinitrate*** (CAS No.: 10090-74-8)	-	n. d.
116.	氧化鉛 / Lead oxide (lead monoxide)*** (CAS No.: 1317-36-8)	-	n. d.
117.	冰式硫酸鉛 / Lead oxide sulfate*** (CAS No.: 12036-76-9)	-	n. d.
118.	鈦酸鉛 / Lead titanium trioxide*** (CAS No.: 12060-00-3)	-	n. d.
119.	鈦酸鉛錳 / Lead Titanium Zirconium Oxide*** (CAS No.: 12626-81-2)	-	n. d.

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No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
120.	甲氧基乙酸 / Methoxy acetic acid (CAS No.: 625-45-6)	0.05	n. d.
121.	環氧丙烷 / Propylene oxide; 1,2-epoxypropane; methyloxirane (CAS No.: 75-56-9)	0.05	n. d.
122.	N,N-二甲基甲酰胺 / N,N-dimethylformamide; dimethyl formamide (CAS No.: 68-12-2)	0.05	n. d.
123.	N-甲基乙酰胺 / N-methylacetamide (CAS No.: 79-16-3)	0.05	n. d.
124.	鄰苯二甲酸正戊異戊酯 / N-pentyl-isopentylphthalate (CAS No.: 776297-69-0)	0.05	n. d.
125.	鄰氨基偶氮甲苯 / o-aminoazotoluene (CAS No.: 97-56-3)	0.05	n. d.
126.	四氧化鉛 / Lead tetroxide (orange lead)*** (CAS No.: 1314-41-6)	-	n. d.
127.	鄰甲苯胺 / o-Toluidine; 2-Aminotoluene (CAS No.: 95-53-4)	0.05	n. d.
128.	全氙十三酸 / Pentacosfluorotridecanoic acid (CAS No.: 72629-94-8)	0.05	n. d.
129.	氧化鉛與硫酸鉛的複合物 / Pentalead tetraoxide sulphate*** (CAS No.: 12065-90-6)	-	n. d.
130.	C.I. 顏料黃41 / Pyrochlore, antimony lead yellow*** (CAS No.: 8012-00-8)	-	n. d.
131.	含鉛的矽酸鋁 / Silicic acid, barium salt, lead-doped (密4) (CAS No.: 68784-75-8)	0.05	n. d.
132.	矽酸鉛 / Silicic acid, lead salt*** (CAS No.: 11120-22-2)	-	n. d.
133.	亞硫酸鉛(II) / Sulfurous acid, lead salt, dibasic*** (CAS No.: 62229-08-7)	-	n. d.
134.	四乙基鉛 / Tetraethyllead*** (CAS No.: 78-00-2)	-	n. d.
135.	三鹵式硫酸鉛 / C.I. 顏料白 / Tetralend trioxide sulphate*** (CAS No.: 12202-17-4)	-	n. d.
136.	全氙十二酸 / Tricosfluorododecanoic acid (CAS No.: 307-55-1)	0.05	n. d.
137.	碱式碳酸鉛 / Trilead bis(carbonate) dihydroxide (basic lead carbonate)*** (CAS No.: 1319-46-6)	-	n. d.
138.	磷酸氧化鉛 / Trilead dioxide phosphonate*** (CAS No.: 12141-20-7)	-	n. d.
139.	分支或線性的乙氧基苯酚, 包括含有9個碳烷基鏈的所有獨立的分異構體和所有含有線性或分支9個碳烷基鏈的UVCB物質 / 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	0.05	n. d.
140.	全氙辛酸鉍 / Ammoniumpentadecafluorooctanoate (APFO)*** (CAS No.: 3825-26-1)	-	n. d.
141.	鎘 / Cadmium (Cd) (CAS No.: 7440-43-9)	0.005	n. d.
142.	氧化鎘 / Cadmium oxide*** (CAS No.: 1306-19-0)	-	n. d.
143.	鄰苯二甲酸二戊酯 / Dipentyl phthalate (CAS No.: 131-18-0)	0.05	n. d.
144.	全氙辛酸 / Pentadecafluorooctanoic acid (PFOA) (CAS No.: 335-67-1)	0.05	n. d.
145.	硫化鎘 / Cadmium sulphide*** (CAS No.: 1306-23-6)	-	n. d.

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No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
146.	鄰苯二甲酸二己酯 / Dihexyl phthalate (CAS No.: 84-75-3)	0.05	n. d.
147.	直接紅28 / Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) (CAS No.: 573-58-0)	0.05	n. d.
148.	直接黑38 / Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) (CAS No.: 1937-37-7)	0.05	n. d.
149.	亞乙基硫脲 / Imidazolidine-2-thione; 2-imidazoline-2-thiol (CAS No.: 96-45-7)	0.05	n. d.
150.	醋酸鉛 / Lead di(acetate)*** (CAS No.: 301-04-2)	-	n. d.
151.	磷酸三(二甲苯)酯 / Trixylyl phosphate (CAS No.: 25155-23-1)	0.05	n. d.
152.	鄰苯二甲酸二己酯(支鏈和直鏈) / 1,2-benzenedicarboxylic acid, dihexyl ester, branched and linear (CAS No.: 68515-50-4)	0.05	n. d.
153.	氯化鎘 / Cadmium chloride*** (CAS No.: 10108-64-2)	-	n. d.
154.	過硼酸鈉 / Sodium perborate; perboric acid, sodium salt***	-	n. d.
155.	過氧偏硼酸鈉 / Sodium peroxometaborate*** (CAS No.: 7632-04-4)	-	n. d.
156.	2-(2'-羟基-3',5'-二叔戊基苯基)苯並三唑(紫外線吸收劑328) / 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) (CAS No.: 25973-55-1)	0.05	n. d.
157.	2-[2'-羟基-3',5'-二叔丁基苯基)苯並三唑(紫外線吸收劑320) / 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS No.: 3846-71-7)	0.05	n. d.
158.	二正辛基-雙(2-乙基己基巰基乙酸酯)錫 / 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*** (CAS No.: 15571-58-1)	-	n. d.
159.	氟化鎘 / Cadmium fluoride*** (CAS No.: 7790-79-6)	-	n. d.
160.	硫酸鎘 / Cadmium sulphate*** (CAS No.: 10124-36-4; 31119-53-6)	-	n. d.
161.	二正辛基-雙(2-乙基己基巰基乙酸酯)錫和單辛基-三(2-乙基己基巰基乙酸酯)錫的反應物 / Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and NOTE)***	-	n. d.
162.	鄰苯二甲酸二(C6-10)烷基酯: 鄰苯二甲酸二己、二辛、二癸酯混合物; 鄰苯二甲酸二己酯 ≥ 0.3% / 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (CAS No.: 68515-51-5; 68648-93-1)	0.05	n. d.

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鼎成實業股份有限公司
TOP EVER-SUN CO., LTD.
新北市新莊區環林南路77之31號
NO. 77-31, QIONGLIN S. RD., XINZHUANG DIST., NEW TAIPEI CITY, 24263 TAIWAN (R. O. C.)

No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
163.	5-二級丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷[1], 5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷[2], [任何[1]和[2]或者其任意組合的單獨其構物或其任何組合] / 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	0.05	n. d.
164.	1,3-丙烷磺內酯 / 1,3-propanesultone (CAS No.: 1120-71-4)	0.05	n. d.
165.	2,4-二叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(紫外線吸收劑327) / 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (CAS No.: 3864-99-1)	0.05	n. d.
166.	2-(3-仲丁基-5叔丁基-2-羥基)苯并三唑(紫外線吸收劑 UV-350) / 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (CAS No.: 36437-37-3)	0.05	n. d.
167.	硝基苯 / Nitrobenzene (CAS No.: 98-95-3)	0.05	n. d.
168.	全氟壬酸 / Perfluorononan-1-oic acid (2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 9-heptafluorodecafluorodecanoic acid and its sodium and ammonium salts (CAS No.: 375-95-1; 21049-39-8; 4149-60-4)	0.05	n. d.
169.	苯并(a)芘 / Benzo[def]chrysene (Benzo[a]pyrene) (CAS No.: 50-32-8)	0.05	n. d.
170.	雙酚A / 4,4'-isopropylidenediphenol (Bisphenol A) (CAS No.: 80-05-7)	0.05	n. d.
171.	4-庚基苯酚, 支鍊及直鍊 (4-HPbI): 包括含有7個碳基鏈的所有獨立的同分異構體和所有含有線性成分支7個碳基鏈的UVCB物質 / 4-Heptylphenol, branched and linear (4-HPbI) [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	0.05	n. d.
172.	十九氟癸酸及其鈉和銨鹽 / Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (CAS No.: 3108-42-7, 335-76-2, 3830-45-3)	0.05	n. d.
173.	對(1,1-二甲基丙基)苯酚 / p-(1,1-dimethylpropyl) phenol (PTAP) (CAS No.: 80-46-6)	0.05	n. d.
174.	全氟己基磺酸及其鹽類 / Perfluorohexane-1-sulphonic acid and its salts (PFHxS) (CAS No.: 355-46-4)	0.05	n. d.
175.	德克隆(涵蓋各個反式及順式同分異構體或其相關組合) / 1,6,7,8,9,14,15,16,17, 17,18,18-Dodecachloropentacyclo [12, 2, 1, 16, 9, 02, 13, 05, 10]octadeca-7,15-diene ('Dechlorane Plus' TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	0.05	n. d.
176.	苯並[a]蒽 / Benz[a]anthracene (CAS No.: 56-55-3)	0.05	n. d.
177.	硝酸鎘 / Cadmium nitrate*** (CAS No.: 10325-94-7)	-	n. d.

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TOP EVER-SUN CO., LTD.

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NO. 77-31, QIONGLIN S. RD., XINZHUANG DIST., NEW TAIPEI CITY, 24263 TAIWAN (R. O. C.)

No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
178.	碳酸鎘 / Cadmium carbonate*** (CAS No.: 513-78-0)	-	n. d.
179.	氫氧化鎘 / Cadmium hydroxide*** (CAS No.: 21041-95-2)	-	n. d.
180.	苯並[a]菲 / Chrysene (CAS No.: 218-01-9)	0.05	n. d.
181.	1,3,4-噁唑烷-2,5-二硫酮·甲醛及4-庚基苯酚支鏈及直鏈反應物, (RP-HP) [含≥0.1% w/w 支鏈及直鏈4-庚基苯酚] / Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear] (註7)	-	n. d.
182.	鄰苯二甲酸二環己酯 / Dicyclobexyl phthalate (DCHP) (CAS No.: 84-61-7)	0.05	n. d.
183.	1,2,4-苯三甲酸酐 / Benzene-1,2,4- tricarboxylic acid 1,2- anhydride (trimellitic anhydride) (CAS No.: 552-30-7)	0.05	n. d.
184.	苯並[G,H,I]芘 / Benzo[ghi]perylene (CAS No.: 191-24-2)	0.05	n. d.
185.	八甲基環四矽氧烷 / Octamethylcyclotetrasiloxane (D4) (CAS No.: 556-67-2)	0.05	n. d.
186.	十甲基環五矽氧烷 / Decamethylcyclopentasiloxane (D5) (CAS No.: 541-02-6)	0.05	n. d.
187.	十二甲基環六矽氧烷 / Dodecamethylcyclohexasiloxane (D6) (CAS No.: 540-97-6)	0.05	n. d.
188.	氧化硼鈉 / Disodium octaborate*** (CAS No.: 12008-41-2)	-	n. d.
189.	乙二胺 / Ethylenediamine (CAS No.: 107-15-3)	0.05	n. d.
190.	鉛 / Lead (Pb) (CAS No.: 7439-92-1) (●)	0.005	n. d.
191.	氯化三聯苯 / Terphenyl hydrogenated (CAS No.: 61788-32-7)	0.05	n. d.
192.	2,2-雙(4-羥基苯基)-4-甲基戊烷 / 2,2-bis(4'-hydroxyphenyl)-4-methylpentane (CAS No.: 6807-17-6)	0.05	n. d.
193.	苯并[k]螢基 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	0.05	n. d.
194.	苯并蒽 / Fluoranthene (CAS No.: 206-44-0)	0.05	n. d.
195.	菲 / Phenanthrene (CAS No.: 85-01-8)	0.05	n. d.
196.	芘 / Pyrene (CAS No.: 129-00-0)	0.05	n. d.
197.	1,7,7-三甲基-3-(苯亞甲基)雙環[2,2,1]庚-2-酮 / 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (CAS No.: 15087-24-8)	0.05	n. d.
198.	2,3,3,3-四氟-2-(七氟丙氧基)丙酸, 鹽類, 及其酯由(涵蓋他們其個別和組合之同分異構物) / 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	0.05	n. d.
199.	2-甲氧基乙基乙酯 / 2-methoxyethyl acetate (CAS No.: 110-49-6)	0.05	n. d.
200.	4-叔丁基苯酚 / 4-tert-butylphenol (CAS No.: 98-54-4)	0.05	n. d.

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No.	物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
201.	三(4-壬基基, 支鏈及直鏈)亞磷酸酯 含≥0.1%的支鏈及直鏈4-壬基酚 / Tris(4-nonylphenyl, branched and linear) phosphite (TMPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	0.05	n. d.
202.	二異己基鄰苯二甲酸酯 / Diisobexyl phthalate (CAS No.: 71850-09-4)	0.05	n. d.
203.	2-苄基-2-二甲氨基基-1-(4-嗎啡基)丁酮 / 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (CAS No.: 119313-12-1)	0.05	n. d.
204.	2-甲基-1-(4-甲硫基基)-2-嗎啡基-1-丙酮 / 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (CAS No.: 71868-10-5)	0.05	n. d.
205.	全氟丁磺酸及其相關鹽類 / Perfluorobutane sulfonic acid (PFBS) and its salts	0.05	n. d.
206.	1-乙烯基咪唑 / 1-vinylimidazole (CAS No.: 1072-63-5)	0.05	n. d.
207.	2-甲基咪唑 / 2-methylimidazole (CAS No.: 693-98-1)	0.05	n. d.
208.	4-羥基苯甲酸丁酯 / Butyl 4-hydroxybenzoate (CAS No.: 94-26-8)	0.05	n. d.
209.	二正丁基雙(乙醯丙酮基)錫 / Dibutylbis(pentane-2,4-dionato-0,0')tin*** (CAS No.: 22673-19-4)	-	n. d.

Remark :

- 高關注物質(SVHC)候選清單 / Candidate List of SVHC (2020/06/25)
<http://echa.europa.eu/web/guest/candidate-list-table>
- 根據Regulation (EC) No 1907/2006 中第7條款第2項之規定, 如果物質符合第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:
 - 成品中所含物質每年超過1公噸。
 - 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).
- Regulation (EC) No 1907/2006中第 33 條款要求成品供應商, 其成品所含物質符合第57條款之標準並依照第59(1)條款確定其濃度大於 0.1wt%, 應提供成品接受者充分可取得資訊, 以確保成品之安全使用(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.

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4. 如果樣品中高關注物質的濃度超過0.1% (w/w)和/或歐盟(EC)No. 1272/2008 CLP法規及其修訂中設定的特殊濃度限值,建議客戶根據歐盟REACH法規No. 1907/2006對有關高關注物質準備安全資料表(SDS)以符合供應鏈通信的義務,如:
- (I) 根據(EC)No. 1272/2008 CLP法規被列為有害物質。
 - (II) 根據(EC)No. 1272/2008 CLP法規被列為有害混合物,而當中物質的濃度大於或等於(EC)No. 1272/2008 CLP法規列出的濃度限值;或
 - (III) 根據(EC)No. 1272/2008 CLP法規並未列為有害混合物,但包含:
 - (a) 對人類健康或環境有害的物質,而在固體或液體混合物(即非氣體混合物)中其濃度 $\geq 1\%$ (w/w)或在氣體混合物中占體積 $\geq 0.2\%$,或
 - (b) PBT或vPvB物質,在固體或液體混合物(即非氣體混合物)中個別濃度 $\geq 0.1\%$ (w/w),或
 - (c) 授權審議的高關注物質候選清單上的物質(除上述以外的原因)在個別非氣體混合物中的濃度 $\geq 0.1\%$ (w/w),或
 - (d) 設有歐洲範圍內工作場所接觸限值的物質。
- If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:
- (I) a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008,
 - (II) mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
 - (III) a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits
5. 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.

備註(Note):

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. RL = Reporting Limit / 報告極限值
3. n. d. = not detected = below Reporting Limit / 未檢出
4. " - " = Not Regulated / 無規格值
5. (*): 重鉻酸鈉二水合物(CAS No.: 7789-12-0)含量 = 重鉻酸鈉含量 $\times 1.1374$
(conc. of Sodium dichromate dihydrate = conc. of sodium dichromate $\times 1.1374$)

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NO. 77-31, QIONGLIN S. RD., XINZHUANG DIST., NEW TAIPEI CITY, 24263 TAIWAN (R. O. C.)

- 6. (**): 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.
- 7. F 參數換算表/F Parameter Conversion Table: http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
- 8. 分類/Classification: http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
- 9. (*1): 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.
- 10. (*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為代表(歐洲化學總署回信編號 Ref no.: INC 000000032519) / Tetraboron disodium heptoxide, hydrate; Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
- 11. (**): 該物質是由單辛基錫、二辛基錫、三丁基錫、二丁基錫、全氟辛酸或各別元素(例如: 砷、鉛、六價鉻、硼、鈷、鎘、鎘)之測試結果計算得知。 / The substance was calculated by the test results of Monoctyltin, Dioctyl Tin, Tributyl Tin, Dibutyl Tin, PFOA or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium, Cadmium respectively).

測試結果如下(The test result is given as):

物質名稱 (Substance Name)	RL (%)	濃度 (Concentration) (%)
三丁基錫 / Tributyl Tin (TBT)	0.05	n. d.
砷 / Arsenic (As) (*2)	0.005	n. d.
鉛 / Lead (Pb)	0.005	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)	0.005	n. d.
硼 / Boron (B) (*2)	0.005	n. d.
鈷 / Cobalt (Co)	0.005	n. d.
二丁基錫 / Dibutyl Tin (DBT)	0.05	n. d.
鎘 / Barium (Ba)	0.005	0.0227
二辛基錫 / Dioctyl Tin (DOT)	0.0231	n. d.
單辛基錫 / Monoctyltin (MOT)	0.0140	n. d.
鎘 / Cadmium (Cd)	0.005	n. d.

- 12. (*1): 此砷鉛化合物之濃度是取砷及鉛兩者各別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.)
- 13. (*2): 被萃取出的溶出硼/砷是以感應耦合電漿發射光譜儀檢測之。 / The extracted soluble Boron / Arsenic are detected by ICP-OES.

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測試報告
Test Report

號碼(No.): CC/2019/00254B 日期(Date): 2020/07/17 頁數(Page): 15 of 17

鼎成實業股份有限公司
TOP EVER-SUN CO., LTD.
新北市新莊區瓊林南路77之31號
NO. 77-31, QIONGLIN S. RD., XINZHUANG DIST., NEW TAIPEI CITY, 24263 TAIWAN (R. O. C.)

14. (註3): 由於TGIC本身含有β-TGIC。依照ECHA技術文件β-TGIC與TGIC的為1:10比例。因此β-TGIC將以1/10的TGIC計算濃度。
/ TGIC is a mixture and also contains β-TGIC. According to the ECHA's technical dossier the ratio of β-TGIC to TGIC is around 1 to 10. Therefore β-TGIC is issued based on the above-mentioned ratio.
15. (註4): 只有在矽與鉛定性結果為陽性時，再以銅之濃度換算之。
/ Only if both qualitative results of lead and silicon are positive, the test result of the compound will be calculated based on the concentration of barium.
16. (註5): 此化合物之濃度是取六價鉻及鉛兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing Cr(VI) and lead, lead and Cr(VI) are tested and respectively used for the calculation of the independent concentration of the compound containing Cr(VI) and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
17. (註7): RP-HP無法直接測得且無法自特定元素計算含量，RP-HP之所以被定義於SVHC是因為4-HPbI，因此分析4-HPbI取代RP-HP。
/ RP-HP can't be identified directly and test result can't be calculated based on specific element(s) or compound. RP-HP is identified as SVHC because of 4-HPbI, therefore 4-HPbI is analysed instead of RP-HP.
18. (●): 因為鉛有一很廣泛應用，不太可能判定是否檢驗出的鉛是來自鉛離子，鉛元素或鉛化合物，因此用檢驗出的總鉛來代表鉛。
/ Since lead has a wide application, it is unlikely to determine if the detected lead comes from the lead ion, lead element or/ and lead compounds. Therefore the detected total lead is used on behalf of lead.
19. 符合性結果之判定係以測試結果與限值做比較。
/ The statement of compliance conformity is based on comparison of testing results and limits.

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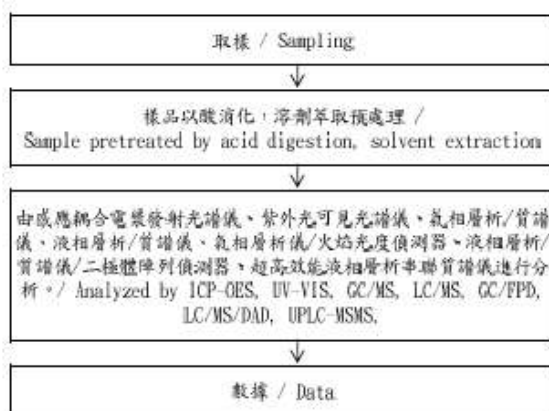


測試報告
Test Report

號碼(No.): CC/2019/00254B 日期(Date): 2020/07/17 頁數(Page): 16 of 17

鼎成實業股份有限公司
TOP EVER-SUN CO., LTD.
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SVBC 分析流程圖 / Analytical flow chart of SVBC



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號碼(No.): CC/2019/90254B 日期(Date): 2020/07/17 頁數(Page): 17 of 17

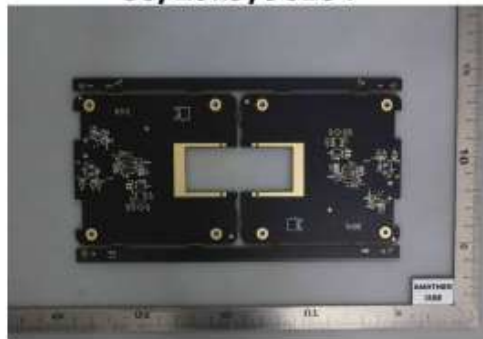
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TOP EVER-SUN CO., LTD.
新北市新莊區瓊林南路77之31號
NO. 77-31, QIONGLIN S. RD., XINZHUANG DIST., NEW TAIPEI CITY, 24263 TAIWAN (R. O. C.)

* 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.)

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** 報告結尾(End of Report) **

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Connector: J1



Test Report



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Report No. A2190097887101001

Applicant DANYANG YIXIN PLATING CO.,LTD.

Address CHANGLIU ELECTROPLATING INDUSTRY PARK, DANBEI TOWN, DANYANG, ZHENJIANG, CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name nickel plating
 Sample Received Date Apr. 28, 2019
 Testing Period Apr. 28, 2019 to May 6, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Beryllium(Be), Antimony(Sb) Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).



Tested by Wangdong
 Approved by Chen kaimin
 Chen kaimin
 Lab Manager
 Centre Testing International (Shanghai) Co., Ltd.



Reviewed by Taoying
 Date May 6, 2019

No. R293032058

No. 1996, Xinjinqiao Road, Pudong New District, Shanghai, China

Test Report

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	Refer to IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	Refer to IEC 62321-5:2013	ICP-OES
Mercury(Hg)	Refer to IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	UV-Vis
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Beryllium(Be)	Refer to US EPA 3050B:1996 & US EPA 6010D:2014	ICP-OES
Antimony(Sb)	Refer to US EPA 3050B:1996 & US EPA 6010D:2014	ICP-OES
Fluorine (F)	Refer to EN 14582:2016*	IC
Chlorine (Cl)	Refer to EN 14582:2016*	IC
Bromine (Br)	Refer to EN 14582:2016*	IC
Iodine (I)	Refer to EN 14582:2016*	IC
Perfluorooctane Sulfonates (PFOS)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
Perfluorooctanoic Acid (PFOA)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS

— 测 试 报 告 —

Test Report

Report No. A2190097887101001

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Test Result(s)

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D. *	0.10 µg/cm ² (LOQ)

Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Test Report

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)		
Beryllium(Be)	N.D.	10 mg/kg
Antimony(Sb)	N.D.	10 mg/kg
Tested Item(s)		
Fluorine(F)	N.D.	1 µg/cm ²
Chlorine(Cl)	N.D.	1 µg/cm ²
Bromine(Br)	N.D.	1 µg/cm ²
Iodine(I)	N.D.	1 µg/cm ²
Tested Item(s)		
Perfluorooctane Sulfonates(PFOS)	N.D.	0.5 µg/m ²
Tested Item(s)		
Perfluorooctanoic Acid(PFOA)	N.D.	0.5 µg/m ²

Sample/Part Description Silvery plating

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium, Antimony.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm²

-*The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm². The coating is considered a non-Cr(VI) based coating.

-*- The specified area sample is extracted by an ultrasonic bath in ultra-pure water, and then the extracted liquid is analyzed by IC.

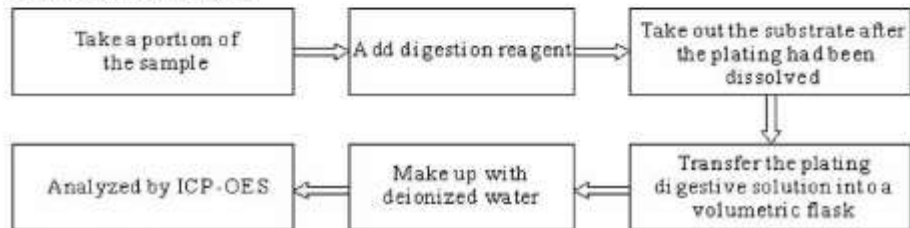
Test Report

Report No. A2190097887101001

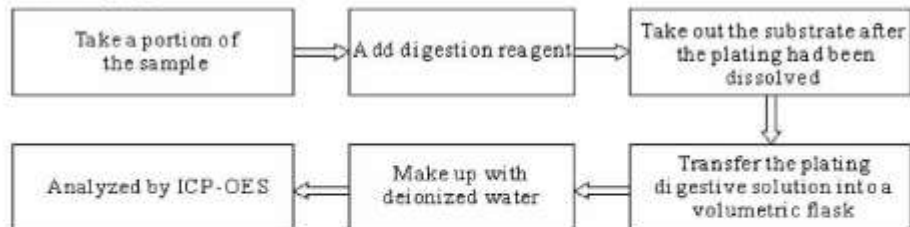
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Test Process

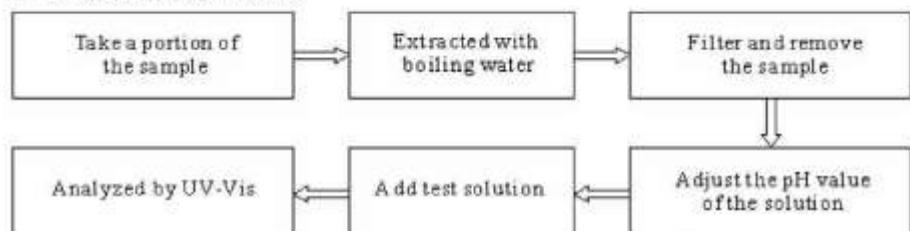
1. Lead(Pb), Cadmium(Cd)



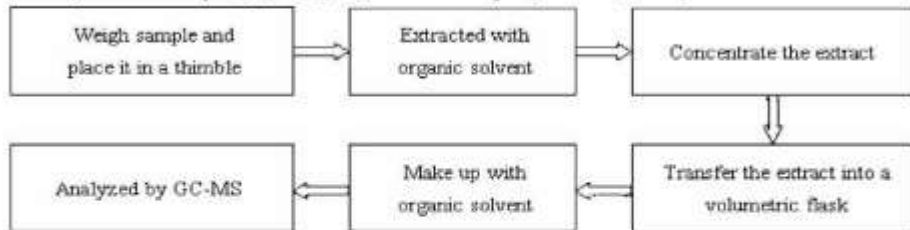
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)

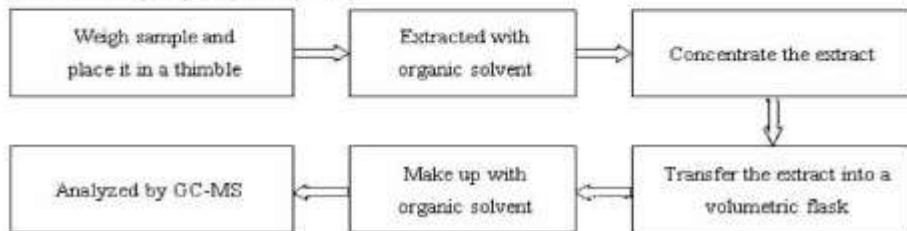


Test Report

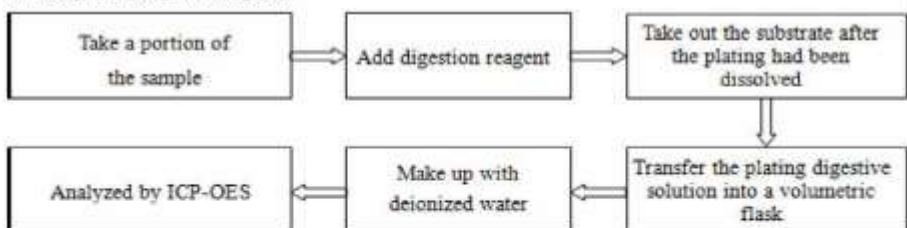
Report No. A2190097887101001

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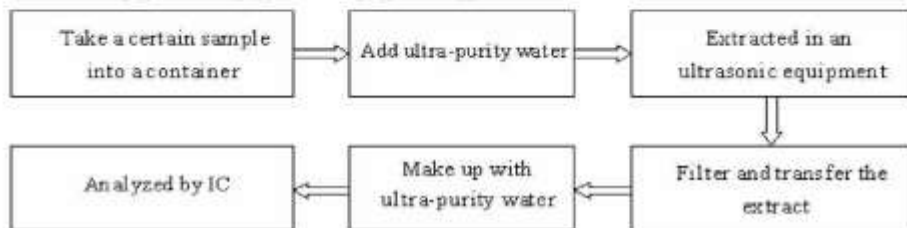
5. Phthalates (DBP, BBP, DEHP, DIBP)



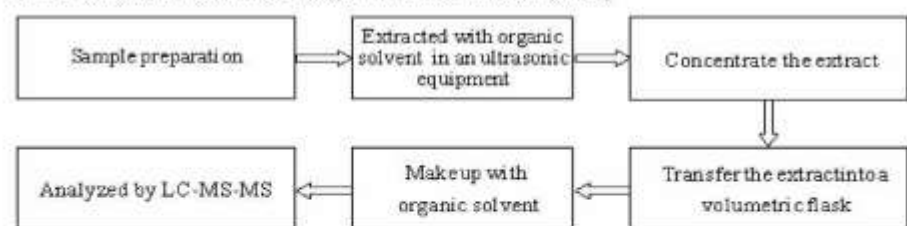
6. Beryllium(Be), Antimony(Sb)



7. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



8. Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA)

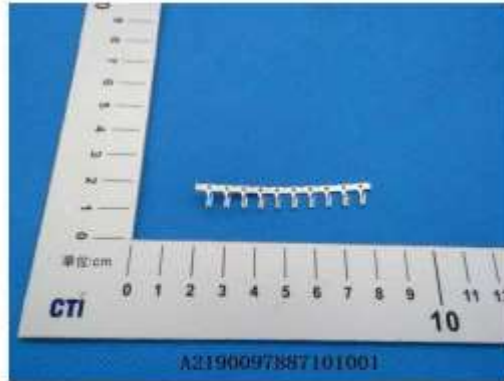


Test Report

Report No. A2190097887101001

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Photo(s) of the sample(s)



*** End of report ***

Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
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Test Report

No. CANEC1907229901

Date: 06 May 2019

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FUJIAN ZIJIN COPPER CO.,LTD

NAN GANG DEVELOPMENT PARK SHANGHANG FUJIAN

The following sample(s) was/were submitted and identified on behalf of the clients as : BRONZE: C5191

SGS Job No. : 19898834 - XM

Date of Sample Received : 25 Apr 2019

Testing Period : 25 Apr 2019 - 06 May 2019

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s)

Test Results : Please refer to next page(s)

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zm guan
Approved Signatory



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Test Report

No. CANEC1907229901

Date: 06 May 2019

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-072299.001	Copper colored metal

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	Q07
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	14
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))*	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit	MDL	QOT
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

- (2) ** a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination
 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Halogen

Test Method : With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit	MDL	QOT
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Elementary Analysis

Test Method : SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.



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Test Item(s)	Unit	MDL	001
Beryllium (Be)	mg/kg	5	ND
Antimony (Sb)	mg/kg	10	ND



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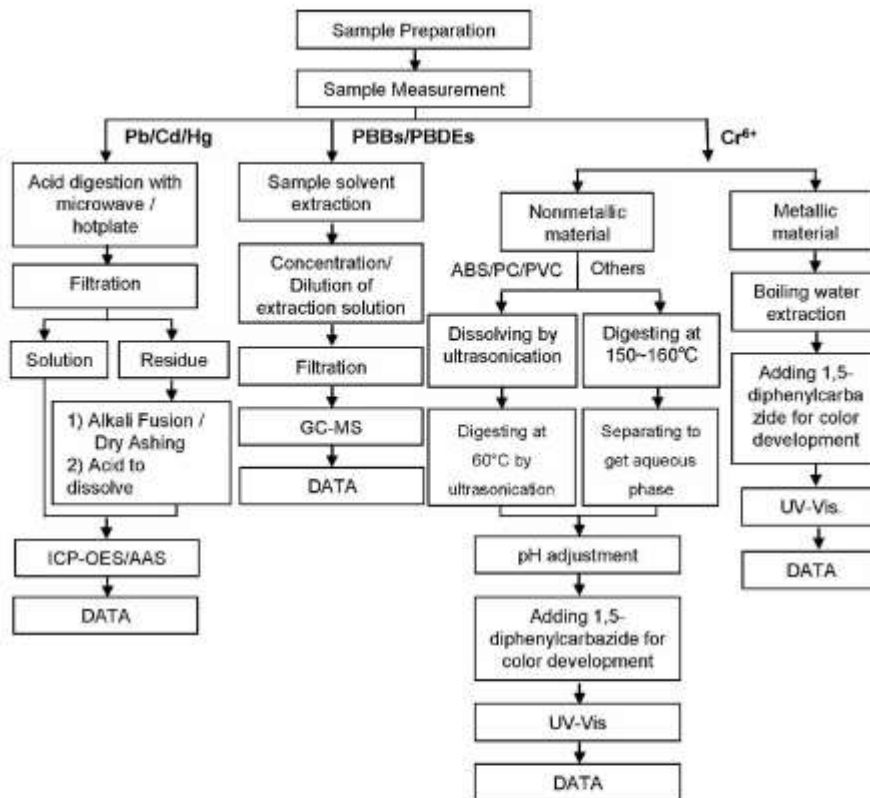
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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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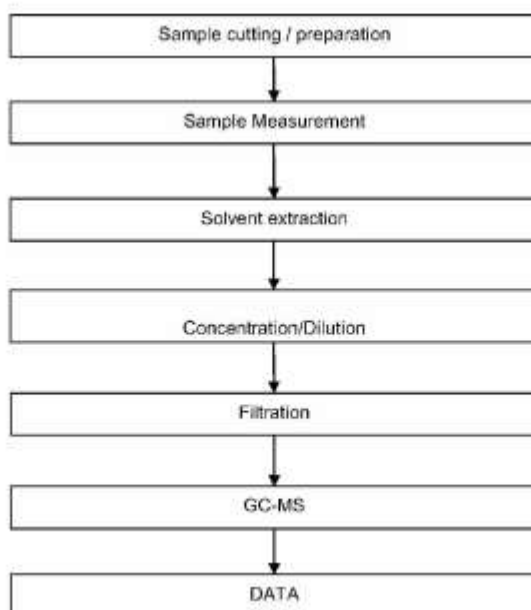
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Phthalates Testing Flow Chart



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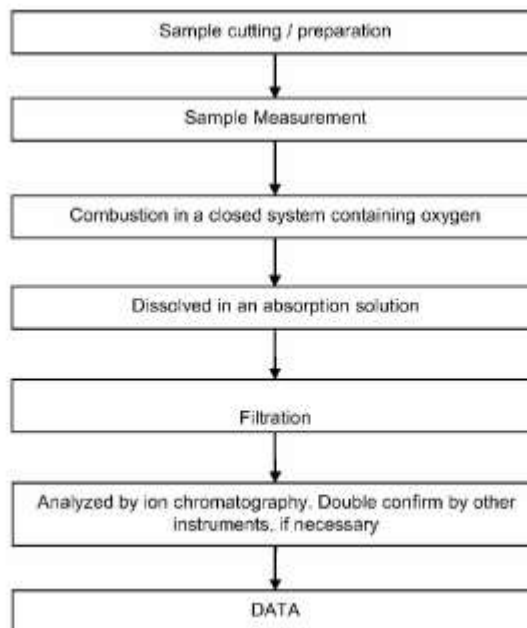
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Halogen Testing Flow Chart



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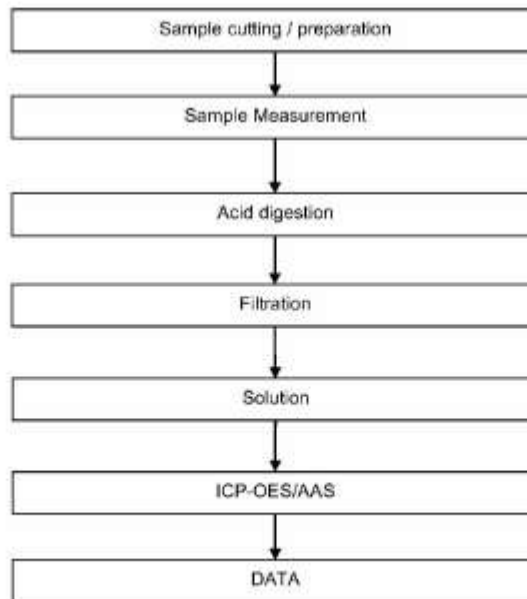
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Elementary Testing Flow Chart



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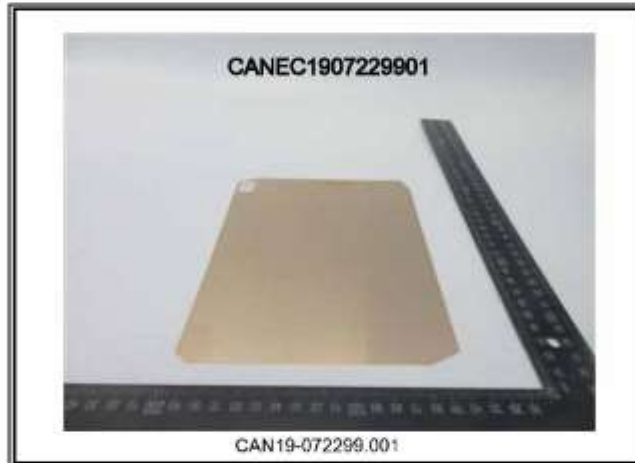
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Sample photo:



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測試報告
Test Report

號碼(No.): CE/2019/40372 日期(Date): 2019/04/12 頁數(Page): 1 of 13

華立企業股份有限公司
WAH LEE INDUSTRIAL CORP.
台北市復興北路369號11樓
11F, NO. 369, FU-HSING N. ROAD, TAIPEI, 105 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/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : SUMITOMO CHEMICAL CO., LTD.
樣品名稱(Sample Description) : SUMIKASUPER LCP RESIN
樣品型號(Style/Item No.) : SUMIKASUPER E8808LHF B Z
收件日期(Sample Receiving Date) : 2019/04/02
測試期間(Testing Period) : 2019/04/02 to 2019/04/12

測試需求(Test Requested):

- (1) 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).)
- (2) 其他測試項目請見下一頁。(Please refer to next pages for the other item(s).)

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


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

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測試報告 Test Report

號碼(No.): CE/2019/40372

日期(Date): 2019/04/12

頁數(Page): 2 of 13

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11F, NO. 369, FU-HSING N. ROAD, TAIPEI, 105 TAIWAN, R. O. C.

測試結果(Test Results)

測試部位(PART NAME)No.1 : 黑色塑膠粒 (BLACK PLASTIC PELLETS)

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)	ng/kg	參考IEC 62321-5 (2013)·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)	ng/kg		2	2.75
汞 / Mercury (Hg)	ng/kg	參考IEC 62321-4:2013+ AMD1:2017·以 感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321-4:2013+ AMD1:2017 and performed by ICP-AES.	2	n. d.
六價鉻 / Hexavalent Chromium Cr(VI) (◆)	ng/kg	參考IEC 62321-7-2 (2017)·以UV-VIS 檢測；參考IEC 62321-5 (2013)·以 ICP-AES檢測。 / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-AES.	8	n. d.
多溴聯苯總和 / Sum of PBBs	ng/kg	參考IEC 62321-6 (2015)·以氣相層析 /質譜儀檢測。 / With reference to IEC 62321-6 (2015) 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.	

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測試報告

Test Report

號碼(No.): CE/2019/40372

日期(Date): 2019/04/12

頁數(Page): 3 of 13

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 台北市復興北路369號11樓
 11F, NO. 369, FU-HSING N. ROAD, TAIPEI, 105 TAIWAN, R. O. C.

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
多溴聯苯醚總和 / Sum of PBDEs	ng/kg	參考IEC 62321-6 (2015)・以氣相層析 /質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	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.	
鄰苯二甲酸丁基甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	ng/kg	參考IEC 62321-8 (2017)・以氣相層析 儀/質譜儀檢測。 / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	ng/kg		50	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	ng/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)	ng/kg		50	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 28761- 40-0; 68515-49-1)	ng/kg		50	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	ng/kg		50	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117-84-0)	ng/kg		50	n. d.
鄰苯二甲酸二戊酯 / Di-n-pentyl phthalate (CAS No.: 131-18-0)	ng/kg		50	n. d.

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測試報告

Test Report

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華立企業股份有限公司

WAH LEE INDUSTRIAL CORP.

台北市復興北路369號11樓

11F, NO. 369, FU-HSING N. ROAD, TAIPEI, 105 TAIWAN, R. O. C.

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
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 (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	ng/kg	參考IEC 62321 (2008), 以氣相層析/質譜儀檢測。 / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.
鹵素 / Halogen				
鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 14782-94-8)	ng/kg	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.	50	1650
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	ng/kg		50	n. d.
鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	ng/kg		50	n. d.
鹵素(碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	ng/kg		50	n. d.
全氟辛酸磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	ng/kg	參考US EPA 3550C (2007), 以液相層析/質譜儀檢測。 / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	ng/kg		10	n. d.
銻 / Antimony (Sb)	ng/kg	參考US EPA 3052 (1996), 以感應耦合電漿原子發射光譜儀檢測。 / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
三氧化二銻 / Antimony trioxide (Sb ₂ O ₃) (CAS No.: 1309-64-4)	ng/kg	由銻結果計算得之。 / Calculated from the result of Antimony.	2 (▲)	n. d.

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備註(Note):

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. "-" = Not Regulated (無規格值)
5. (◆):
若鉻含量小於六價鉻之方法偵測極限值，則六價鉻為n. d.，不須再測試六價鉻。
The result of Cr(VI) is "n. d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required.
若鉻含量未小於六價鉻之方法偵測極限值，需進行六價鉻測試。
If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.
6. (▲): MDL是針對元素/測試化合物之評估。 / The MDL was evaluated for element / tested substance.

換算公式 (Conversion Formula): $AX = A \times F$

AX	A	F
三氧化二銻 / Antimony trioxide (Sb ₂ O ₃)	銻 / Antimony	1.1971

PFOS參考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm)，在半成品、成品或零部件中不得超過0.1%(1000ppm)，在紡織品或塗層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².)

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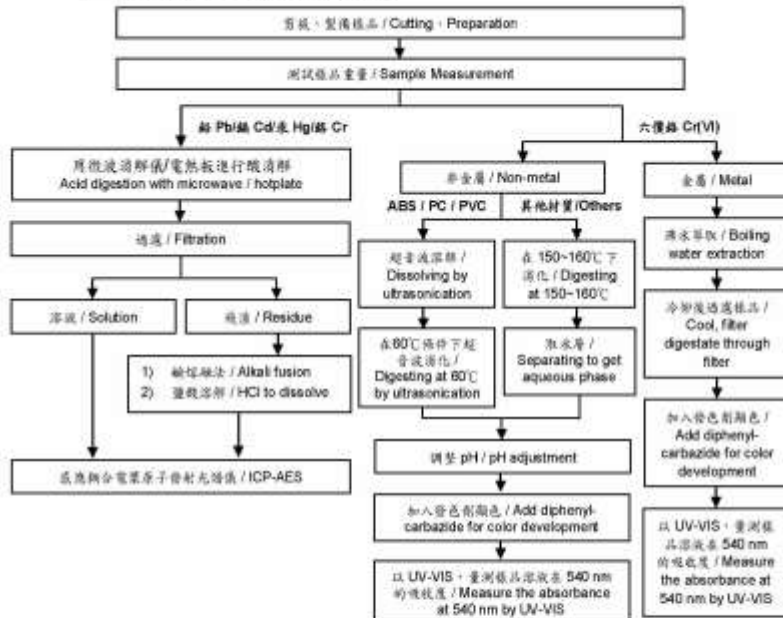
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重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下所述流程圖之條件，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^{VI} test method excluded)
■ 測試人員: 陳惠德 / Technician: Rita Chen
■ 測試負責人: 張世明 / Supervisor: Troy Chang



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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.

- 測試人員：陳思瑋 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang

元素以 ICP-AES 分析的消化流程圖
(Flow Chart of digestion for the elements analysis performed by ICP-AES)



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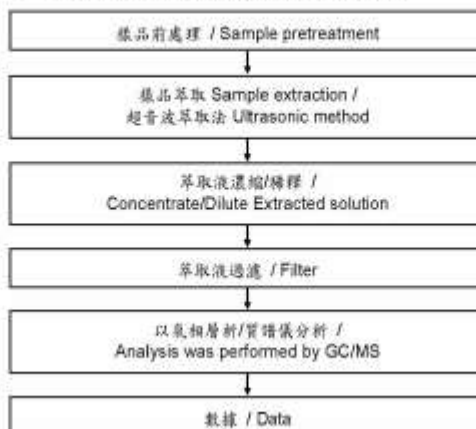
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員: 涂雅琴 / Technician: Yaling Tu
- 測試負責人: 張啟騰 / Supervisor: Troy Chang



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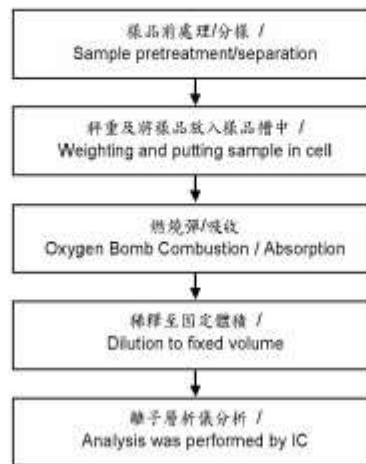
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元素分析流程圖 / Analytical flow chart - Halogen

- 測試人員: 陳思臻 / Technician: Rita Chen
- 測試負責人: 張啟興 / Supervisor: Troy Chang



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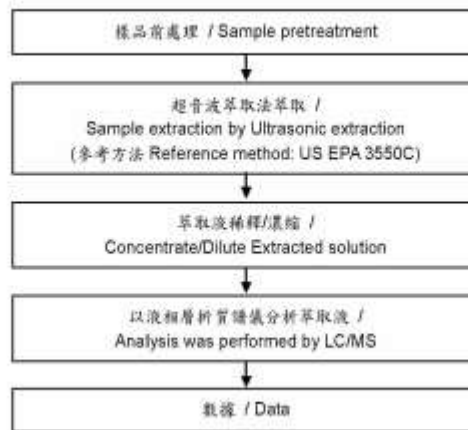
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員: 涂雅琴 / Technician: Yaling Tu
- 測試負責人: 張啟興 / Supervisor: Troy Chang



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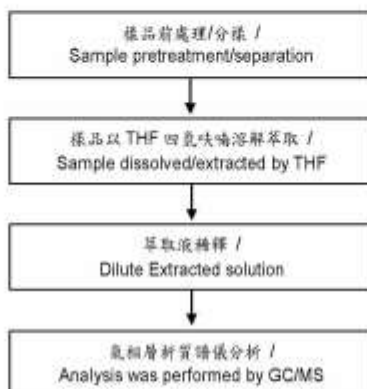
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員: 涂雅琴 / Technician: Yaling Tu
- 測試負責人: 張啟興 / Supervisor: Troy Chang

【測試方法/Test method: IEC 62321-8】



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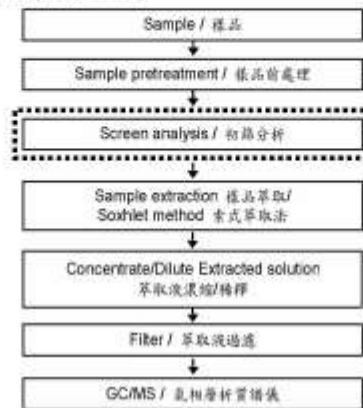
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員: 涂敬琴 / Technician: Yaling Tu
- 測試負責人: 張啟輝 / Supervisor: 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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11F, NO. 369, FU-HSING N. ROAD, TAIPEI, 105 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.)

CE/2019/40372



✂ 報告結尾 (End of Report) ✂

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SGS Taiwan Ltd., 台灣商檢科技股份有限公司

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Declaration For U1 :



2022-Feb-28
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**DECLARATION OF COMPLIANCE
- RoHS Declaration -**

NXP Semiconductors Netherlands B.V. declares that its certified RoHS compliant semiconductor products (including homogeneous sub-components –pins, casing, and internal parts) are designed to be:

- RoHS compliant meeting the requirements defined under Directive 2011/65/EU of the European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) – recast and its amendments¹:

RoHS Restricted Substance	Allowable Limit
Cadmium and its compounds	100 ppm (0.01 weight %)
Mercury and its compounds	1000 ppm (0.1 weight %)
Hexavalent chromium and its compounds	1000 ppm (0.1 weight %)
Lead and its compounds	1000 ppm (0.1 weight %)
Polybrominated biphenyls (PBB)	1000 ppm (0.1 weight %)
Polybrominated diphenyl ethers (PBDE)*	1000 ppm (0.1 weight %)
Bis(2-ethylhexyl) phthalate (DEHP)**	1000 ppm (0.1 weight %)
Butyl benzyl phthalate (BBP)**	1000 ppm (0.1 weight %)
Dibutyl phthalate (DBP)**	1000 ppm (0.1 weight %)
Diisobutyl phthalate (DIBP)**	1000 ppm (0.1 weight %)

* This includes also DecaBromoDiphenylEther (Deca-BDE).

** In accordance with amendment under Commission Delegated Directive (EU) 2015/863 of 31 March 2015.

NXP RoHS compliant semiconductor devices contain no more than 0.1% lead (Pb) by weight per homogeneous material, unless used in an application exempted by RoHS. NXP may declare the use of the following RoHS exemptions for RoHS compliant semiconductor devices:

RoHS Exemption	RoHS Exemption Description***
6(c)	Copper alloy containing up to 4 % lead by weight
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)
7(c)-1	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages
15(a)	Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies: — a semiconductor technology node of 90 nm or larger; — a single die of 300 mm ² or larger in any semiconductor technology node; — stacked die packages with die of 300 mm ² or larger, or silicon interposers of 300 mm ² or larger.

*** Applicable within the scope of categories and expiry dates as given in Annex III of Directive 2011/65/EU

Any semiconductor device that NXP has certified as RoHS compliant declaring Exemption 15 or 15(a) will contain lead (Pb) in solders. These products are RoHS compliant when used in OEM applications covered by these RoHS exemptions permitting lead in solders for applicable categories; expiration dates as listed in Annex III of Directive 2011/65/EU. Applicability of Exemption 15 or 15(a) is dependent on OEM application and final use.

¹ Including amendment under Commission Delegated Directive (EU) 2019/172 of 16 November 2018, regarding exemption 15 for lead in solders.



To facilitate customer requirements and to verify NXP semiconductor product compliance, NXP material content information is available [here](#) or by contacting the NXP ECO-Products team at eco-products@nxp.com.

Certification of RoHS compliance of NXP products is reliant upon NXP supplier material content data certifications of each supplied homogenous material in a product(s). The signature below verifies that statements above, including but not limited to material composition data are valid and accurate to the best of our knowledge for NXP products in original sale condition.


28 February 2022

Edwin Bertotti
Director, ECO-Products
NXP Semiconductors



Declaration For: U2

 life.augmented	<h2>Materials Declaration Form</h2>
---	-------------------------------------

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D *: Required Field

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2017-02-27
Contact Name *	Refer to "Supplier Comment" section	Contact Title	Refer to "Supplier Comment" section
Contact Phone *	Refer to "Supplier Comment" section	Contact Email *	Refer to "Supplier Comment" section
Authorized Representative *	Laurent TOBI	Representative Title	MMS MD CHAMPION
Representative Phone *	33 442 685 795	Representative Email *	laurent.tobi@st.com
Supplier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/online_tech_support.html		

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Legal Statement	
Supplier Acceptance *	Legal Declaration *
true	Standard

Legal Statement

Supplier certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
M24C02-WMN6TP	PH07*24021TA	A	3068	2017-02-27
Amount	UoM	Unit type	ST ECOPACK Grade	
80.00	mg	Each	ECOPACK® 2	

Manufacturing information			
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	 <i>life.augmented</i>
1	260	3	
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	
NAC	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy	

Package Designator	Size	Nbr of instances	Shape
SON	NAC	8	L bend
Comment	SO 08 .35 JEDEC		

QueryList : RoHS Directive 2011/65/EU-July 2011 - Annex II amended by Directive 2015/863-April 2015	
Query	Response
Product(s) meets EU RoHS requirement without any exemptions	true
Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply)	false
Product(s) meets EU RoHS requirements by application of the selected exemption(s)	false
Product(s) does not meet EU RoHS requirements and is not under exemptions	false
Product(s) is obsolete, no information is available	false
Product(s) is unknown, no information is available	false
Exemption id.	Description

QueryList : REACH-12th January 2017				
Query				Response
The product does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product

Test report for solder



To: Extend

Certificate of Compliance

We hereby declare and guarantee that the products which are specified below, contain no substances above threshold listed in 219 substances of very high concern (SVHC) which are defined REACH Annex XIV and substance listed in REACH Annex XVII of Regulation No.1907/2006.

Products:	Solder paste
Number:	S3X58-M406

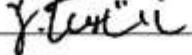
The undersigned is an authorized representative of our company.

Company Name: KOKI COMPANY LIMITED

Company Address: 25-39 Miyako Oaza Namegawa-machi Hiki-gun Saitama Japan

Representative: Yoshiteru Tajiri

Title: Manager

Signature: 

Date: 2021/7/29

KOKI COMPANY LIMITED

32-1, Senju Asahi-cho, Adachi-ku, Tokyo 120-0026, Japan Tel : +81 3 5244-1521 Fax : +81 3 5244-1525 www.ko-ki.co.jp



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Date: 07 Apr 2021

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KOKI COMPANY LIMITED

32-1, Senju Asahi-cho Adachi-ku, Tokyo 120-0026

The following sample(s) was/were submitted and identified on behalf of the clients as : Solder paste

SGS Job No. : SUIN2103002175PC - SUZ
 Part No. (P/N) : S3X58-M406
 Main Substance : Mixture of organic acid a small amount, rosin, wax, denatured alcohol and solder powder.
 Supplier : KOKI COMPANY LIMITED
 Date of Sample Received : 31 Mar 2021
 Testing Period : 31 Mar 2021 - 07 Apr 2021
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Signed for and on behalf of
 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Denki Zheng
 Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-057797.029	Grey paste

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	Q29
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	249
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit	MDL	Q29
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www?fp=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments including industrial monitoring and control instruments, from 22 July 2021.

Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.

Test Item(s)	CAS NO.	Unit	MDL	Q29
Perfluorooctanesulfonate (PFOS) ^	1763-23-1	mg/kg	10	ND
Perfluorooctanoic Acid (PFOA) and its salts+		mg/kg	10	ND

Notes :

- (1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
- (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₂ (CAS No.: 56773-42-3), PFOS-DDA (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7)



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Test Report

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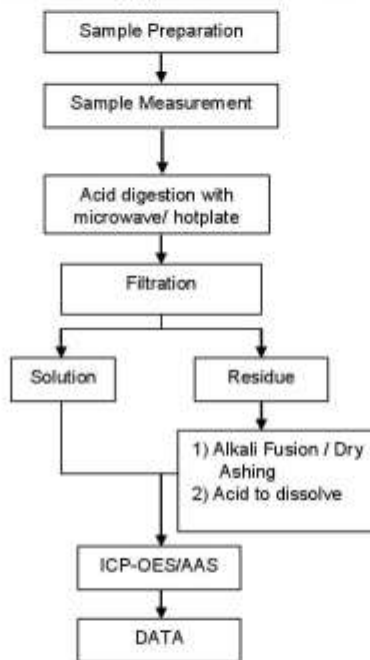
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Elements (IEC62321) Testing Flow Chart

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



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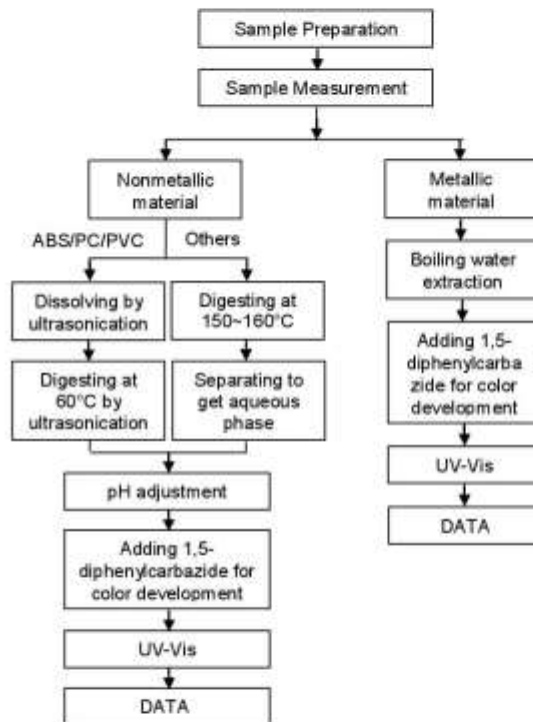
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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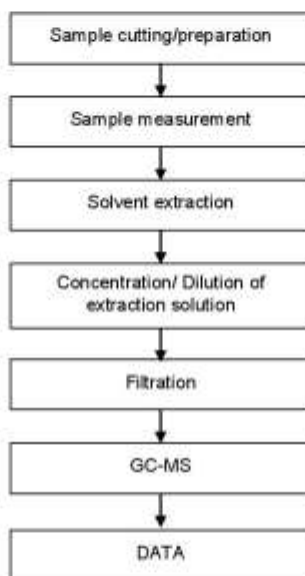
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PBBs/PBDEs Testing Flow Chart



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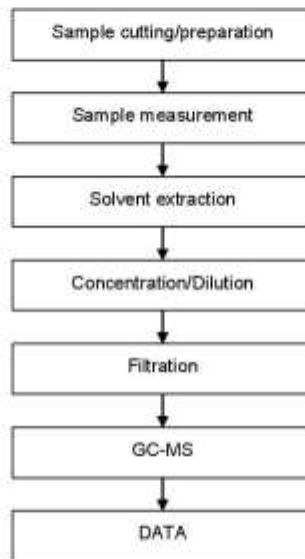
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Phthalates Testing Flow Chart



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Test Report

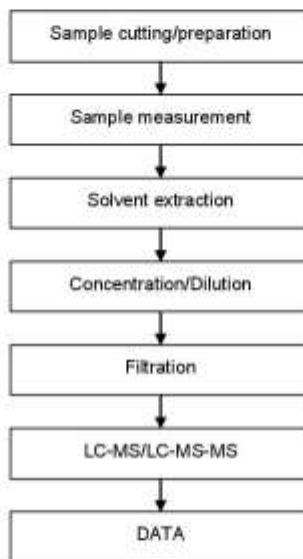
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ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



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Sample photo:



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Member of the SGS Group (SGS SA)

22 July 2020

First Creation Industry co.

Senju Metal Industry Co., Ltd.
Quality Assurance Div. General Manager
Hoshiro Takahashi



REPLY OF INVESTIGATION RESULT

【 Investigation Substances 】

Candidate List of Substances of Very High Concern for authorization
under EU REACH Regulation, (209 substances, Edited on 25 June 2020)
REACH Regulation details refer to <https://echa.europa.eu/de/candidate-list-table>

【 Product 】

ECO SOLDER GAO-ST F3 M35
ECO SOLDER RMA08 F3 M35

【 Investigation Result 】

The subject substances are not intentionally-added to the above products.
Solder alloy contains Cadmium and Lead as impurity, which is controlled as follows:
Cd:< 20ppm, Pb:<500ppm

At present we are not reported that those substances are contained in the materials used for
above products which are shipped to us from our suppliers.

Best Regards,

22 July 2020

First Creation Industry co.Senju Metal Industry Co., Ltd.
Quality Assurance Div. General Manager
Hoshiro Takahashi

REPLY OF INVESTIGATION RESULT

【 Investigation Substances 】

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【 Product 】

1. SPARKLE RMA98 SUPER P3 Sn60 Pb40

【 Investigation Result 】

Product	Substances	CAS RN	Content(%)	Content Part	Content Purpose
1	Cadmium	7440-43-9	<0.002	Resin cored solder	Impurity
	Lead	7439-92-1	38.8	Resin cored solder	Solder composition

Best Regards,