

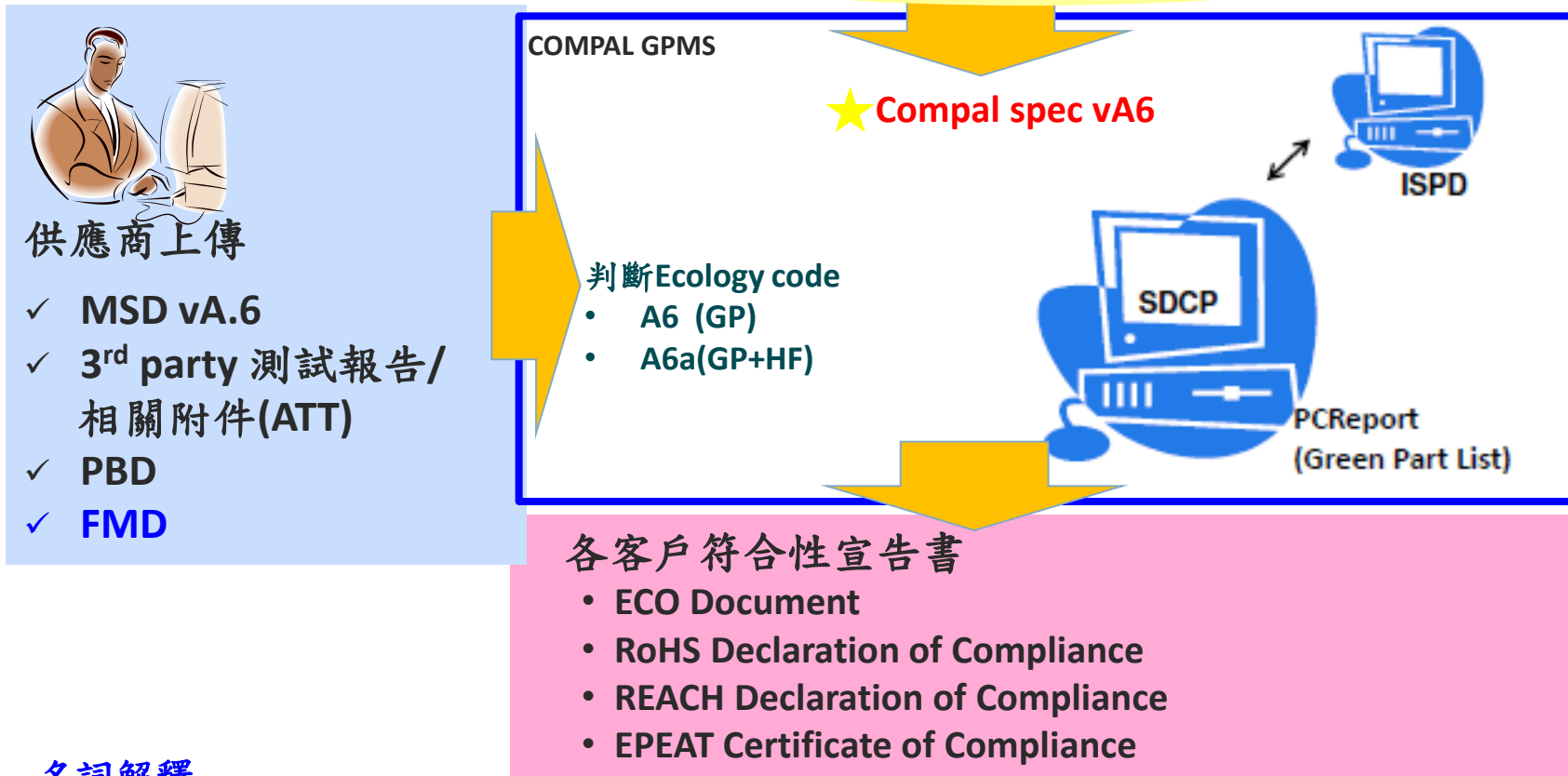


新版仁寶環境管制物質管理標準說明

Revision of COMPAL Management Standard for Environment-Related Substances Training

Cynthia Lee/ Dan Wei

Product Safety & Environmental Design Dept.

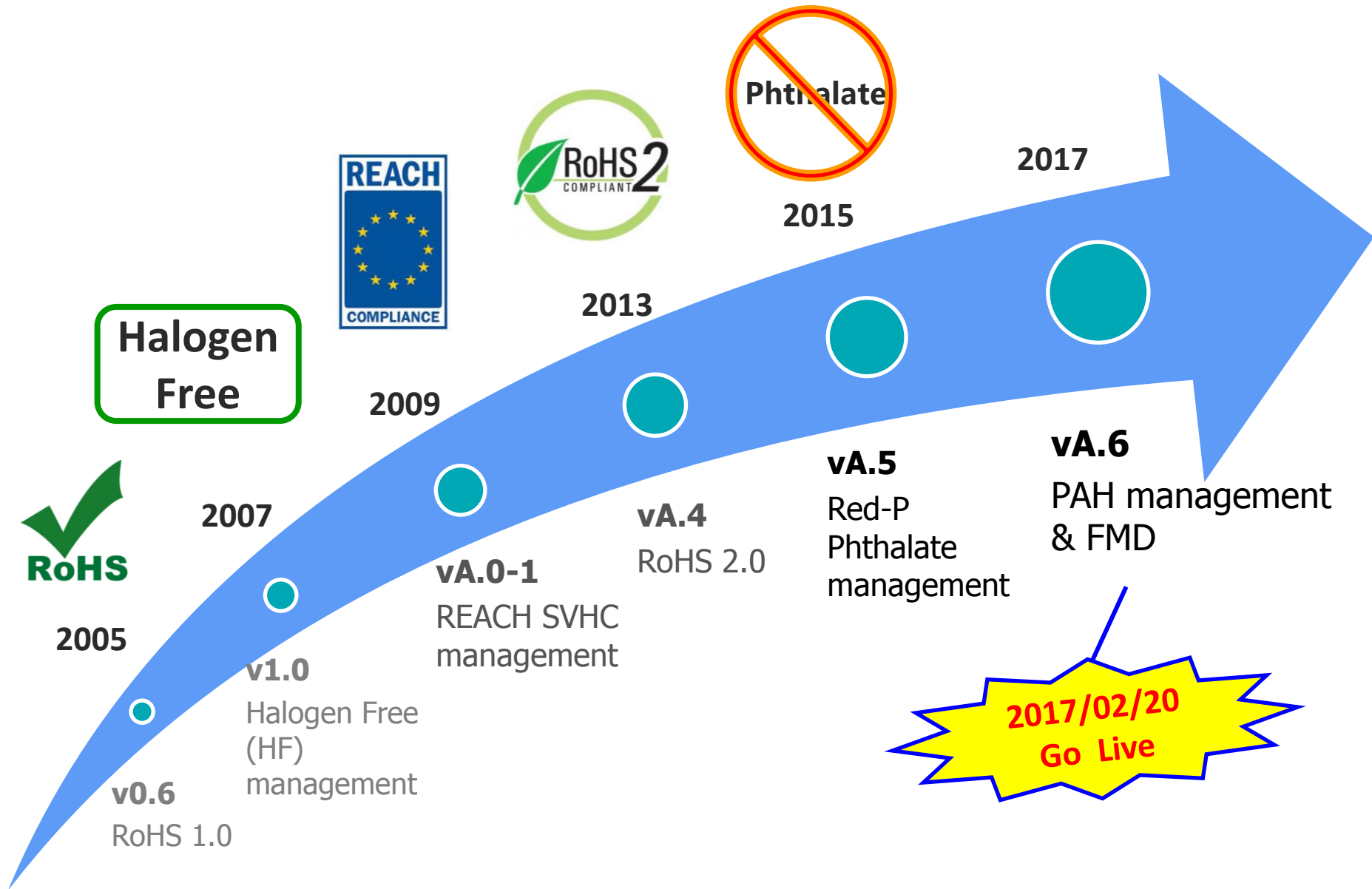


供應商上傳

- ✓ MSD vA.6
- ✓ 3rd party 測試報告/
相關附件(ATT)
- ✓ PBD
- ✓ FMD

名詞解釋


- MSD (Material substance declaration): 材料物質宣告書
- PBD (Pb-free Component Engineering Spec Supplier Declaration): 無鉛宣告書
- FMD (Full Material Disclosure): 全物質展開 (有利於零件承認後，新法規的持續符合性確認)





仁寶零件及原料環境相關管制物質管理規定vA.6
COMPAL Green Spec vA.6 Introduction
(Document No.: 903154)

Suppliers can download **Compal Environmental management Standard vA.6** from Compal SDCP (Supplier Design Collaboration Portal) web.
URL: <https://sdcp.compal.com>



COMPAL SDCP System

Supplier Design Collaboration Portal System

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MSD / ATT

1. [Compal Management Standard for Environment Standard A.6 \(EN\) \(2017/02/20 effective\)](#)
2. [仁寶零件及原料環境相關管制物質管理規定A6 \(CH\) \(2017/02/20生效\)](#)
3. [Compal MSD \(綠色零件承認宣告書\) A.6 \(2017/02/20 effective\)](#)
4. [Compal Green Spec & MSD Training Material 2017](#)
5. [MSD & ATT Upload Introduction 2017](#)
6. [Basic function introduction](#)
7. [MSD Uploaded error message 2017](#)

1. Purpose

2. Scope

 3. Glossary of Terms

4. Basic Policy for Parts Approval Requirements

 5. Product Content Restrictions

5.1 Banned or Restricted Substances (117 substances)

5.2 Product Packaging Content Restrictions (4 additional requirements)

5.3 Battery Content Restrictions (4 additional requirements)

5.4 Reduction or Substitution Substances (52 substances)

5.5 Disclosure for SVHC under EU REACH (169 substances)

6. Halogen-free (HF) Parts Definition

7. Approved Substances Test Methods

 7.1 RoHS Test Methods

7.2 Halogen Test Methods

 Appendix 1: EU RoHS Exemptions List

 Appendix 2: List of CAS Numbers

■ RoHS Substances

Those substances restricted under the European RoHS Directive (2011/65/EU) and (EU) 2015/863, including cadmium, chromium VI, lead, mercury, Polybrominated biphenyls (PBB), Polybrominated diphenylethers (PBDE), Bis (2-ethylhexyl)phthalate (DEHP), Benzyl butyl phthalates (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP).





■ New Requirement (3 Substances)

PAH
多環芳香烴

Item	Substance	Threshold Limit	Controlled Uses
90-10	Indeno[1,2,3-cd]pyrene 茚並[1,2,3-cd]芘	1 ppm	茚並[1,2,3-cd]芘用在與皮膚接觸少於30秒的零部件
		0.5 ppm	茚並[1,2,3-cd]芘用在與皮膚接觸超過30秒的零部件
90-11	Acenaphthylene 芴 Acenaphthene 二氫芴 Fluorene 芴 Phenanthrene 菲 Pyrene 芘 Anthracene 蔥 Fluoranthene 熒蔥	總和 < 50 ppm	芴, 二氫芴, 芴, 菲, 芘, 蔥, 熒蔥用在與皮膚接觸少於30秒的零部件
		總和 < 10 ppm	芴, 二氫芴, 芴, 菲, 芘, 蔥, 熒蔥用在與皮膚接觸超過30秒的零部件
90-12	Naphthalene 萘	10 ppm	萘用在與皮膚接觸少於30秒的零部件
		2 ppm	萘用在與皮膚接觸超過30秒的零部件

■ Modify for RoHS substances

Item	Substance	Threshold Limit	Controlled Uses
1	Lead and its compounds 鉛及其化合物	1000 ppm	鉛用在所有應用中除以下鉛的限制和附錄1中列出的歐盟RoHS豁免範圍
		300 ppm	鉛用在線材的絕緣材料上和塗層上
		100 ppm	鉛用在噴漆、油墨、塗裝上和系統外殼機構件上
		50 ppm	鉛用在視頻顯示器的任意部件或零件上 (即液晶顯示器螢幕、液晶顯示器螢幕周圍外殼、外部電源、外部電源線、電池、顯示器主機板)
		90 ppm	含有碳酸鉛及硫酸鉛的油漆在零部件、元器件、材料或產品中的應用
		200 ppm	鉛用在配件包、配件袋、手提箱和背包中



■ Modify Requirement:

Item	Substance	Threshold Limit	Controlled Uses
12-7	Di-n-hexyl phthalate (DnHP) 鄰苯二甲酸二己酯	1000 ppm	鄰苯二甲酸二己酯在所有應用中
12-8	Di-n-pentyl phthalate (DnPP, DPP) 鄰苯二甲酸二戊酯	1000 ppm	鄰苯二甲酸二戊酯在所有應用中
72	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) 六溴環十二烷及其同素異構物(α -HBCDD, β -HBCDD, γ -HBCDD)	100 ppm	六溴環十二烷及其同素異構物在所有應用中
84	Pentachlorophenol (PCP) and its salts and esters 五氯苯酚及其鹽類和酯類	不得檢出	五氯苯酚及其鹽類和酯類在所有應用中
94	Polychlorinated naphthalenes (PCNs) (more than 2 chlorine atoms) 多氯化萘(氯原子數在2個以上)	不得檢出	多氯化萘(氯原子數在2個以上)在所有應用中
109	Toluene 甲苯	1000 ppm	甲苯在製程中及在黏著劑或噴漆的應用中



■ Modify PAHs Requirement:

PAH
多環芳香烴

Item	Substance	Threshold Limit	Controlled Uses
90	Polycyclic aromatic hydrocarbons (PAHs) (GS mark defined 18 PAHs) 多環芳香烴化合物(德國環保標章定義的18種多環芳香烴)	總和 < 50 ppm	多環芳香烴用在與皮膚接觸少於30秒的零部件
		總和 < 10 ppm	多環芳香烴用在與皮膚接觸超過30秒的零部件
90-1	Benzo[a]anthracene (BaA) 苯並[a]蒽	1 ppm	苯並[a]蒽用在與皮膚接觸少於30秒的零部件
		0.5 ppm	苯並[a]蒽用在與皮膚接觸超過30秒的零部件
90-2	Benzo[b]fluoranthene (BbFA) 苯並[b]熒蒽	1 ppm	苯並[b]熒蒽用在與皮膚接觸少於30秒的零部件
		0.5 ppm	苯並[b]熒蒽用在與皮膚接觸超過30秒的零部件
90-3	Benzo[k]fluoranthene (BkFA) 苯並[k]熒蒽	1 ppm	苯並[k]熒蒽用在與皮膚接觸少於30秒的零部件
		0.5 ppm	苯並[k]熒蒽用在與皮膚接觸超過30秒的零部件
90-4	Benzo[j]fluoranthene (BjFA) 苯並[j]熒蒽	1 ppm	苯並[j]熒蒽用在與皮膚接觸少於30秒的零部件
		0.5 ppm	苯並[j]熒蒽用在與皮膚接觸超過30秒的零部件



PAH
多環芳香烴

■ Modify PAHs Requirement:

Item	Substance	Threshold Limit	Controlled Uses
90-5	Benzo[a]pyrene (BaP) 苯並[a]芘	0.5 ppm 於乾燥物質	苯並[a]芘在木質材料中
		1 ppm	苯並[a]芘用在與皮膚接觸少於30秒的零部件
		0.5 ppm	苯並[a]芘用在與皮膚接觸超過30秒的零部件
90-6	Benzo[e]pyrene (BeP) 苯並[e]芘	1 ppm	苯並[e]芘用在與皮膚接觸少於30秒的零部件
		0.5 ppm	苯並[e]芘用在與皮膚接觸超過30秒的零部件
90-7	Benzo[g,h,i]perylene 苯並[g,h,i]芘	1 ppm	苯並[g,h,i]芘用在與皮膚接觸少於30秒的零部件
		0.5 ppm	苯並[g,h,i]芘用在與皮膚接觸超過30秒的零部件
90-8	Chrysene 二苯並萘	1 ppm	二苯並萘用在與皮膚接觸少於30秒的零部件
		0.5 ppm	二苯並萘用在與皮膚接觸超過30秒的零部件
90-9	Dibenzo[a, h]anthracene (DBahA) 二苯並[a, h]蔥	1 ppm	二苯並[a, h]蔥用在與皮膚接觸少於30秒的零部件
		0.5 ppm	二苯並[a, h]蔥用在與皮膚接觸超過30秒的零部件



Remove 2 Substances in Table 5.1

Substance	Threshold Limit	Controlled Uses
2,2'-dichloro-4,4'-methylenedianiline (MOCA) 2,2'-二氯-4,4'-亞甲基二苯胺	100 ppm	2,2'-二氯-4,4'-亞甲基二苯胺在所有應用中
4,4'- Diaminodiphenylmethane (MDA) 4,4'-二氨基二苯甲烷	100 ppm	4,4'-二氨基二苯甲烷在所有應用中



MOCA & MDA已被Azo dyes/colorants所管制

Item	Substance	Threshold Limit	Controlled Uses
34	Azo dyes/colorants 有機氮化合物	不得檢出	有機氮化合物在所有應用中



Section 5.4: Reduction or Substitution Substances

- 減量或替代物質: 共 52 substances
- 仁寶目前無禁限用這些物質，未來可能納入禁限用，需廠商即早尋找替代
- Ver A.6 新增以下5項減量或替代物質

Item	New Reduction or Substitution Substances	CAS No.
48	Nitrites, all members (亞硝酸鹽類)	Table 5.4.18
49	Sulfur (硫)	7704-34-9
50	Inorganic ammonium salts (無機銨鹽類)	-
51	Perfluoro carboxylic acid in OECD (PFCAs) (全氟羧酸化合物)	Table 5.4.19
52	Silica, crystalline (二氧化矽、石英)	14808-60-7

- 修改Perchlorates 物質

Item	Modify Reduction or Substitution Substances	CAS No.
27	Perchlorates, all members (高氯酸鹽類)	Table 5.4.7

- Candidate list of SVHC for Authorization: **173 substances** now

Candidate List	Substance No.	Date of inclusion
SVHC-1	15	2008/10/28
SVHC-2	15	2010/01/13 2010/03/30
SVHC-3	8	2010/06/18
SVHC-4	8	2010/12/15
SVHC-5	7	2011/06/20
SVHC-6	20	2011/12/19
SVHC-7	13	2012/06/18
SVHC-8	54	2012/12/19
SVHC-9	6	2013/06/20
SVHC-10	7	2013/12/16
SVHC-11	4	2014/06/16
SVHC-12	6	2014/12/17
SVHC-13	2	2015/06/15
SVHC-14	5	2015/12/17
SVHC-15	1	2016/6/20
SVHC-16	4	2016/12/19

SVHC:
Substances of
Very High
Concern
 高關注物質

(最新資料請參閱：<http://echa.europa.eu/candidate-list-table>)



- 因應歐盟REACH法規第33條之要求: 供應商須揭露SVHC相關安全資訊
- SVHC為授權清單的候選物質，仁寶鼓勵即早減量及排除這類物質的使用
- 且仁寶將列入授權清單的物質管制為禁限用(Table 5.1)
- 新增以下8項SVHC (SVHC 13~ 15) ，共169項

Item	Substance	CAS No.
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68648-93-1 68515-51-5
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 individual stereoisomers of [1] and [2] or any combination thereof]	-
164	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
165	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
166	1,3-propanesultone	1120-71-4
167	Perfluorononan-1-oic-acid and its sodium and ammonium salts (PFNA)	375-95-1 21049-39-8 4149-60-4
168	Nitrobenzene	98-95-3
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8

■ Halogen free (HF) 無鹵 (低鹵)

- 特別針對Brominated Flame Retardant (BFR), Chlorinated Flame Retardant (CFR), PVC, PVC copolymers的溴(Br) & 氯(Cl)要求

■ HF定義：

Br (bromine) < 900 ppm (Br來自於BFR)

Cl (chlorine) < 900 ppm (Cl來自於CFR or PVC or PVC copolymers)

Br+Cl < 1500 ppm (Br來自於BFR, Cl來自於CFR or PVC or PVC copolymers)

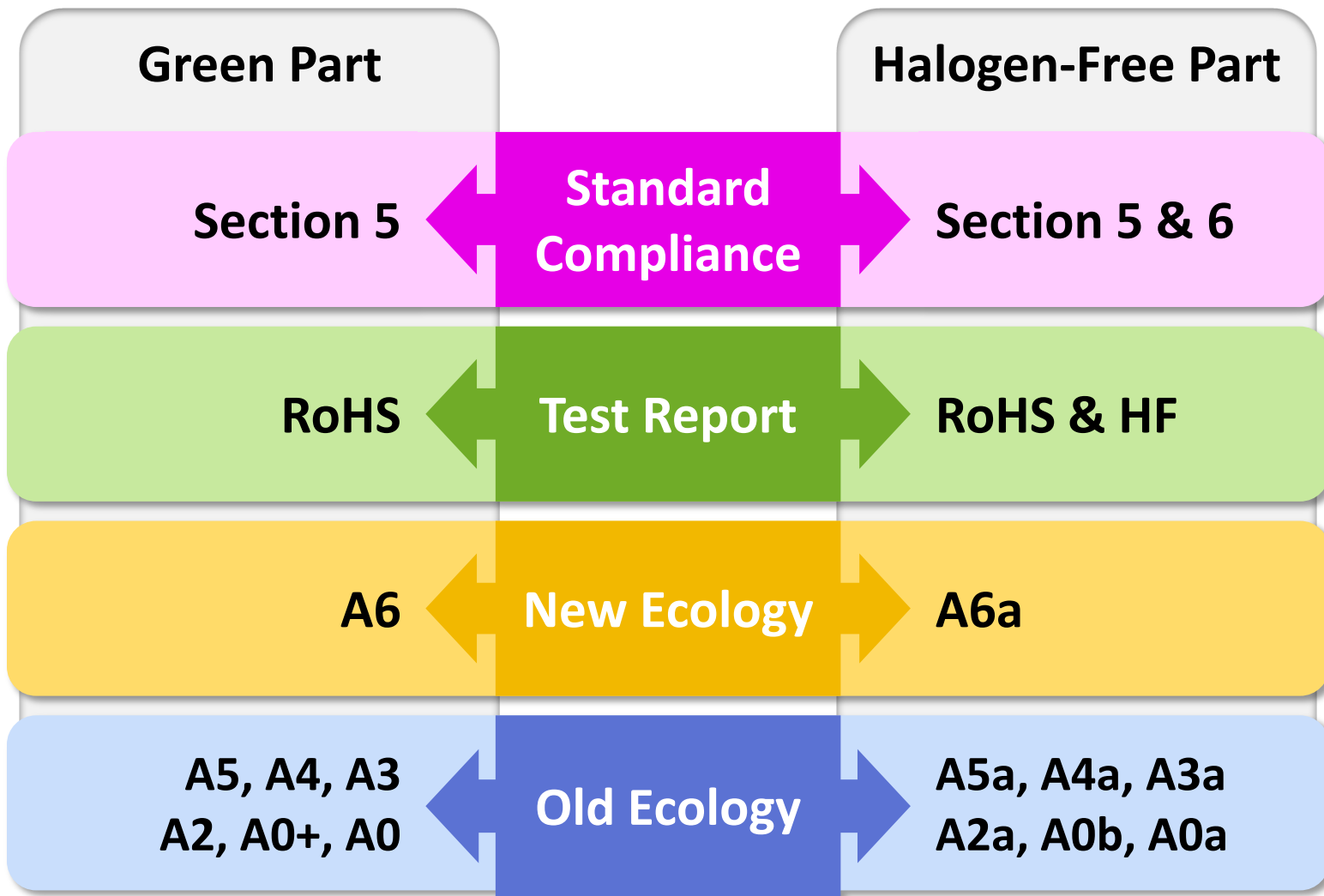
■ 無鹵零部件：

- Housing plastic parts 外部塑膠件

■ 常見含有鹵素的零件：

- Internal plastic parts 內部塑膠件
- Cable jacket 線材
- Printed circuit board 印刷電路板
- Electronic components 電子零件
- Connector resin 連接器
- Films, tapes, mylars and surface treatment 薄膜、膠帶、麥拉、表面處理

**Halogen-free for all parts?
Need to confirm with
Compal RD!**



- 要求RoHS 六項(Pb/Cd/Hg/Cr⁶⁺/PBB/PBDE)測試報告
- 測試報告須由 ISO 17025 認證的化學實驗室發布
- 測試方法請參照 IEC 62321

Substance	Metal Materials	Other Materials
PBB/PBDE 多溴聯苯/多溴聯苯醚	Not Applicable	GC-MS, IAMS, HPLC-PDA/UV
Hexavalent chromium (六價鉻)	boiling-water- extraction procedure (Note: EPA 3060A is not an acceptable test method)	Alkaline Digestion/ Colorimetric Method
Hg (汞)	CV-AAS, CV-AFS, ICP-OES, ICP-MS	
Pb/Cd (鉛/鎘)	AAS, AFS, ICP-OES, ICP-MS (Note: Procedures vary for each material type, see IEC document above)	

IAMS: Ion Attachment Mass Spectrometry (離子附著質譜法)

HPLC-PDA/UV: High-Pressure Liquid Chromatography Coupled to Photo Diode Array Ultra Violet Detector
(高效液相層析法)

- 要求鹵素Bromine (Br) & Chlorine (Cl)測試報告
- 測試報告須由 ISO 17025 認證的化學實驗室發布
- 測試方法請參照 IEC 61189-2, BS EN14582

Substance	Metal Materials	Other Materials
Br/Cl (溴/氯)	Not Applicable	Ion Chromatography (IC)

Br
Bromine

Cl
Chlorine

■ Add Exemption 13(b) for Lead

Ver A.5-1	
Exemption item	Substance
5(b)	Lead
6(a)	Lead
6(b)	Lead
6(c)	Lead
7(a)	Lead
7(c)-I	Lead
13(a)	Lead
13(b)	Cadmium
15	Lead



Ver A.6	
Exemption item	Substance
5(b)	Lead
6(a)	Lead
6(b)	Lead
6(c)	Lead
7(a)	Lead
7(c)-I	Lead
13(a)	Lead
13(b)	Lead Cadmium
15	Lead

13(b):

Cadmium and lead in filter glasses and glasses used for reflectance standards

We encourage suppliers to find all RoHS exemption alternatives previously !



仁寶綠色材質成份宣告書 MSD vA.6
MSD vA.6 Introduction

Go live: 2017/2/20



■ Instruction & Reference

- MSD Revision History
- Fill-in MSD instruction

■ Declaration- Sec A and B

- Basic Information
- Banned or Restricted Substances (*Refer to standard: section 5.1, 5.2, 5.3*)

■ Declaration- Sec C

- Halogen Substances (Br & Cl) (*Refer to standard: section 6*)
 - *Section C-1: Source is from BFR/CFRF/PVC/PVC copolymer*
 - *Section C-2: Source is NOT from BFR/CFRF/PVC/PVC copolymer*

■ Declaration- Sec D

- Reduction or substitution substances declaration (*Refer to standard: section 5.4*)

■ Declaration- Sec E

- EU REACH SVHC declaration (*Refer to standard: section 5.5*)



Compal Green Material Specification and Supplier Declaration 仁寶綠色材質成份宣告書

2017/02/20
Go Live

須確認是否為 Version A.6



Please be sure your declaration is authentic and your products are conforming to the requirements/regulations of Compal standard. You are also required to take all responsibility incurred by non-conforming or false declaring.

A. Basic Information

Manufacturer Name (ex. Compal Electronics, Inc.) 製造商名稱		Manufacturer Code (ex. COMPAL) 製造商代碼 (大寫英文)	
Supplier Name 供應商名稱		Vendor Code (ex. AAAA1) 仁寶廠商代號	
Product Name 產品名稱		Product Mass (g) 產品重量 (g)	
Compal MPN (Compal Manufacturer Part Number) 仁寶13碼料號		Compal Serial Code (This blank is only for Compal RDs use)	
Manufacturer P/N 製造商產品料號		Declaration date: yyyy-mm-dd 上傳登入日期	
Name of Contact Person 聯絡人名稱		Division of Contact Person 聯絡人部門 職稱	
Contact Person's E-mail 聯絡人電子郵件		Contact Person's TEL 聯絡人電話	
Signature of Authorized Company Representative 公司之授權代表簽名			

B. General Materials in Component/Product/Process

Please select the content status and fill in the "Test Result" & "Where Used" green blanks. Note: ppm= mg/kg

可從SDCP Help document下載最新版規定

符合仁寶零件及原料環境相關管制物質管理規定-903154文件中所列之所有要求，且不含有903154文件中所列之有害物質。我們同意仁寶電腦得隨時修改上述文件且同時在SDCP網站上公告，並同意本公司若未於公告後30天內提出異議，則視為接受修改本版之拘束。

We hereby represent and warrant that the products and components we sold to Compal shall compliance with all requirements of Compal Management Standard for Environment-related Substances- 903154 document, also not contain the hazardous substances listed in 903154 document. Compal reserves the right to modify 903154 document at any time. If we cannot meet the requirement in the modified document, we will submit an alternative in writing to consult with Compal within one month after the announcement of such modification. If we fail to submit any alternative in writing to consult with Compal within one month, such requirement in the modified document shall be deemed agreed by us.



[連結至SDCP Help document
http://tpegpmprd/Help/Doc.aspx](http://tpegpmprd/Help/Doc.aspx)

須符合仁寶零件及原料環境相關管制物質管理規定-903154文件中所列之所有要求

A6 (GP part)

- RoHS Report

A6a (GP+HF part)

- RoHS Report
- HF Report

Important !

- 測試報告須於**2011/07/01**以後發行才可被接受
- 所有測試報告均需上傳至SDCP系統與MSD資料進行連結
- 所有測試報告均需由具備ISO 17025認證的化學實驗室發行

- ✓ RoHS Report: 檢測均質材料中 RoHS 物質(Pb/Cd/Hg/Cr⁶⁺/PBB/PBDE)含量
- ✓ HF Report: 檢測均質材料中Br與Cl含量

Please be sure your declaration is authentic and your products are conforming to the requirements/regulations of Compal standard. You are also required to take all responsibility incurred by non-conforming or false declaring.

A. Basic Information			
Manufacturer Name (ex. Compal Electronics, Inc.) 製造商名稱		Manufacturer Code (ex. COMPAL) 製造商代碼 (大寫英文)	
Supplier Name 供應商名稱		Vendor Code (ex. AAAA1) 仁寶廠商代號	
Product Name 產品名稱		Product Mass (g) 產品重量 (g)	
Compal MPN (Compal Manufacturer Part Number) 仁寶13碼料號		Compal Serial Code (This blank is only for Compal RDs use) 仁寶系列料號 (此欄僅供仁寶RD使用)	
Manufacturer P/N 製造商產品料號		Declaration date: yyyy-mm-dd 上傳登入日期	
Name of Contact Person 聯絡人名稱		Division of Contact Person 聯絡人部門職稱	
Contact Person's E-mail 聯絡人電子郵件		Contact Person's TEL 聯絡人電話	
Signature of Authorized Company Representative 公司之授權代表簽名			

C. Halogen Substances Survey

C-1. Please select the content status and fill in the "Test Result" & "Where Used" green blanks. Note: ppm= mg/kg

Halogen 鹵素物質	Substance Name 物質縮寫	Halogen-free Threshold Level (homogenous material) 無鹵素限值 (均質材料)	Controlled Applications 限制範圍	Unit 單位	Select Substance Content Status 選擇是否含有該物質 Please select Uncertain/ Yes/ No/ Not Applicable	Test Result 測試含量結果	Where Used 何處含有
		900	Bromine in internal plastic parts	ppm	Uncertain		
		900	Bromine in cable jacket	ppm	Uncertain		
		900	Bromine in printed circuit board	ppm	Uncertain		

D. Reduction or substitution substances declaration

Please select the content status and fill in the "Test Result" & "Where Used" yellow blanks. Note: ppm= mg/kg

Reduction or Substitution Substances 減量或替代物質	Substance Name 物質縮寫	Recommend Threshold Level (homogenous material) 建議限制含量 (均質材料)	Controlled Applications 限制範圍	Unit 單位	Select Substance Content Status 選擇是否含有該物質 Please select Yes/No	Test Result 測試含量結果	Where Used 何處含有
1-(Tricyclohexylstannyl)-1H-1,2,4-triazole (三唑錫)	1-(Tricyclohexylstannyl)-1H-1,2,4-triazole	1000	All applications	ppm			
2-(2-methoxyethoxy)ethanol (2-(2-甲氧基乙氧基)乙醇)	DEGME	1000	All applications	ppm			

Please be sure your declaration is authentic and your products are conforming to the requirements/regulations of Compal standard. You are also required to take all responsibility incurred by non-conforming or false declaring.

A. Basic Information		
Manufacturer Name (ex. Compal Electronics, Inc.) 製造商名稱		Manufacturer Code (ex. COMPAL) 製造商代碼 (大寫英文)
Supplier Name 供應商名稱		Vendor Code (ex. AAAA1) 仁寶廠商代號
Product Name 產品名稱		Product Mass (g) 產品重量 (g)
Compal MPN (Compal Manufacturer Part Number) 仁寶13碼料號		Compal Serial Code (This blank is only for Compal RDs use) 仁寶系列料號 (此欄僅供仁寶RD使用)
Manufacturer P/N 製造商產品料號	基本資料填寫區(綠色欄位)	
Name of Contact Person 聯絡人名稱		
Contact Person's E-mail 聯絡人電子郵件		Contact Person's TEL 聯絡人電話
Signature of Authorized Company Representative 公司之授權代表簽名		

C. Halogen Substances Survey

C-1. Please select the content status and fill in the "Test Result" & "Where Used" green blanks. Note: ppm= mg/kg

Halogen 鹵素物質	Substance Name 物質縮寫	Halogen-free Threshold Level (homogenous material) 無鹵素限值 (均質材料)	Controlled Applications 限制範圍	Unit 單位	Select Substance Content Status 選擇是否含有該物質 <input type="radio"/> Please select Uncertain/ Yes/ No/ Not Applicable	Test Result 測試含量結果	Where Used 何處含有
		900	Bromine in internal plastic parts	ppm	Uncertain		
		900	Bromine in cable jacket	ppm	Uncertain		
		900	Bromine in printed circuit board	ppm	Uncertain		

D. Reduction or substitution substances declaration

Please select the content status and fill in the "Test Result" & "Where Used" yellow blanks. Note: ppm= mg/kg

Reduction or Substitution Substances 減量或替代物質	Substance Name 物質縮寫	Substance Threshold Level (均質材料)	Controlled Applications	Unit	Please select Yes/No	Where Used 何處含有
1-(Tricyclohexylstanny)-1H-1,2,4-triazole (三唑錫)	1-(Tricyclohexylstanny)-1H-1,2,4-triazole	1000	All applications	ppm		
2-(2-methoxyethoxy)ethanol (2-(2-甲氧基乙氧基)乙醇)	DEGME	1000	All applications	ppm		

A. 基本資料填寫區

A. Basic Information

Please fill the basic information between suppliers and Compal in below green blank area.

Manufacturer Name (ex. Compal Electronics, Inc.) 製造商名稱	<input type="text" value="請填入製造廠商英文全名"/>	Manufacturer Code (ex. COMPAL) 製造商代碼 (大寫英文)	<input type="text" value="由仁寶RD 端取得仁寶13碼料號時，同時取得此料號的製造商代碼"/>
Supplier Name 供應商名稱	<input type="text" value="請填入供應商英文全名"/>	Vendor Code (ex. AAAA1) 仁寶廠商代號	<input type="text" value="仁寶採購為供應商申請的廠商代號，與您的登入帳號相同"/>
Product Name 產品名稱	<input type="text" value="ex. IC"/>	Product Mass (g) 產品重量 (g)	<input type="text" value="2;2"/> <input type="text" value="宣告單一零件重量"/>
Compal MPN (Compal Manufacturer Part Number) 仁寶13碼料號	<input type="text" value="輸入多筆資料時，以;(半形分號)區隔"/> <input type="text" value="A1234567890M1;B1234567890M2"/>	Compal Serial Code (This blank is only for Compal RDs use) 仁寶系列料號 (此欄僅供仁寶RD使用)	<input type="text" value="廠商提供MSD資料給仁寶RD，仁寶RD填寫系列料號&上傳資料"/>
Manufacturer P/N 製造商產品料號		Declaration date: yyyy-mm-dd 上傳登入日期	<input type="text" value="2017-02-20"/>
Name of Contact Person 聯絡人名稱		Division of Contact Person 聯絡人部門/職稱	
Contact Person's E-mail 聯絡人電子郵件		Contact Person's TEL 聯絡人電話	
Signature of Authorized Company Representative 公司之授權代表簽名			



- RoHS禁限用物質宣告 → 須提供6項RoHS物質 (Pb/Cd/Hg/Cr⁶⁺/PBB/PBDE) Evidence
- Standard要求禁限用物質

B. 禁限用物質宣告區

B. General Materials in Component/Product/Process

Please select the content status and fill in the "Test Result" & "Where Used" green blanks. Note: ppm= mg/kg

符合仁寶零件及原料環境相關管制物質管理規定-903154文件中所列之所有要求，且不含903154文件中所列之有害物質。我們同意仁寶電腦得隨時修改上述文件且同時在SDCP網站上公告，並同意本公司若未於公告後30天內提出異議，則視為接受修改本版之拘束。

We hereby represent and warrant that the products and components we sold to Compal shall compliance with all requirements of Compal Management Standard for Environment-related Substances- 903154 document, also not contain the hazardous substances listed in 903154 document. Compal reserves the right to modify 903154 document at any time. If we cannot meet the requirement in the modified document, we will submit an alternative in writing to consult with Compal within one month after the announcement of such modification. If we fail to submit any alternative in writing to consult with Compal within one month, such requirement in the modified document shall be deemed agreed by us.

連結至SDCP Help document
<https://sdcpc.compal.com/Help/Doc.aspx>

	Restricted Material 限用物質	Substance Name 物質縮寫	Threshold Level (homogenous material) 限制含量 (均質材料)	Controlled Applications 限制範圍	Unit 單位	Select Substance Content Status 選擇是否含有該物質 Please select Yes/No/Not Applicable Please select Yes/No	Test Result 測試含量結果	Where Used 何處含有	Apply Which Exemption Rule? 適用何項排外條款
Banned or Restricted Substances Content Survey	Lead and its Compounds (鉛及其化合物)	Pb	100	Lead in Paint, Ink, Lacquer, or other Coatings	ppm	+			
				Lead in System External Chassis/Case Parts	ppm				

選"No"時，H欄須填寫"0"
 選"Yes"時，H欄須填數值
 選"Not Applicable"，H欄須保留空白

Select "No", must fill "0" on column H
 Select "Yes", must fill "Numerical" on column H
 Select "Not Applicable", keep blank on column H

Tips! 點選G欄會出現填寫提示 ←

B. 禁限用物質宣告區

G	H	I	J
Select Substance Content Status 選擇是否含有該物質 <input type="checkbox"/> Please select Yes/No/Not Applicable <input type="checkbox"/> Please select Yes/No	Test Result 測試含量結果	Where Used 何處含有	Apply Which Exemption Rule? 適用何項排外條款
Yes	600;400	rubber; wire	
No	0.0		
Not Applicable			

Contained Status? 是否含有?	Test Result 測試含量結果	Where use 何處含有
Yes	1. 輸入“ 大於0 ” 的值(對照單位) 2. 輸入 多個 數值時, 以分號 ; 區隔 3. 將多個測試結果 全部 輸入	填寫含有該物質的部位 (多筆資料以分號 ; 區隔)
No	1. 必需填入“ 0 ” 2. 報告測試值為 N.D. 時, 輸入“ 0 ”	保持空白, 不需要輸入
Not Applicable (不適用該範圍)	保持空白, 不需要輸入	保持空白, 不需要輸入

C. 鹵素物質宣告區

- Section C-1: 來自BFR的Br & 來自CFR/PVC/PVC copolymer的Cl

C. Halogen Substances Survey

C-1. Please select the content status and fill in the "Test Result" & "Where Used" green blanks. Note: ppm= mg/kg

	Halogen 鹵素物質	Substance Name 物質縮寫	Halogen-free Threshold Level (homogenous material) 無鹵素限值 (均質材料)	Controlled Applications 限制範圍	Unit 單位	Select Substance Content Status 選擇是否含有該物質 Please select Uncertain/ Yes/ No/ Not Applicable	Test Result 測試含量結果	Where Used 何處含有
Halogen Substances Survey	Bromine if its source is from BFR (來自溴系阻燃 劑中的溴)	Br	900	Bromine in internal plastic parts	ppm	+		
			900	Bromine in cable jacket	ppm			
			900	Bromine in printed circuit board	ppm			
			900	Bromine in electronic components	ppm			
			900	Bromine in connector resin	ppm			
			900	Bromine in films, tapes, mylars and surface treatment	ppm			

選"No"，H欄須填"0"
選"Yes"，H欄須填值
選"Uncertain" 或 "Not
Applicable"時，H欄保留空白

Select "No", must fill "0" on column H
Select "Yes", must fill "Numerical" on
column H
Select "Uncertain" or " Not
Applicable " , keep blank on column H

Tips!

欲承認為無鹵HF的零件：

- 必須提供 **Br & Cl Evidence**
- Sec C-1 任一欄位不能宣告 "uncertain"

C. 鹵素物質宣告區

G	H	I
Select Substance Content Status 選擇是否含有該物質 Please select Uncertain/Yes/No/Not Applicable	Test Result 測試含量結果	Where Used 何處含有
Uncertain	無法提交佐證資料者	
Yes	200;300	capacity;resistance
No	0.0	
Not Applicable		

Contained Status? 是否含有?	Test Result 測試含量結果	Where use 何處含有
Uncertain	保持空白，不需要輸入	保持空白，不需要輸入
Yes	<ol style="list-style-type: none"> 輸入“大於0”的值(對照單位) 輸入多個數值時, 以分號 ; 區隔 將多個測試結果全部輸入 	填寫含有該物質的部位 (多筆資料以分號 ; 區隔)
No	<ol style="list-style-type: none"> 必需填入“0” 報告測試值為N.D.時，輸入“0” 	保持空白，不需要輸入
Not Applicable (不適用該範圍)	保持空白，不需要輸入	保持空白，不需要輸入

C. 鹵素物質宣告區

- Section C-2: 非來自BFR的Br & 非來自CFR/PVC/PVC copolymer的Cl

C. Halogen Substances Survey

C-2. Please select the content status and fill in the "Test Result" & "Where Used" green blanks. Note: ppm= mg/kg

	Halogen 鹵素物質	Substance Name 物質縮寫	Halogen-free Recommend Threshold Level (homogenous material) 無鹵素建議限 值 (均質材料)	Controlled Applications 限制範圍	Unit 單位	Select Substance Content Status 選擇是否含有該物質 ■ Please select Uncertain/ Yes/ No	Test Result 測試含量結果	Where Used 何處含有
Halogen Substances Survey	Bromine if its source is <u>not</u> from BFR (<u>非</u> 來自溴系阻 燃劑中的溴)	Br not from BFR	900	Bromine (not from BFR) in all applications	ppm	+		
	Chlorine if its source is <u>not</u> from CFR/PVC/PVC copolymer (<u>非</u> 來自氯系阻 燃劑或聚氯乙 烯中的氯)	Cl not from CFR/PVC/ PVC copolymer	900	Chlorine (not from CFR/PVC/PVC copolymer) in all applications	ppm			

選"No"，H欄須填"0"
 選"Yes"，H欄須填值
 選"Uncertain"時，H欄保留空白

Select "No", must fill "0" on column H
 Select "Yes", must fill "Numerical" on
 column H
 Select "Uncertain", keep blank on
 column H

C. 鹵素物質宣告區

G	H	I
Select Substance Content Status 選擇是否含有該物質 ■ Please select Uncertain/ Yes/ No	Test Result 測試含量結果	Where Used 何處含有
Uncertain	無法提交佐證資料者	
Yes	200;300	capacity;resistance
No	0.0	

Contained Status? 是否含有?	Test Result 測試含量結果	Where use 何處含有
Uncertain	保持空白，不需要輸入	保持空白，不需要輸入
Yes	1. 輸入“大於0”的值(對照單位) 2. 輸入多個數值時, 以分號 ; 區隔 3. 將多個測試結果 全部 輸入	填寫含有該物質的部位 (多筆資料以分號 ; 區隔)
No	1. 必需填入“ 0” 2. 報告測試值為N.D.時，輸入“ 0”	保持空白，不需要輸入

- Sec D有52項減量或替代物質，需要宣告含量
- 目前無強制禁限用，但未來可能禁限用

D. 減量或替代物質宣告區

D. Reduction or substitution substances declaration

Please select the content status and fill in the "Test Result" & "Where Used" yellow blanks. Note: ppm= mg/kg

	Reduction or Substitution Substances 減量或替代物質	Substance Name 物質縮寫	Recommend Threshold Level (homogenous material) 建議限制含量 (均質材料)	Controlled Applications 限制範圍	Unit 單位	Select Substance Content Status 選擇是否含有該物質 Please select Yes/No	Test Result 測試含量結果	Where Used 何處含有
Reduction or substitution substances declaration (These substances are not currently banned or restricted)	1-(Tricyclohexylstannyl)-1H-1,2,4-triazole (三唑錫)	1-(Tricyclohexylstannyl)-1H-1,2,4-triazole	1000	All applications	ppm	+		
	2-(2-methoxyethoxy)ethanol (2-(2-甲氧基乙氧基)乙醇)	DEGME	1000	All applications	ppm			
	2-(2-butoxyethoxy)ethanol (2-(2-丁氧基乙氧基)乙醇)	DEGBE	1000	All applications	ppm			
	2,3-Dibromo-1-propanol (2,3-二溴-1-丙醇)	2,3-Dibromo-1-propanol	1000	All applications	ppm			

選"No"時，H欄須填"0"
選"Yes"時，H欄須填值

Select "No", must fill "0" on column H
Select "Yes", must fill "Numerical" on column H

D. 減量或替代物質宣告區

G	H	I
Select Substance Content Status 選擇是否含有該物質 ■ Please select Yes/No	Test Result 測試含量結果	Where Used 何處含有
Yes	100;200	Surface;rubber
No	0.0	

Contained Status? 是否含有?	Test Result 測試含量結果	Where use 何處含有
Yes	<ol style="list-style-type: none"> 輸入“大於0”的值(對照單位) 輸入多個數值時, 以分號 ; 區隔 將多個測試結果全部輸入 	填寫含有該物質的部位 (多筆資料以分號 ; 區隔)
No	<ol style="list-style-type: none"> 必需填入“0” 報告測試值為N.D.時, 輸入“0” 	保持空白, 不需要輸入

E. REACH SVHC 物質宣告區

- Section E: 此次A.6 新增SVHC 13~15批

E. EU REACH SVHC declaration

Please select the content status and fill in the "Test Result" & "Where Used" & "Weight of homogenous material" yellow blanks. Note: ppm= mg/kg

	SVHC (Substance of Very High Concern) 高關注物質	Substance Name 物質縮寫	Recommend Threshold Level (homogenous material) 建議限制含量 (均質材料)	Controlled Applications 限制範圍	Unit 單位	Select Substance Content Status 選擇是否含有該物質 Please select Yes/No	Test Result 測試含量結果	Where Used 何處含有	Weight of Homogenous Material (g) 均質材料重量(克)
EU REACH SVHC declaration (These substances are not currently banned or restricted)	Anthracene (蒽)	Anthracene	1000	All applications	ppm	+			
	Lead hydrogen arsenate (砷酸氫鉛)	AsHO4Pb	1000	All applications	ppm				
	Triethyl arsenate (三乙基砷酸酯)	(C2H5O)3AsO	1000	All applications	ppm				
	Anthracene Oil (蒽油)	Anthracene Oil	1000	All applications	ppm				
	Anthracene Oil, anthracene past, distn. Lights (蒽油, 蒽糊, 輕油)	AO, AP, distn, Light	1000	All applications	ppm				
	Anthracene Oil, anthracene past, anthracene fraction (蒽油, 蒽糊, 蒽餾分離液)	AO, AP anthracene fraction	1000	All applications	ppm				

選"No"時，H欄須填"0"
選"Yes"時，H欄須填值

Select "No", must fill "0" on column H
Select "Yes", must fill "Numerical" on column H

需填寫含有部位的重量

E. REACH SVHC物質宣告區

G	H	I	J
Select Substance Content Status 選擇是否含有該物質 Please select Yes/No	Test Result 測試含量結果	Where Used 何處含有	Weight of Homogenous Material (g) 均質材料重量(克)
Yes	100;200	Surface;rubber	0.2;1.8
No	0		

Contained Status? 是否含有?	Test Result 測試含量結果	Where use 何處含有	Weight of Homogenous Material (g) 均質材料重量 (克)
Yes	<ol style="list-style-type: none"> 輸入“大於0”的值(對照單位) 輸入多個數值時,以分號;區隔 將多個測試結果全部輸入 	填寫含有該物質的部位 (多筆資料以分號;區隔)	填寫該部位的重量(多筆資料以分號;區隔)
No	<ol style="list-style-type: none"> 必需填入“0” 報告測試值為N.D.時,輸入“0” 	保持空白,不需要輸入	保持空白,不需要輸入

宣告一致性

- MSD宣告須與測試報告一致

選擇正確適用範圍

- 含有鉛的零件，不可在Section B 第16~34行皆宣告NA
- 顯示器零件(Display part)，不可在Section B 第22行宣告NA
- 電池零件 (Battery part)，不可在Section B 第25 & 36 & 41行宣告NA
- 含有PAHs物質的零件不可皆宣告NA，對於內部機構件須宣告在接觸<30s的欄位
- 含有PVC物質的零件，不可在Section B第161& 162欄皆宣告NA

PVC線材不可宣告為無鹵

- PVC Cable，在Section C-1不可全選No

外部機構塑膠件(FA料頭)強制要求無鹵

- 須提供鹵素測試報告，且MSD Section B 第182~184行不可同時選NA

■ RoHS & HF測試報告要求:

- 增加Pb/Cd/PBB/PBDE測試方法
- 須為通過 ISO 17025 認證之實驗室且於 **2011/07/01** 之後發行的報告

■ 禁限用物質

- 共**117項**，須符合仁寶管制物質管理規定

■ 減量或替代物質

- 共 **52項**，未來可能納入禁限用

■ SVHC清單

- 新增至第15批，目前共有**169項**化學物質

Question	Contact window	分機
MSD, ATT	Dan Wei	#10255
FMD	Zoe Liao	#11679
SMTD	Eason Wang	#11916
廠商 SDCP帳號&密碼 申請 (仁寶採購窗口)	EE: Lillian Lee	#11250
	EM/ME(亞太): Anniee Lee	#11661
	EM/ME(歐美): Emilyyun Yu	#10273
	KPM: Nina Su	#10339
	Server : Natalie Chang	#11808
	Brazil Purchasing: Liciane Lacerda	+55-11-3109-6532
	新產品/車電: Ginnie Wu	#11526

更多資訊 <https://sdcp.compall.com>



THANK YOU