



文件修訂歷程 Revision history of document

版次 Rev.	生效日期 Eff. Date	提案者 Issued By	變更說明 Description of Change
A	01/15/2010	張秀婉	新建立
B	06/01/2010	張秀婉	1.新增英文版 2.全文修改: 5.1 權責、7.2 有害物質管制作業、7.4 不合格品管制、7.5 文件管理、修改有害物質不使用保證書增加新竹園區分公司、新增有害物質測試報告管制一覽表、新增 HS 識別章 3.針對 Sony SS-00259 ver.9 及 REACH SVHC 新公佈候選清單 (1)修改 7.1 有害物質管理清單 (2)修改有害物質的主要管制對象和禁止供貨時期
C	10/12/2010	張秀婉	1.修改 7.1 及附件二, 增加 REACH 第三批清單及允許濃度 2.修改有害物質不使用保證書(B)
D	05/09/2011	張秀婉	依 Sony SS-00259 ver.10 及 REACH SVHC 第四批清單 全文修改
E	07/28/2011	張秀婉	增加 REACH SVHC 第五批清單
F	09/23/2011	陳志銘	修改 7.5.1(d) 有害物質測試報告到期前通報機制
G	03/28/2012	張秀婉	1.原 2.2 術語定義搬移至現在 5.2 術語定義 2.新增 7.5.1(c2)(c3)MCD/MSDS 文件管理規定 3.修改附件一鉛物質 Level2 轉移 Level1 4.新增附件二 REACH SVHC 第六批清單
H	04/18/2012	張秀婉	1.修改 Sony SS-00259 ver.11 變更內容
I	09/28/2012	張秀婉	1.修改附件二 REACH SVHC (a)新增第七批清單 (b)刪除原項目 57 Aluminosilicate Refractory Ceramic Fibres 併入項目 17; 刪除原項目 54 Zirconia Aluminosilicate Refractory Ceramic Fibres 併入項目 29 2.修改“有害物質測試報告管制一覽表” 3.修改 7.5.2 異常反饋作業
J	10/25/2013	張秀婉	1.修改 3.2RoHS 指令編號、3.8 SS-00259 版本編號 2.刪除 3.4~3.6 相關文件名稱 3.修改業務單位、研發單位、品保單位權責 4.修改 5.2.6 無鹵零件術語定義, 刪除 5.2.10MCD 5.新增 5.3 物質污染風險等級定義 6.修改 7.1 有害物質管理項目及增加附件 SVHC 第八/九批物質 7.新增 7.2 有害物質標準來源、修改 7.3 有害物質管制作業

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K	01/24/2014	張秀婉	修改增加附件 SVHC 第十批物質
L	06/27/2014	張秀婉	修改 Sony SS-00259 ver.13 內容
M	08/06/2014	張秀婉	1.修正 5.2.6 英文錯誤 2.修改增加附件 SVHC 第十一批物質 3.修改 7.5.1(d1)有害物質檢測實驗室資格
N	07/01/2015	張秀婉	修改增加附件 SVHC 第十二批物質
O	10/05/2015	張秀婉	1.修改增加附件 SVHC 第十三批物質 2.修改 Sony SS-00259 ver.14 內容 3.新增 RoHS 2.0 禁用物質 4.新增衝突礦產要求事項
P	03/04/2016	陳文莉	1.修改增加附件 SVHC 第十四批物質 2.新增 9 記錄保存規定 3.修改表單 YT03-QA-016-03 有害物質測試報告管制一覽表
Q	07/25/2016	陳文莉	修改增加附件 SVHC 第十五批物質
S	03/29/2017	陳文莉	修改增加附件 SVHC 第十六批物質
T	06/28/2017	陳文莉	修改 Sony SS-00259 ver.15 內容
U	08/18/2017	陳文莉	修改增加附件 SVHC 第十七批物質
V	08/30/2017	陳文莉	修改 5.2.9、7.5.1、附件一、附件二 術語定義(MSDS→SDS)
W	03/05/2018	陳文莉	1.修改增加附件 SVHC 第十八批物質 2.修改 7.3.1(b) XRF 規格
X	06/04/2018	陳文莉	1.修改 Sony SS-00259 ver.16 內容 2.刪除 7.1 之第 57 項(二苯胺、苯乙烯和 2,4,4-三甲基戊烯的反應物(BNST))管制物質 3.修改六溴環十二烷(HBCDD)之允許限值 4. 修改特定鄰苯二甲酸鹽(*SVHC) Specific phthalates (DEHP、DBP、BBP、DIBP)之等級規定 5.修改表單 YT03-QA-016-01 和 YT03-QA-016-03 條文版本
Y	07/10/2018	張秀婉	1.調整 5.3、7.3.1 對於風險定義與管理 2.補強 7.3.2、7.3.3、7.3.4 作業細節 3.增加 7.7 人員能力、附件七 IEC/PAS 62596 Annex B 材料風險等級、AOI/ATE-部件與風險清單(YT03-QA-016-06)
Z	08/30/2018	陳文莉	1.修改附件四 REACH SVHC 清單，增加第十九批物質。



***** 目 錄 *****

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1 目的 Purpose：

- 1.1 針對久元指定列入禁限用物質管理之綠色產品，包含成品、半成品、零部件、設備及原物料等，所含的環境管理物質，依據本規範進行管制 (1) 禁止及限制使用物質、(2) 計劃廢除物質、(3) 削減物質，以達到下列目的：

- 1.1.1 防止混入禁用物質；
- 1.1.2 遵守法令及符合客戶要求；
- 1.1.3 減輕對生態影響；

The green product that including finished-product, semi-product, parts, materials and machines would be controlled and managed with this specification by YTEC, and be taken actions such as (1) banned and controlled substances, (2) planned to ban substances, (3) make reducing plan, to achieve objectives as below:

- 1.1.1 Avoid to use banned substance.
- 1.1.2 Obey the regulations and customers' request.
- 1.1.3 Mitigate the influence of environment.

2 範圍 Scope：

- 2.1 本規範適用於久元顧客委託代工產品以及自行研發銷售產品中所含之禁限用環境管理物質，具體而言包含下列材料：

This specification is suited to OEM service group and Own-product group, and including parts and materials as below:

- 2.1.1 直接材料：用於產品組裝的所有零件材料，例如元件(assemblies)、附件(attachments)、零元件(parts)、部件(components)、材料(materials) ... 等；

The parts for assembly product, for example: assemblies, attachments, parts, components, materials...etc..

- 2.1.2 間接材料：生產與維修過程中所使用的加工材料，例如油墨、助焊劑、潤滑劑... 等；

The sub-materials that used in production and maintenance processes, for example: ink, soldering flux, lubricant...etc..

- 2.1.3 產品的包裝材料；

Packaging materials.

- 2.1.4 模治具及輔助材：生產與維修過程中所使用，並會與產品接觸的模具、工具、輔助生產作業之材料均屬之，例如：手套、探針...等。

Tooling, Jig and Kit: The tools or materials that be used in production and maintenance processes would be attached the product, for example: glove, probe...etc..

- 2.1.5 與生產無關之化學物料，以及客戶指定使用材料不在本管制範圍。

Excluding the chemicals unconcerned with production, and the materials that customer assigned.



3 相關文件 Related Documents：

3.1 廢電機電子設備回收指令 (WEEE, 2012/19/EC)

Directive on the Waste Electronics and Electrical Equipment

3.2 電機電子設備有害物質限用指令(RoHS, 2011/65/EU)、(EU) 2015/863

The Restriction of the use of certain Hazardous Substances in electrical and electronic equipment

2015年6月4日新增4項物質，所有電子電器產品(除醫療設備和監控設備)自2019年7月22日起需滿足新要求，醫療設備和監控設備自2021年7月22日起需滿足新要求。

On 4 June 2015, the EU commission has published a new Directive (EU) 2015/863 to amend Annex II to EU RoHS 2 (Directive 2011/65/EU) to add the following 4 phthalates onto the list of restricted substances.

DEHP, BBP, DBP and DIBP are primarily used as plasticisers to soften plastics. They will be restricted from 22 July 2019 for all electrical and electronic equipment apart from Category 8 (medical devices) and Category 9 (monitoring and control equipment) that will have an additional two years to comply by 22 July 2021.

3.3 IEC 62321 決定電子產品中法定有害物質檢測條例

Electrotechnical products - Determination of levels of six regulated substances

3.4 包裝材與包裝材廢棄物指令(PPW, 94/62/EC, 2004/12/EC)

Packaging and Packaging Waste

3.5 挪威消費性產品中禁用特定有害物質法令(PoHS)

Norway Prohibition on Certain Hazardous Substances in consumer Products

3.6 化學物品的註冊、評估、授權與限制法令(REACH, 1907/2006/EC)

Registration Evaluation and Authorization of Chemicals

3.7 富馬酸二甲酯緊急禁令(2009/251/EC)

Requiring Member States to ensure that products containing the biocide dimethylfumarate are not placed or made available on the market

3.8 零部件和材料中的環境管理物質 SS-00259 第十六版 一般公開版。

Management regulations for the environment-related substances to be controlled which are included in parts and materials. (SS-00259, 16th Edition, for general use)

3.9 關於限制全氟辛烷磺酸銷售及使用的指令(碳氟化合物) (PFOS, 2006/122/EC)

PFOS Directive

3.10 客戶綠色規範。

Customer's spec. for Green product.



4 設備/材料 Equipment/Material：

4.1 無。Nil.

5 要求事項 Requirement：

5.1 權責 Responsibility：

5.1.1 業務單位 Sales unit：

(a) 負責接收、傳達來自於客戶的相關要求，並傳達予公司內部。

Responsible to receive, transform the requests form customers and communicated to the company's internal.

(b) 針對於自有產品事業單位，需再負責收集產品計劃銷售地關於有害物質相關法規。

For Own Product BU, also responsible for collecting sales to product planning regulations on hazardous substances.

5.1.2 採購單位：負責溝通與協調供應商配合本管制規範。

Purchase unit: responsible to communicate to suppliers to follow YTEC spec..

5.1.3 生管單位：負責溝通與協調製程外包商配合本管制規範。

PC unit: responsible to communicate to subcontractors to follow YTEC spec..

5.1.4 研發單位 R&D unit：

(a) 於產品開發階段應避免使用禁限用物質。

Responsible to avoid to use Hazardous Substance in design phase.

(b) 於開發案中建立禁限用物質使用標準。

In development projects to establish standards of hazardous substances.

5.1.5 品保單位 QA unit：

(a) 負責解讀國際環境法規及客戶相關要求，並適時更新本管制規範。

Study national environmental regulations or customers' requests, and update this specification timely.

(b) 按此管制規範進行進料檢驗、製程管制及出貨檢驗等事宜，並負責依本管制規範審核與確認供應商所提交之佐證資料以進行材料承認。

Control the HSF quality of incoming, process, outgoing according to this specification. Review the information offered by suppliers conformed with this specification or not.

(c) 負責材料及外包商風險等級評估。

Responsible to estimate risk of material and outsourcing.

5.1.6 久元之供應商及外包商：提供符合本規範之產品及所需資料。

Provide products and related reports satisfied the requirements of this specification.

5.2 術語定義 Terminology definition：

5.2.1 有害物質 HS (Hazardous Substance)：

在成品、半成品、零部件、及原物料等所含有的物質中，有對地球環境和人體存在顯著影響的物質。

Hazardous Substances are the substances contained in finished-product,



semi-products, parts, and materials that have significant environmental impact on both humans and the global environment according to YTEC and its customers judgment.

5.2.2 管理級別按照以下 3 種管理級別和排外項目進行管理。

Management standards : To manage the above-mentioned substances, the following levels and exemption are used:

(a) Level 1 : 對於該物質及其用途立即禁止使用。

The substances and their applications classified into this level are those that are banned.

(b) Level 2 : 對於該物質及其用途規定一定時期予以禁止。超過表中規定的日期之後，不能在部件及材料中使用，到達期限時指定為「Level 1」。

On the date set in each table, the substances and their applications in the respective tables shall be reclassified into level 1.

(c) Level 3 : 目前雖然沒有規定全面禁止之目標與時程，但指定了計畫削減在部件、材料中含量的物質及其用途；若經判定符合此技術標準之替代零部件、新開發材料或替代技術可使用於產品上，則可變更為 2 級並按時程執行全數廢除。

No effective date of the ban on the delivery is currently set for the substances and their applications classified into this level. The ones under level 3 shall be reclassified into level 2 for banning the use of them in phases, depending on the availability of alternative parts or materials that satisfy the intended uses.

(d) 排外項目：法令的規定對象外，或在現階段沒有代替技術方案的物質和用途部位。

Exemption: The substances and their applications classified as exemption are those not regulated by or exempted from laws, or excepted from the HS because of the unavailability of adequate alternative parts and materials that satisfy the intended uses.

5.2.3 均質材料：由一種或多種材料組成，用機械方法不能再分成不同成份的物料。均質材料有均勻的成份構成或形態。

Homogeneous Materials: mean that the smallest unit of a material that can not be separated through mechanical means. Homogeneous Materials shall be the same in every portion of a material.

5.2.4 含有：係指無論有意或無意，在產品裡使用的材料、零部件、原物料中，添加、填充、混入或黏附該物質(包括在產品中無意地加入該物質，或製程中無意加入，均視為含有)。

Contained: An “Contained” is a situation in which a substance is added to, is blended with, fills up, or adheres to;

(a) The parts or devices employed in products, or

(b) The materials used for the parts or devices, regardless if the situation is intentionally created or not.(When a substance is unintentionally contained in, or added to processing process, this situation is also regarded as “Contained”.)

There are substance called Doping Agents) that are intentionally added to manufacture semiconductor devices, etc. They are not



5.2.5 意圖添加：為了達到特定的特性、外觀、性質、屬性和品質，通過有意圖的添加、填充、混入、和附著，使物質殘留在產品的零部件、設備以及其所使用的材料中。

Intentionally added: "Intentionally added" means a situation where a substance is contained in the part, device, or its materials because of deliberate addition, filling, blending, or adhesion, in order to provide a specific characteristic, appearance, property, attribute or quality.

(a) 存在於天然材料中；在精製過程中，技術上不能完全去除的物質(如天然雜質)，或在合成反應過程中產生，而在技術上不能完全去除的物質，不屬於「意圖添加」。

There are substances called "impurities," the name of which is used to distinguish them from main materials. If they are used for the purpose of changing the characteristics of a material such as alloy and plastic, they are treated as "Intentionally added."

(b) 製造半導體設備等的滲雜物，在半導體設備裡是極其微量的殘存時，不屬於「意圖添加」。

Dopants (Doping Agents) for production of semiconductor devices, etc. are not treated as "Intentionally added" if present in the devices in a very small amount.

5.2.6 無鹵：材料的均質材料中溴及氯的最大濃度為 900ppm，且溴與氯之總和最大濃度為 1500ppm。

Halogen Free: The allowable concentration of Br or Cl is under 900ppm respectively, and the total concentration of Br and Cl is under 1500ppm.

5.2.7 禁止供貨時期：禁止向久元供應原物料、半成品和包裝材料的時期。

Effective date of the ban on the delivery: This indicates the date on or after which YTEC won't accept the parts and/or materials specified in the corresponding column of Attachment 1.

5.2.8 SVHC：REACH 之高度關注物質。包括：

Substance of High Very Concern for REACH, includes:

(a) CMR：1 類和 2 類的致癌性致畸性

Carcinogenic, Mutagenic or toxic to Reproduction

(b) PBTs：持久性、生物蓄積性物質

Persistent Bioaccumulative Toxic substances

(c) vPvB：高持久性、高生物蓄積性物質

Very Persistent and very Bioaccumulative substances

(d) Eds：內分泌干擾物質

Endocrine Disrupting Chemicals

5.2.9 安全資料表 SDS：Safety Data Sheet

5.2.10 標準/界限值：管制要求的條件或數值範圍。

Criteria/threshold level: "Criteria/threshold level" is a condition or a numerical value.



5.2.11 衝突礦產：錫(Sn)、鉭(Ta)、鎢(W)、金(Au)、鈷(Co)、鈀(Pd)等金屬來自剛果民主共和國及其鄰近國家受武裝團體控制之礦區所開採皆屬之。

Conflict Mineral: Tin (Sn), Tantalum (Ta), Tungsten (W), Gold (Au), Cobalt (Co), and Palladium (Pd) are drifted from the mines of the Democratic Republic of Congo (DRC) and its neighboring countries.

5.2.12 本文件”供應商”一詞包含使用於產品及服務的材料供應商、治工具供應商、外包商。

Supplier: including the suppliers and outsourcing that provide materials and tools used in products and manufacturing process.

5.3 材料污染風險等級定義 Risk level of pollution for materials and tools :

5.3.1 高風險 High :

(a) 材料依據附件七 IEC/PAS 62596 Annex B 材料風險等級任一物質項目被標示為 H 者(指可能含有超出本規範濃度標準的有害物質)。

Anyone substance of the materials is 'H' class according to attachment 7 'IEC/PAS 62596 Annex B'. It means that the content of HS maybe out of spec..

(b) 製程材料用在 HS 與 HSF 產品混線生產，且有高溫化學反應之虞者。例如烙鐵頭、重工製程使用到所有材料，固定膠、清潔劑、清潔用海綿等輔助材料。

The manufacturing materials and tools that used for HS/HSF mixed line with high temperature and chemical reaction. Such as iron head, materials for rework process, fixing glue, detergent, cleaning sponge.

(c) 未經本公司採購流程之外購品。

Materials and tools were not through YTEC purchasing process.

5.3.2 中風險 Medium :

(a) 材料依據附件七 IEC/PAS 62596 Annex B 材料風險等級未標示為 H 但有任一項標示 M 者(指可能含有超出本規範濃度標準的有害物質)。

Anyone substance of the materials is 'M' class and without 'H' class according to attachment 7 'IEC/PAS 62596 Annex B'. It means that the content of HS maybe out of spec..

5.3.3 低風險 Low :

(a) 此材料依據附件七 IEC/PAS 62596 Annex B 材料風險等級所有物質項目被標示為 L 或 N/A 者。

All substances of the materials are 'L' class or 'N/A' according to attachment 7 'IEC/PAS 62596 Annex B'.

(b) 材料可能含有符合本規範濃度標準的有害物質，且材料以物理性方式接觸產品(包含無法證明有化學反應之疑慮者)、或不會直接接觸產品，而不會影響產品本身 HSF 特性者。例如：包裝材料、切割刀片。

The substance content might meet this spec. and be used in physical process or not touch product directly, and not effect HSF of product. Such as packing materials, blade...etc..



6 安全性 Security :

6.1 無。Nil.

7 程序 Procedure :

7.1 有害物質管理項目：

HS substances list:

	物質名稱 Substances	Level 1	Level 2	Level 3	自有產品 Own	代工 OEM
1	鎘及鎘化合物 Cadmium(Cd) and its compounds	●			V	V
2	鉛及鉛化合物 Lead(Pb) and its compounds	●			V	V
3	汞及汞化合物 Mercury(Hg) and its compounds	●			V	V
4	六價鉻化合物 Hexavalent -Chromium(Cr6+) Compounds	●			V	V
5	多溴聯苯類(PBBs)	●			V	V
6	多溴聯苯醚類(PBDEs) (*SVHC)	●			V	V
7	四溴丙二酚(TBBP-A)	●		●		V
8	六溴環十二烷(HBCDD)	●				V
9	多氯聯苯類 Polychlorinated Biphenyls (PCBs)	●				V
10	多氯萘類(PCNs)	●				V
11	多氯三聯苯 Polychlorinated Terphenyls (PCTs)	●				V
12	短鏈氯代烷烴 Short chain Chlorinated Paraffins(SCCP)	●				V
13	其他有機氯化物 Other Chlorinated organic compounds			●		V
14	其他有機溴化合物 Other Brominated organic compounds			●		V
15	鎳及其化合物 Nickel(Ni) and its compounds	●		●		V
16	砷及其化合物 Arsenic(As) and its compounds	●		●		V
17	三取代基有機錫化合物 Trisubstituted organotin compounds (包含 TBT、TPT)	●				V
18	石棉 Asbestos	●				V



	物質名稱 Substances	Level 1	Level 2	Level 3	自有產品 Own	代工 OEM
19	特定偶氮化合物(*SVHC) Specific Azo compounds	●				V
20	甲醛 Formaldehyde	●				V
21	聚氯乙烯(PVC)及聚氯乙稀混合物 PVC and PVC blends	●		●		V
22	發泡聚苯乙烯 Expanded Polystyrene(EPS)	●		●		V
23	破壞臭氧層物質 Ozone Depleting Substances	●				V
24	氧化鈹 Beryllium oxide	●				V
25	鈹青銅 Beryllium copper			●		V
26	全氟辛烷磺酸鹽 Perfluorooctane sulfonate (PFOS)	●				V
27	全氟辛酸及其鹽及酯 Perfluorooctanoic acid(PFOA) (*SVHC) and individual salts and esters of PFOA	●				V
28	特定鄰苯二甲酸鹽(*SVHC) Specific phthalates (DEHP、DBP、BBP、DIBP)	●		●	V	V
29	特定鄰苯二甲酸鹽(*SVHC) Specific phthalates (DINP、DIDP、DNOP、DNHP、DIHP、DHNUP、DMEP、DIPP、DPP、CAS No. 84777-06-0、CAS No. 776297-69-9、CAS No. 68515-50-4)	●		●		V
30	特定苯並三氮唑 (*SVHC) Specific benzotriazole	●				V
31	鹵化二苯基甲烷 Halogenated diphenyl methanes			●		V
32	氣味物質(二甲苯麝香(*SVHC)及酮麝香) Fragrance Substance(Musk Xylene and Musk Ketone)			●		V
33	硒及其化合物 Selenium and its compounds			●		V
34	鈹及其化合物 Beryllium and its compounds			●		V
35	鉍及其化合物 Bismuth and its compounds			●		V
36	銻及其化合物 Antimony and its compounds			●		V
37	雙酚 A Bisphenol-A			●		V
38	二氯化鈷(*SVHC) Cobalt Dichloride	●		●		V
39	放射性物質【(鈾(U)鈾(Pu)氡(Rn)錒(Am)釷(Th)鉍(CS)銻(Sr)】 Radioactive substances			●		V



	物質名稱 Substances	Level 1	Level 2	Level 3	自有產品 Own	代工 OEM
40	氫氟碳化合物 Hydrofluorocarbon(HFC)、全氟化碳 Perfluorocarbon(PFC)、六氟化硫 (SF6)	●				V
41	富馬酸二甲酯 Dimethylfumarate (DMF)	●				V
42	二丁基錫化合物 Dibutyltin(DBT)	●				V
43	二辛基錫化合物 Dioctyltin (DOT)	●				V
44	硫代甘醇酸異辛酯二正辛基錫(DOTE) (*SVHC) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate			●		V
45	硫代甘醇酸異辛酯二正辛基錫和甲基錫三(巯基乙酸異辛酯)為組成要素的物質 (DOTE 和 MOTE 反應產物)(*SVHC) 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 MOTE)			●		V
46	磷酸三硬脂精(2-氯二乙硫醚) (TCEP)、磷酸三(2-氯丙基)酯(TCPP)、磷酸三(2,3-二氯丙基)酯(TDCPP)	●				V
47	三氧化二砷(*SVHC)、五氧化二砷 (*SVHC)Diarsenic trioxide, Diarsenic pentaoxide	●		●		V
48	硼酸(*SVHC)、特定硼酸鈉(*SVHC)Boric acid, specific sodium borates			●		V
49	對特辛基苯酚/辛基酚(*SVHC) 4-(1,1,3,3-tetramethylbutyl)phenol			●		V
50	二乙二醇二甲醚 或 雙(2-甲氧基乙基)醚 (*SVHC) Bis(2-methoxyethyl) ether			●		V
51	N,N-二甲基乙醯胺(*SVHC) N,N-dimethylacetamide (DMAC)			●		V
52	乙二醇二乙醚 Ethylene glycol dimethyl ether (EGDME)			●		V
53	高氯酸鹽 Perchlorates			●		V
54	鹵素 氯及溴 Halogen- Cl and Br	●				V
55	多環芳烴化合物 (PAH)	●				V



	物質名稱 Substances	Level 1	Level 2	Level 3	自有產品 Own	代工 OEM
	Polycyclic aromatic hydrocarbons					
56	磷酸三(二甲苯)酯(TXP) (*SVHC) Trixylyl phosphate			●		√
57	2-(2H)-苯並三氮唑-2-基)-4,6-雙(1,1-二甲基乙基)苯酚 (UV-320) (*SVHC) 2-benzotriazol-2-yl-4,6-di-tert-butylphenol	●				√
58	2-(2'-羥基-3',5'-二叔戊基苯基)苯並三唑 (UV-328) (*SVHC) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol			●		√
59	REACH SVHC 限用物質要求(REACH SVHC 191 items)	●	●	●		√

7.2 有害物質標準來源 HS standard resourcing :

7.2.1 公司基本標準 YTEC's basic standard :

(a) 自有產品的有害物質標準應符合歐盟 RoHS 指令要求。

Own Product BU should satisfy the requirement of EU RoHS.

(b) 代工事業單位之有害物質標準應符合本規範要求。

OEM Service BU should satisfy the request of this spec..

7.2.2 自有產品銷售地法規：產品開發或銷售評估前，應考量市場銷售地環保法規，故由業務單位依據“法規鑑定管理程序”(YT02-VP-003)進行銷售市場法規鑑定與分析，以確保後續產品能符合當地法規，避免觸法。

Regulations of sale area: Sales unit should gather and analyse regulations according to “Statute Authentication Management Procedure”(YT02-VP-003) before product development and sale planning.

7.2.3 客戶規範：依據“合約審查程序”(YT02-SM-001)及“新專案執行暨品質規劃作業程序”(YT02-QA-020)，於簽訂合約或新客戶導入之前，業務單位應主動與客戶了解，是否有對供應商之有害物質相關規定，以及客戶產品中有害物質使用狀況；若客戶沒有此類規範，業務需主動告知客戶本公司有害物質標準。

Customer's spec.: According to “Contract Review Operation Procedure”(YT02-SM-001) and “New project Fulfillment and Quality Planning and Management Procedure”(YT02-QA-020), Sales unit should communicate HS related rule and HS status in Product with customer before take order or bring in new customer. If customer has no HS request, Sales unit should inform them YTEC's HS standard.

7.3 有害物質管制作業：The control operation of HS:

7.3.1 供應商管制 Supplier and outsourcing control :

(a) 因本公司未設置有害物質專用檢測儀器，材料風險依據 5.3 定義管理，供



應商風險分級方式請參閱“供應商管制程序”(YT02-QA-012)，各風險等級之供應商依據附件一或附件二提交綠色供應商承認資料，以確保供應商綠色製程能力之能符合本公司要求。

YTEC doesn't set HS test instruments and in order to ensure that capability of suppliers and outsourcings could satisfy our request, our risk management for materials and tools is according to 5.3. The risk management for suppliers is according to 'Supplier Control Procedure'(YT02-QA-012). For each risk level of suppliers, YTEC would take control methods and gather HS information referred to attachment 1 or attachment 2.

(a1) 自有產品事業部請參閱附件一自有產品事業部有害物質管制作業表。 Own Product BU please refer to attachment 1 that "Own Product BU – Hazardous Substance Control Worksheet".

(a2) 代工事業部請參閱附件二代工事業部有害物質管制作業表。 OEM Service BU please refer to attachment 2 that "OEM Service BU – Hazardous Substance Control Workshee"t.

(b) 本公司可接受廠商之 XRF 檢測報告，但當檢測結果符合任一項 Br/Cl/Hg/Pb/Cr>700ppm，Cd>70ppm 時，報告判定不允收，供應商需另再送第三檢測單位確認。

YTEC accepts XRF report. If test result of anyone over the spec. (Br/Cl/Hg/Pb/Cr>700ppm, Cd>70ppm，the XRF report would be reject, and the supplier should send the material to third-party confirm.

(c) 供應商產品經品保單位判定屬於有害物質產品時，由品保單位登錄於“有害物質材料清單”(YT03-QA-016-04)。

If the material is HS product after judging, QA unit should register in "HS list"(YT03-QA-016-04).

(d) 本公司收到供應商有發生影響 HSF 品質之零件或材料變更通知時，應重新評估其風險等級。

If supplier or outsourcing informs the change related HSF quality or material, YTEC should estimate the risk level again.

(e) REACH SVHC 限用物質要求：供應商供貨材料或製造過程中若有使用到 REACH 高度關注物質(附件四)，不管濃度為多少皆應主動告知。

The request for REACH SVHC: Supplier should inform YTEC actively if SVHC (see the Attachment 4) would be used in products or production process.

(f) 包裝材料除應符合附件一“有害物質的主要管制對象和禁止供貨時期”規定外，尚需遵守法律規定，並同時符合包裝材料之追加事項(附件五)。

The packaging materials should be conformed with Attachment 1 and the additional rules for packaging materials (Attachment 5).



7.3.2 製程管制作業 Process control：

- (a) 製程污染鑑別：由各流程及作業負責人依“環境考量面管理程序”(YT02-VP-001)做製程汙染評估，鑑別結果填寫於“有害物質鑑別登錄表”(YT02-VP-001-07)。

HS identification of production: The owner of each process flow or operation shall make HS identification and fill the result in “Hazardous Substances Identification Sheet”(YT02-VP-001-07) according to “Environment Aspects Management Procedure”(YT02-VP-001).

- (b) 當有害物質材料或產品進貨時，應加以標示並依各製程有害物質生產管制作業執行。

When material or product that contains HS over standard incoming, YTEC should mark it and follow HS production operation.

7.3.3 客戶產品管制 Customer’ product control：

- (a) 於新客戶及新產品導入前，業務或品保單位即需主動與客戶瞭解客戶產品中有害物質使用狀態。如客戶回覆其產品中含有本規範或客戶規範所訂有害物質，業務或品保單位應將產品品號登錄於“有害物質材料清單”(YT03-QA-016-04)並宣達至工程、採購、資材、製程單位。

Sales or QA unit should confirm the HS status in product with customer before bringing in new customer and new product. If the product has HS over YTEC’s or customer’ standard, Sales or QA unit should register the product name into “HS list”(YT03-QA-016-04) and notice to Engineering, Purchase, Material Management, Production Control, Warehouse, Production, Integration units.

7.3.4 分類、標示 Classification and identification：

- (a) 依據本公司製程型態及產業技術，本公司將產品的有害物質分類如下，並分別標示於流程卡、製令單、材料、產品、設備、治工具、儲存區域上以便於管理：

According to process and industry technology, YTEC would classify the products as below, and take a stamp on run card, order, material label, product label, equipment, tool, and storage area respectively.

- (a1) 綠色產品：有害物質判定結果能符合本規範者，綠色產品不做標示。
Green product: HS status satisfy YTEC’s standard, and not to mark.

- (a2) 含鹵產品：只適用於代工產品。有害物質判定符合 RoHS 但含有超量鹵素(Cl, Br)者，加蓋以下 HS 識別章(含鹵)。

Halogen product: Applicable for OEM service BU. HS status satisfy RoHS but contain Cl or Br that over spec., stamp HS stamp(Halogen).





(a3) 含鉛產品：有害物質判定含有超量鉛(Pb)者，加蓋以下HS 識別章(含鉛)。

Pb product: Contain Pb that over spec., stamp HS stamp(Pb).



(a4) 含砷產品：只適用於代工產品。有害物質判定含有超量砷(As)者，加蓋以下 HS 識別章(含砷)。

As product: Applicable for OEM service BU. Contain As that over spec., stamp HS stamp(As).



(a5) 含其他有害物質：若發現材料或產品含有上述外超量有害物質，則加蓋以下 HS 識別章，並手寫含有物質名稱。

Other HS product: Contain other HS that over spec., stamp HS stamp and write HS name by hand.



7.3.5 有害物質之判定：有害物質之主要管制對象、管制標準和禁止供貨時期，請參閱附件一；若物質含量符合管制標準者則判定為不合格，後續並依不合格管制程序執行。

HS judge,emt: Main targets, controlled criteria and effective date of the ban on the delivery regarding HS should be referred to Attachment 1. The substance content meet to controlled criteria is abnormal and take actions according to nonconforming procedure.

7.3.6 客戶提供之材料尚不依本規範管理。

Materials offered by customer would not be managed with this specification.

7.4 有害物質不合格品管理：The identification of HS and HSF:

7.4.1 異常經品保確定為 HSF 品質不合格時，應依各事業部之不合格品管制程序通知客戶、管理代表及相關單位，進行廠內在製品及庫存品清查與扣留，並依後續處理流程執行。若已出貨至客戶端應追溯出貨批。

If the abnormal events are belonged to HSF quality by QA unit, YTEC should inform customer, management representative and related units, and check the WIP and storage, and hold abnormal products. The shipped products should be traced.

7.4.2 對於 HSF 品質不合格品須於標籤上加蓋 HS 識別章，與一般品質不合格品區隔管理。

For HSF quality non-conforming products, they should be stamped "HS stamp" and YTEC should separate them from general non-conforming products.



7.5 文件管理：Document Management:

7.5.1 不使用有害物質保證書、廠商自我宣告書、有害物質測試報告與 SDS 由品保處儲存管理。

Declaration of banned substances, supplier's self-declared letter, HS test report and SDS are maintained by QA div..

(a) 不使用有害物質保證書(YT03-QA-016-01、YT03-QA-016-02)：

Declaration for Non-use of Hazardous Substances:

(a1) 供應商應詳讀保證書內容，確認無誤後應將保證書加蓋公司大小章，並傳回久元。

Suppliers and subcontractors should read the contents of declaration particularly, and sign and stamp with the shipper/subcontractor's company stamp/seal seal, and send back to YTEC.

(b) 廠商自我宣告書：若供應商無法提供保證書，則應提供供應商之自我宣告書。

If suppliers or subcontractors could not use YTEC's declaration, they could offer their self-declared letter.

(c) SDS：

(c1) 供應商應提交資訊正確之 SDS。

Suppliers or Subcontractors should provide correct MCD/SDS to YTEC.

(c2) 供應商若有物質成分變更需求時，應更新 SDS，並向久元提出工程變更。

If the suppliers or subcontractors have changes of substances or its component, they should update MCD or SDS and issue ECN to YTEC.

(c3) SDS 應法規規定每三年檢討正確性，若有變更予以更新。

YTEC should reviewed the SDS accuracy and update if it has been modified per three years.

(d) 有害物質測試報告：Test report:

(d1) 有害物質第三檢測單位需通過 ISO17025 認證，如 SGS, Intertek 等，有效期限為自測試日期起為一年，到期前二週前提醒供應商需提交有害物質測試報告。

The HS test report should make from the licensed Lab. that certified ISO 17025, ex. SGS, Intertek etc. HS test reports are valid for one year from test date. Before the due, approximately two weeks reminds the supplier to ahead of time provide the HS test report.

(d2) 應客戶特殊要求，半導體製程所使用包材之測試報告，自測試日期起算保存十年。

Customer's special requirement: For semi-conductor process, the test report of packing material should be kept 10 years.



7.5.2 品保單位應判定供應商提供之 HS 證明資料是否符合本規範規格，判定合格之測試報告納入“有害物質測試報告管制一覽表”(YT03-QA-016-03)控管，判定不合格則通知採購單位或生管單位處理，並依各事業部不合格程序處理。

QA unit manage the test reports qualified by “HS Test Report Control List”(YT03-QA-016-03). If report unqualified, QA unit should inform to purchase unit or PC unit and take actions according to Nonconforming procedures.

7.5.3 衝突礦產政策聲明書(YT03-QA-016-05)供應商簽回後由採購單位儲存管理。“Conflict Minerals Policy Declaration”(YT03-QA-016-05) is kept by Purchase unit after signing back.

7.6 衝突礦產：身為良好的企業公民，本公司自當善盡社會責任、尊重人權，並持續關注衝突礦產議題，致力詳實調查供應鏈，要求供應商提供“衝突礦產政策聲明書”(YT03-QA-016-05)並將此要求傳達給其上下游供應商。

Conflict Minerals: As a good corporate citizen, since when the company fulfill social responsibility, respect for human rights, and sustained attention to the conflict minerals issue, to detailed survey of supply chain. YTEC request our supplier provide “Conflict Minerals Policy Declaration”(YT03-QA-016-05) and request its suppliers to notify their upstream and downstream suppliers of such requirements.

7.7 人員能力 Competence：

7.7.1 負責 HSF 作業之相關人員能力要求如下：

The competence of persons for HSF related work is as below:

	工作範圍 Job function	能力要求 Competence
新產品導入負責人 APQP Leader	1.鑑別、瞭解及引用適用的 HSF 法律及客戶要求 Identify, understand, and refer suitable HSF regulations and customers' requirement. 2.依法規或客戶要求準備 HSF 文件 Prepare HSF documented information according to requirement from regulations or customers.	1.了解相關 HSF 法規 Understand HSF regulations and laws 2.了解本規範 Understand this spec.
業務 Sales	1.鑑別、瞭解及引用適用的 HSF 法律及客戶要求 Identify, understand, and refer suitable HSF regulations and customers' requirement. 2.依法規或客戶要求準備 HSF 文件 Prepare HSF documented information according to requirement from regulations or customers.	1.了解相關 HSF 法規 Understand HSF regulations and laws 2.了解本規範 Understand this spec.



	3.與客戶溝通 HSF 符合性 Communicated with customers.	
品保 QA	1.供應商管理，包含 GP 資格認可，適宜時執行 HS 測量 Supplier management, including GP approval and HS measurement. 2.HSF 材料承認 HSF materials approval. 3.與客戶或外部單位溝通 HSF 符合性 Communicated with customers or external units. 4.依法規或客戶要求準備 HSF 文件 Prepare HSF documented information according to requirement from regulations or customers.	1.了解相關 HSF 法規 Understand HSF regulations and laws 2.了解本規範 Understand this spec. 3.具備 QC080000 稽核員資格 Pass the QC080000 auditor qualification
採購 Purchaser	1.供應商管理 Supplier management. 2.與供應商或外部單位溝通 HSF 符合性 Communicated with suppliers or external units.	1.了解相關 HSF 法規 Understand HSF regulations and laws
生管 PC	1.供應商管理 Supplier management. 2.與供應商或外部單位溝通 HSF 符合性 Communicated with suppliers or external units.	2.了解本規範 Understand this spec.
生產 Production	生產流程 HS 風險分析 HS risk identified and analysis for production processes.	了解有害物質鑑別作業並已理解 HS 污染風險 Understand HS identification operation and the risk of HS pollution
研發 RD	1.HSF 產品設計開發 HSF products design and development. 2.HSF 材料承認 HSF materials approval.	1.了解 HSF 產品設計開發程序 Understand HSF design rule. 2.了解相關 HSF 法規 Understand HSF regulations and laws 3.了解本規範 Understand this spec.
HSPM 體系稽核員 HSPM auditor	執行 IECQ QC080000 稽核 IECQ QC080000 auditors	依內部稽核程序 (YT02-QA-005)之 QC080000 內部稽核員要求 Refer to 'Internal Audit Operation Procedure'(YT02-QA-005)



7.7.2 當本程序有變更時，相關人員需重新接受培訓。

If this spec. modified, related persons should read this document.

7.8 其他注意事項 Others：

7.8.1 如果客戶有特定的環境技術標準要求，應遵守最終客戶的要求。

YTEC should meet the final customer's requests if they have specials about environment technical standards.

7.8.2 回收料使用注意事項：使用再生材料時，需符合部品材料規格，應確保其未混入其他化學物質以及未受到 1 級禁限用物質污染。

The attention of recycling materials: When using the recycling materials, YTEC should conform with the material spec. to ensure that didn't mix with other chemicals without control and substances of Level 1.

8 附件 Attachments：

8.1 自有產品事業部有害物質管制作業表(附件一)

Own Product BU – Hazardous Substance Control Worksheet (Attachment 1)

8.2 代工事業部有害物質管制作業表(附件二)

OEM Service BU – Hazardous Substance Control Worksheet (Attachment 2)

8.3 有害物質的主要管制對象和禁止供貨時期(附件三)

Main targets and effective date of the ban on the delivery regarding HS (Attachment 3)

8.4 REACH SVHC 清單(附件四)

REACH SVHC List (Attachment 4)

8.5 包裝材料之追加事項(附件五)

Additional rules for packaging materials (Attachment 5)

8.6 包裝材料明細(附件六)

Packaging Materials List (Attachment 6)

8.7 IEC/PAS 62596 Annex B 材料風險等級(附件七)

Substances Risk of IEC/PAS 62596 Annex B (Attachment 7)

8.8 有害物質不使用保證書(A).....(YT03-QA-016-01)

Declaration for Non-use of Hazardous Substances(A)

8.9 有害物質不使用保證書(B).....(YT03-QA-016-02)

Declaration for Non-use of Hazardous Substances(B)

8.10 有害物質測試報告管制一覽表.....(YT03-QA-016-03)

HS Test Report Control List



8.11 有害物質材料清單.....(YT03-QA-016-04)

HS List

8.12 衝突礦產政策聲明書.....(YT03-QA-016-05)

Conflict Minerals Policy Declaration

8.13AOI/ATE-部件與風險清單.....(YT03-QA-016-06)

AOI/ATE Parts and risk list

9 記錄保存 Record Retention：

9.1 8.8、8.9 由品質系統單位保存至廠商中止交易後 3 日曆年；8.12 由採購單位保存至該供應商資格取消為止；8.11 由品質系統單位持續更新；8.13 由研發單位持續更新。

8.8, 8.9 records would be stored by QS unit at least 3 years after stopping business. 8.12 record would be stored by purchase unit supplier qualification cancelled. 8.11 records would be updated by QS unit continuously. 8.13 records would be updated by QS unit continuously.

自有產品事業部有害物質管制作業表

Own Product BU – Hazardous Substance Control Worksheet

供應商管制項目 Control Item		材料/服務對產品污染等級 Risk Level			對應表單 Form	
		高風險 High	中風險 Medium	低風險 Low		
管制有害物質 HS		Item 7.1 所列自有產品管制物質 HS list in item 7.1				
排外項目 Exemption		請參閱附件三各項管制物質之排外項目 Refer to Attachment 3.				
Green Supplier Approve Data 綠色供應商承認資料	提交保證書 DNHS	◎	◎	X	有害物質不使用保證書(B) DNHS (YT03-QA-016-02)	
	Test Report 測試報告	提交測試報告 Provide?	◎	◎	◎	(註一)(Remark1) (註二)(Remark2)
		檢測項目 Test Item	鉛(Pb)、鎘(Cd)、汞(Hg)、六價鉻(Cr6+)、多溴聯苯(PBB)、多溴聯苯醚(PBDE)、磷苯二甲酸(DEHP)、磷苯二甲酸丁苯酯(BBP)、磷苯二甲酸二丁酯(DBP)、磷苯二甲酸二異丁酯(DIBP)			(註三)(Remark3)
		有效期限 Valid Period	1 年(Year)	3 年(Years)	初次承認時提交 1 次 New Approve	
	SDS	提交 SDS Provide?	化學品必要 Chemicals necessary			
		有效期限 Valid Period	3 年(Years)	3 年(Years)	3 年(Years)	
Supplier Estimate 供應商評鑑	書面評鑑 Paper Audit	1 年 1 次 1 time/1 year	3 年 1 次 3 times/1 year	初次評鑑 New Approve	供應商稽核評鑑表 (YT03-QA-012-01) Supplier audit & evaluate list	
	外包商現場評鑑 Location Audit	3 年 1 次 3 times/1 year	3 年 1 次 3 times/1 year	初次評鑑 New Approve		
Quality Control 品質監控	外包商巡檢 Inspection	1 年 1 次 1 time/1 year	1 年 1 次 1 times/1 year	X	自有產品外包廠系統稽核巡檢表 (YT23-QA-303-02) System Checklist for Own Product Outsourcing	

(註一) 若廠商因故不能提交有效測試報告時，則需提交 SDS，及保證書或自我聲明書。

(Remark1) If supplier couldn't provide valid test report, he should offer Declaration for Non-use of Hazardous Substances or self-declared letter.

(註二) 可接受廠商提交自檢 XRF 報告。(Remark2) Accept supplier's XRF report.

(註三) 2019/7/22 後須包含 DEHP、BBP、DBP、DIBP，在此之前為宣導期。The test report should be included DEHP, BBP, DBP, DIBP after 2019/7/22.

(註四) AOI 各零部件必要提交資料/權責分工與管理對象依據附件"AOI-部件與風險清單"展開。未經本公司採購流程之外購品無法提交保證書，允許以測試報告替代。外包打件廠使用高風險物料者，若簽回保證書即可允收，不要求提供測試報告，但須定期稽核。當產品設計變更/材料變更/外包廠/供應商變更須修正 AOI-部件與風險清單。

(註五) ATE 各零部件必要提交資料/權責分工與管理對象依據附件"ATE-部件與風險清單"展開。未經本公司採購流程之外購品無法提交保證書，允許以測試報告替代。外包打件廠使用高風險物料者，若簽回保證書即可允收，不要求提供測試報告，但須定期稽核。當產品設計變更/材料變更/外包廠/供應商變更須修正 ATE-部件與風險清單。

代工事業部有害物質管制作業表

OEM Service BU – Hazardous Substance Control Worksheet

供應商管制項目 Control Item		代工製程材料/服務之污染等級 Risk Level			對應表單 Form	
		高風險 High	中風險 Medium	低風險 Low		
管制有害物質 HS		Item 7.1 所列代工管制物質 HS list in item 7.1				
排外項目 Exemption		1. Tube：排除管制聚氯乙稀(PVC0 及氯(C) 2. Tape(SPV-224)：排除管制聚氯乙稀(PVC)、氯 (Cl)、及 DEHP				
Green Supplier Approve Data 綠色供應商承認資料	提交保證書 DNHS	◎	◎	X	有害物質不使用保證書(A) DNHS (YT03-QA-016-01)	
	Test Report 測試報告	提交測試報告 Provide?	◎	◎	◎	(註一)(Remark1) (註二)(Remark2)
		檢測項目 Test Item	1. 鉛(Pb)、鎘(Cd)、汞(Hg)、六價鉻(Cr6+)、多溴聯苯(PBB)、多溴聯苯醚(PBDE)、氯(Cl)、溴(Br) 磷苯二甲酸(DEHP)、磷苯二甲酸丁苯酯(BBP)、磷苯二甲酸二丁酯(DBP)、磷苯二甲酸二異丁酯(DIBP) 2. 塑膠類包裝材料需加測聚氯乙稀 Platic packing material: add PVC			(註三) (Remark3)
	Valid Period	1 年(Year)	1 年(Year)	1 年(Year)		
	SDS	提交 SDS Provide?	化學品必要 Chemicals necessary			
		Valid Period	3 年(Years)	3 年(Years)	3 年(Years)	
Supplier Estimate 供應商評鑑	書面評鑑 Paper Audit	1 年 1 次 1 time/1 year	3 年 1 次 3 times/1 year	初次評鑑 New Approve	供應商稽核評鑑表 (YT03-QA-012-01) Supplier audit & evaluate list	
	外包商現場評鑑 Location Audit	3 年 1 次 3 times/1 year	3 年 1 次 3 times/1 year	初次評鑑 New Approve		
Quality Control 品質監控	外包商巡檢 Inspection	1 年 1 次 1 time/1 year	1 年 1 次 1 times/1 year	X	供應商稽核評鑑表 (YT03-QA-012-01) Supplier audit & evaluate list	

(註一) 若廠商因故不能提交測試報告時，則需提交 SDS，及保證書或自我聲明書。

(Remark1) If supplier couldn't provide valid test report, he should offer MSDS, Declaration for Non-use of Hazardous Substances or self-declared letter.

(註二) 可接受廠商提交自檢 XRF 報告。(Remark2) Accept supplier's XRF report.

(註三) 2019/7/22 後須包含 DEHP、BBP、DBP、DIBP，在此之前為宣導期。The test report should be included DEHP, BBP, DBP, DIBP after 2019/7/22.

有害物質的主要管制對象和禁止供貨時期

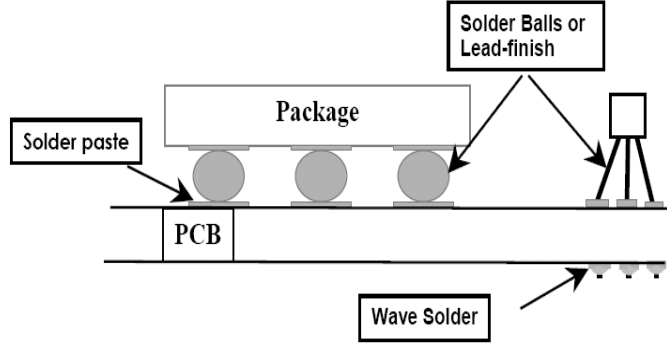
Main targets and effective date of the ban on the delivery regarding HS

物質名稱 Substances		鎘以及鎘化合物 Cadmium(Cd) and its compounds
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 塑膠料(包含橡膠)。 Plastics (including synthetic rubbers).	1. 均質材料中 Cd ≥ 100ppm。 100 ppm or more of the cadmium in homogeneous materials.
	2. 塗料。 Paints.	
	3. 油墨。 Inks.	
Level 1	4. 焊料。 Solders.	1. Cd > 20ppm.
	5. 上述以外所有用途。 All applications other than the above.	1. 均質材料中 Cd ≥ 100ppm。 100 ppm or more of the cadmium in homogeneous materials.
Level 1	6. 產品包裝材料請參照附件四。 (See Attachment 4 for packaging components and materials.)	
	排外項目 Exemption	<p>1. 電氣觸點中的鎘及其化合物。 Cadmium and its compounds in electrical contacts.</p> <p>2. 濾光玻璃及作為反射率標準物質的玻璃中含有的鎘。 Cadmium in filter glasses and glasses used for reflectance standards.</p> <p>3. 用於歐盟 RoHS 指令附件 I 中定義的第 1 類至第 7 類和第 10 類設備的反射標準所使用的濾光片和玻璃中的鎘(有效期至 2018 年 7 月 5 日) Cadmium in filter glasses and glasses used for reflectance standards used for equipment classified as category 1 to 7 and 10 as defined in Annex I of EU RoHS Directive (Valid until July 5, 2018)</p> <p>4. 歐盟 RoHS 指令附件 I 中定義的分類為 1 至 7 和 10 類設備的醒目濾光器玻璃類型中的鎘(自 2018 年 7 月 6 日起生效); 不包括符合歐盟 RoHS 指令附件 III 第 39 點的申請。 Cadmium in striking optical filter glass types used for equipment classified as category 1 to 7 and 10 as defined in Annex I of EU RoHS Directive (Valid from July 6, 2018); excluding applications falling under point 39 of the Annex III of EU RoHS Directive</p> <p>5. 歐盟 RoHS 指令附件 I 中定義的分類為 1 至 7 和 10 類設備的反射標準使用的釉料中的鎘(自 2018 年 7 月 6 日起生效)。 Cadmium in glazes used for reflectance standards used for equipment classified as category 1 to 7 and 10 as defined in Annex I of EU RoHS Directive (Valid from July 6, 2018).</p>
測定標準 Standard for measurement	<p>IEC 62321 Cd 的測試方法: Measurement methods as IEC 62321</p> <p>標準裝置採用: Instrument:</p> <p>1. 感應耦合等離子體放射光譜儀(ICP-AES、ICP-OES); Inductively Coupled Plasma-Optical (Atomic) Emission Spectroscopy</p> <p>2. 原子吸收光譜儀(AAS); Atomic Absorption Spectroscopy</p> <p>3. 感應耦合等離子體質譜儀(ICP-MS)。</p>	



物質名稱 Substances	鎘以及鎘化合物 Cadmium(Cd) and its compounds	
	對象 Target	標準/界限值 Criteria/threshold levels
	Inductively Coupled Plasma-Mass Spectroscopy	

物質名稱 Substances	鉛及鉛化合物 Lead(Pb) and its compounds	
	對象 Target	標準/界限值 Criteria/threshold levels
Level 1	1. 塑膠料(包含橡膠)。 Plastics (including synthetic rubbers). 2. 塗料。 Paints. 3. 油墨。 Inks.	1. 均質材料中 Pb > 1000ppm。 More than 1000 ppm (or 0.1 wt%) of the lead in homogeneous materials.
	4. 上述以外所有用途。 All applications other than the above. 5. 產品包裝材料請參照附件四。 (See Attachment 4 for packaging components and materials).	1. 均質材料中 Pb > 1000 ppm。 1000 ppm or more of the lead in homogeneous materials.
	6. 主要用於 12 歲以下兒童的消費品零部件和材料 Parts and materials for consumer products designed or intended primarily for children 12 years of age or younger	1. 產品中總鉛含量為 0.01wt(100ppm) 0.01 wt% (100 ppm) of total Pb in product.
	7. 玩具及兒童產品的塗料或表面塗層 Paint and similar surface coatings of toys and other articles intended for use by children	1. 表面塗層中鉛含量為 0.009wt%(90ppm) 0.009 wt% (90 ppm) of total Pb in surface coating material.
	8. 熱硬化性/熱可塑性樹脂覆蓋的電線，電纜或導線(包括插頭，連接器) Cables/cords (including plug and connector) with thermoset or thermoplastic coatings	1. 表面覆蓋層中鉛含量 0.03wt%(300ppm) 0.03 wt% (300 ppm) of total Pb in surface coating material
排外項目 Exemption	1. 零件、裝置的連接用高熔點用途焊錫(鉛為 85 wt% 以上的有鉛鉛錫)； High melting temperature type solders (i.e. lead based alloys containing 85 wt% by weight or more lead). 2. 光學玻璃、濾光玻璃； Optical glass, filter glass. 3. 用於顯像管的玻璃材料； Glass of cathode ray tubes. 4. 使用玻璃或玻璃基質化合物、陶瓷或陶瓷基質化合物的電子元件(例如：壓電陶瓷元件)，但含鉛的介電陶瓷電容器除外； 電子零部件中使用的玻璃材料，包括電阻、導電膏(銀膏或銅膏)、玻璃料、黏接劑、密封膠(Sealant)等； Glass, glass matrix compound, ceramic or ceramic matrix compound, which is used in electrical and electronic components (e.g. piezoelectronic devices).	

物質名稱 Substances	鉛及鉛化合物 Lead(Pb) and its compounds	
	對象 Target	標準/界限值 Criteria/threshold levels
	<p>Note that dielectric ceramic in capacitors is excluded.</p> <p>5. 覆晶構裝中半導體晶片與承載電路板間電性訊號連接用之錫錫(包含IC內部焊接用凸塊(Bump)下面使用之焊錫膏)。 Solder to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages.</p> <p>6. 插接式連接系統(焊接式連接器除外)，如插接腳之表面鍍層。 註：焊錫：依 JEDEC STANDARD _Marking, Symbols, and Labels for Identification of Lead (Pb) Free Assemblies, Components, and Devices 以下包含：solder paste、wave solder、solder balls or lead-finish.</p> <div data-bbox="571 757 1241 1099" data-label="Diagram">  <p>The diagram illustrates various soldering techniques. It shows a 'Package' on a 'PCB' with 'Solder paste' applied to the interface. 'Wave Solder' is shown as a layer on the PCB. 'Solder Balls or Lead-finish' are shown as discrete components on the PCB.</p> </div> <p>7. 大於 125V AC 或 250V DC 額定電壓的電容器之介電陶瓷。 Dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher.</p> <p>8. 陰極射線管中的鉛含量。 Lead in glass of cathode ray tubes.</p> <p>9. 重量比不超過 0.2wt% 的螢光管玻璃中的鉛含量。 Lead in glass of fluorescent tubes not exceeding 0.2% by weight.</p> <p>10. 在鉛含量 0.35wt% 以下的機械加工為目的的鋼材及鍍鋅鋼中，作為合金成份的鉛。 Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight.</p> <p>11. 在鉛含量為 0.4wt% 以下的鋁材中，作為合金成份的鉛。 Lead as an alloying element in aluminium containing up to 0.4% lead by weight.</p> <p>12. 鉛含量為 4wt% 以下的銅合金。 Copper alloy containing up to 4% lead by weight.</p> <p>13. 集成電路或分離式半導體(單功能半導體)的電容器部件中使用的 PZT 介電陶瓷材料中的鉛。 Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors.</p> <p>14. 金屬陶瓷微調電位器構成要素中的鉛。 Lead in cermet-based trimmer potentiometer elements</p> <p>15. 用於硼矽玻璃瓷漆的印刷油墨中的鉛。 Lead in Printing Ink for Borosilicate Glass Enamel.</p>	
測定標準 Standard for	IEC 62321 Pb 的測試方法：Measurement methods as IEC 62321 標準裝置採用：Instrument:	

物質名稱 Substances		鉛及鉛化合物 Lead(Pb) and its compounds	
		對象 Target	標準/界限值 Criteria/threshold levels
measurement	1. 感應耦合電子原子放射光譜儀(ICP-AES, ICP-OES) ; Inductively Coupled Plasma-Optical (Atomic) Emission Spectroscopy 2. 原子吸收光譜儀(AAS) ; Atomic Absorption Spectroscopy 3. 感應耦合等離子質譜儀(ICP-MS) 。 Inductively Coupled Plasma-Mass Spectroscopy		

物質名稱 Substances		汞及汞化合物 Mercury(Hg) and its compounds	
		對象 Target	標準/界限值(*) Criteria/threshold levels
Level 1	1. 所有用途。 All applications other than the above. 2. 產品包裝材料請參照附件四。 (See Attachment 4 for packaging components and materials.		1. 有意圖添加。 Intentionally added. 2. 均質材料中 Hg \geq 1000ppm 。 More than 1000 ppm (or 0.1 wt%) in the parts.
排外項目 Exemption	1. 冷陰極螢光燈管(CCFL)及外置電極螢光燈(EEFL) : Mercury in cold cathode fluorescent lamps (CCFL) and external electrode fluorescent lamps (EEFL): 長度 \leq 500mm, 每根汞含量小於 3.5mg 。 Short length (not over 500 mm): Not exceeding 3.5 mg of mercury per lamp 長度 $>$ 500mm, \leq 1500mm, 每根汞含量小於 5mg 。 Medium length (over 500 mm and not over 1500 mm): Not exceeding 5 mg of mercury per lamp. 長度 $>$ 1500, 每根汞含量小於 13mg 。 Long length (over 1500 mm): Not exceeding 10 mg of mercury per lamp 2. 高壓氣體放電管(幻燈機燈管等)。 Mercury in high-pressure gas discharge lamps (e.g. projector lamps)		
測定標準 Standard for measurement	IEC 62321 Hg 的測試方法: Measurement methods as IEC 62321 標準裝置採用: Instrument: 1. 感應耦合電子原子放射光譜儀(ICP-OES) ; Inductively Coupled Plasma-Optical (Atomic) Emission Spectroscopy 2. 原子吸收光譜儀(AAS) ; Atomic Absorption Spectroscopy 3. 原子螢光光譜儀(AFS) ; Atomic Emission Spectrometer 4. 感應耦合等離子質譜儀(ICP-MS) 。 Inductively Coupled Plasma-Mass Spectroscopy.		

(*) 標準/界限值「有意圖添加」和數值兩者若同時要求時, 則都要滿足。

When "Intentionally added" and a numerical value are shown in "Criteria/threshold levels", both of them shall be satisfied.

物質名稱 Substances		六價鉻化合物 Hexavalent -Chromium(Cr6+) Compounds
對象 Target		標準/界限值(*) Criteria/threshold levels
Level 1	1. 電鍍、化學轉化處理等的表面處理(螺絲、銅板等)。 Surfaces of screws, steel sheets, etc. that are processed with plating or conversion coating.	1. 殘留在被處理部位。 Residue in the processed surface.
	2. 天然皮革零部件及材料。 Natural leather parts and materials.	1. 乾燥後皮革材料中 Cr6+ \geq 3ppm。 3 ppm (or 0.0003 wt%) or more of the dry weight of the natural leather materials
	3. 上述以外所有用途。 All applications other than the above. 4. 產品包裝材料請參照附件四。 (See Attachment 4 for packaging components and materials.	1. 有意圖添加。 Intentionally added. 2. 均質材料中 Cr6+ \geq 1000ppm。 More than 1000 ppm (or 0.1 wt%) in the parts.
測定標準 Standard for measurement	1. 針對金屬部位, 使用紫外-可見光吸收光譜儀(UV-VIS)(按照 IEC62321 或 ISO3613) 執行檢定, 量測結果需為"Negative"或"Not Detected"。此外針對含有金屬鍍層的零件, 不接受以 EPA3060A 進行檢測。 For metal parts, it could be measured with UV-VIS (based on IEC 62321 or ISO 3613), and the measured result should be "Negative" or "Not Detected". It would not accept to be measured with EPA3060A. 2. 針對電子零件、塑膠材料(包含橡膠)等, 使用紫外-可見光吸收光譜儀(UV-VIS) (依照 EPA3060A 或者 IEC62321)執行含量檢定, 允許濃度為 1000ppm 以下。以上述鉛、鎘、汞之量測方法(不含 AAS)所測得的總鉻值若低於 1000ppm, 同屬符合六價鉻之含量濃度標準。 For electronic devices and plastics (including rubber), they could be measured with UV-VIS (based on EPA3060A or IEC 62321), and be allowed under 1000 ppm. The total content of Cr that be measured with as the method of Pb, Cd, Hg but without AAS should be under 1000 ppm. 3. 天然皮革材料中六價鉻的分析方法如下: The methods for natural leather materials are as follows. (1) EN ISO 17075 (2) IULTCS/IUC18(conform with ISO 17075:2007)	

(*) 標準/界限值, 「意圖添加」和數值兩者若同時要求時, 則都要滿足。

When "Intentionally added" and a numerical value are shown in "Criteria/threshold levels", both of them shall be satisfied.

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物質名稱 Substances		多溴聯苯類(PBBs)
對象 Target		標準/界限值(*) Criteria/threshold levels
Level 1	1. 所有用途。 All uses.	1. 有意圖添加。 Intentionally added. 2. 均質材料中，含有超過 1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) in the parts
測定標準 Standard for measurement	使用 GC/MS (使用 IEC 62321 的 PBB 檢測方法)執行含量檢定。 Measured with GC/MS (IEC 62321 PBB testing method).	

(*) 標準/界限值，「有意圖添加」和數值兩者若同時要求時，則都要滿足。

When "Intentionally added" and a numerical value are shown in "Criteria/threshold levels", both of them shall be satisfied.

物質名稱 Substances		包含十溴聯苯醚(DecaBDE) (*SVHC)的多溴聯苯醚類(PBDEs)
對象 Target		標準/界限值(*) Criteria/threshold levels
對象：CAS No. 1163-19-5		
Level 1	1. 所有用途。 All uses.	1. 有意圖添加。 Intentionally added. 2. 均質材料中，含有超過 1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) in the parts
測定標準 Standard for measurement	使用 GC/MS (使用 IEC 62321 的 PBDE 檢測方法)執行含量檢定。 Measured with GC/MS (IEC 62321 PBDE testing method).	

(*) 標準/界限值，「有意圖添加」和數值兩者若同時要求時，則都要滿足。

When "Intentionally added" and a numerical value are shown in "Criteria/threshold levels", both of them shall be satisfied.

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物質名稱 Substances		四溴丙二酚(TBBP-A)	
		對象 Target	標準/界限值 Criteria/threshold levels
Level 1	1. 各式用途，除了印刷電路板、線材及連結器以外。 All uses and except PCB, cable, and connector.		1. 材料中，含有超過 1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) in the parts
Level 3	1. 印刷電路板、線材及連結器。 PCB , cable, and connector.		
測定標準 Standard for measurement	使用 GC/MS、GC/ECD(如 DIN 53313)執行含量檢定。 Measured with GC/MS, GC/ECD (ex. DIN 53313).		

物質名稱 Substances		六溴環十二烷(HBCDD) (*SVHC)	
		對象 Target	標準/界限值 Criteria/threshold levels
對象：CAS No. 25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8, 4736-49-6, 65701-47-5, 138257-17-7, 138257-18-8, 138257-19-9, 169102-57-2, 678970-15-5, 678970-16-6, 678970-17-7			
Level 1	1. 所有用途。 All uses.		1. 材料中，含有超過 100ppm(0.01wt%)。 More than 100 ppm (or 0.01 wt%) in the parts.
測定標準 Standard for measurement	使用 GC/MS、GC/ECD(如 DIN 53313)執行含量檢定。 Measured with GC/MS, GC/ECD(ex. DIN 53313).		

物質名稱 Substances		多氯聯苯(PCB) Polychlorinated Biphenyls (PCBs)	
		對象 Target	標準/界限值 Criteria/threshold levels
Level 1	1. 所有用途。 All uses.		1. 有意圖添加。 Intentionally added. 2. 材料中含有 50ppm(0.005wt)以上(含)。 More than 50 ppm (or 0.005 wt%) in the parts
測定標準 Standard for measurement	使用氣相層析質譜儀(GC/MS)、氣相層析電子捕捉器(GC/ECD)(如 EPA8082)執行含量檢定。 Measured with GC/MS, GC/ECD(ex. EPA8082).		

物質名稱 Substances		多氯奈(PCN)	
對象 Target		標準/界限值 Criteria/threshold levels	
Level 1	1. 所有用途。 All uses.	1. 有意圖添加。 Intentionally added.	
測定標準 Standard for measurement	使用氣相層析質譜儀(GC/MS)、氣相層析電子捕捉器(GC/ECD)(如 EPA8082)執行含量檢定。 Measured with GC/MS, GC/ECD(ex. EPA8082).		

物質名稱 Substances		多氯三聯苯(PCTs) Polychlorinated Terphenyls (PCTs)	
對象 Target		標準/界限值 Criteria/threshold levels	
Level 1	1. 所有用途。 All uses.	1. 有意圖添加。 Intentionally added. 2. 材料中含有 50ppm(0.005wt)以上(含)。 More than 50 ppm (or 0.005 wt%) in the parts	
測定標準 Standard for measurement	使用氣相層析質譜儀(GC/MS)、氣相層析電子捕捉器(GC/ECD)(如 EPA8082)執行含量檢定。 Measured with GC/MS, GC/ECD(ex. EPA8082).		

物質名稱 Substances		短鏈氯代烷烴(SCCP)	
對象：碳鏈長為 10-13 之短鏈型氯代烷烴			
對象 Target		標準/界限值 Criteria/threshold levels	
Level 1	1. 所有用途。 All uses.	1. 有意圖添加。 Intentionally added. 2. 材料中，含有超過 1000ppm(0.1wt)。 More than 1000 ppm (or 0.1 wt%) of the materials.	
測定標準 Standard for measurement	使用 GC/MS(如 EPA8082)執行含量檢定。 Measured with GC/MS (ex. EPA8082).		

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物質名稱 Substances		其他有機氯化物(CFR) Other Chlorinated organic compounds (TECP、TCPP、TDCPP 除外)	
對象 Target		標準/界限值 Criteria/threshold levels	
Level 3	1. 用於印刷電路板使用的阻燃劑等。 Flame retardants used for printed wiring board laminate.	1. 層板中，含有超過 900ppm(0.1wt)。 More than 900 ppm (0.09%) chlorine content by weight in the laminate	
	2. 上述以外塑料零部件的阻燃劑和增塑劑。 Flame retardants or plasticizers contained in plastic parts other than the above	2. 塑料材料中氯占 0.1wt%(1000ppm) 0.1 wt% (1000 ppm) chlorine in plastic materials	
允許濃度 Allowable concentration	Cl < 900ppm		

物質名稱 Substances		其他有機溴化合物(BFR) Other Brominated organic compounds (PBB 類、PBDE 類、HBCDD 類除外)	
對象 Target		標準/界限值 Criteria/threshold levels	
Level 3	1. 印刷電路板中阻燃劑之用途。 Flame retardants used for printed wiring board laminate.	1. 層板中，含有超過 900ppm(0.1wt)。 More than 900 ppm (0.09%) chlorine content by weight in the laminate	
	2. 上述以外塑膠料的阻燃劑。 Flame retardants or plasticizers contained in plastic parts other than the above.	2. 塑料材料中溴占 0.1wt%(1000ppm) 0.1 wt% (1000 ppm) chlorine in plastic materials	
允許濃度 Allowable concentration	Br < 900ppm		

物質名稱 Substances		鎳及其化合物 Nickel(Ni) and its compounds
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 手機中可能長期接觸皮膚的零部件。 Parts and materials for mobile phone, where prolonged skin contact is expected	1. 0.28 µg/cm ² /week (溶出量) 0.28 µg/cm ² /week (release concentration)
Level 3	1. 用於可能長期接觸皮膚的產品的零部件和材料。 All, where prolonged skin contact is expected	1. 有意圖添加。 Intentionally added.
允許濃度 Allowable concentration	標準值(排放濃度)：採用如下其中一種方法 Reference value (emission content): Obtain the value by any one of the following methods. 1. 使用 ICP-MS(按照 EPA3052 或 EPA3050B)執行含量檢定。 Measured with ICP-MS (EPA3052 or EPA3050B). 2. 若使用含有金屬鎳或鎳合金物質作為產品外露部位之最外層表面處理(如電鍍)、塗層等用途，應同時以 AAS(按照 EN1811)執行釋出量之檢定，允許濃度為 0.2ug/cm ² /week 以下。 If Nickel be used for the heading of the surface on the exposed position of the product, the parts should be measured with AAS (based on EN1811), and be allowed under 0.2ug/cm ² /week.	

物質名稱 Substances		砷及其化合物 Arsenic(As) and its compounds
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 半導體元件、顏料、塗料、摻雜質、阻燃劑、消泡劑。 Semiconductor materials, paint, impurity used, flame retardant, antifoam agent.	1. 有意圖添加。 Intentionally added. 2. 材料中，含有超過 100ppm(0.01wt) More than 100 ppm (0.01 wt%) in materials.
Level 3	1. 半導體砷離子植入製程(含使用之高純度 AsH ₃ 和 TEASAT)。 The arsenionization of semiconductor process.	
測定標準 Standard for measurement	使用 ICP-OES、ICP-MS 或 AAS(按 EPA3052 或 EPA3050B)執行檢定。 Measured with ICP-OES, ICP-MS, or AAS(EPA3052 or EPA3050B).	

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物質名稱 Substances		三取代基有機錫化合物 (包含 TBT, TPT) Trisubstituted organotin compounds
對象：不包含金屬錫、錫合金、錫電鍍、錫無機化合物 Metal tin, tin alloys, tin plating and tin inorganic compounds do not fall under this category		
對象 Target		標準/界限值(*) Criteria/threshold levels
Level 1	1. 所有用途。 All uses	1. 有意圖添加。 Intentionally added. 2. 材料中，含有超過 1000ppm(0.1wt) More than 1000 ppm (or 0.1 wt%) of the tin contained in materials.
測定標準 Standard for measurement	使用 GC/MS(如 DIN 38407)執行含量檢定。 Measured with GC/MS (ex. DIN 38407)	

(*) 標準/界限值，「有意圖添加」和數值兩者若同時要求時，則都要滿足。

When "Intentionally added" and a numerical value are shown in "Criteria/threshold levels", both of them shall be satisfied.

物質名稱 Substances		石棉 Asbestos
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 所有用途。 All uses.	1.有意圖添加。 Intentionally added.
測定標準 Standard for measurement	使用傅立葉轉換紅外線光譜儀(FT-IR)執行含量檢定。 Measured with FT-IR.	

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物質名稱 Substances		特定偶氮化合物(*SVHC) Specific Azo compounds
對象：REACH 法規附件 XVII 中引用的試驗法進行分解，生成下表特定胺化合物的偶氮化合物，以及下表特定胺化合物 Azodyes that form any of the amine compounds listed in below table through the decomposition methods cited in REACH Regulation (EC) No 1907/2006 / Annex XVII and amine compounds in below table.		
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 纖維、布料、皮革材料中的添加劑。 Additives of textiles and leathers.	1. 材料中，含有超過 30ppm(0.003wt%)。 More than 30 ppm(0.003wt) of the parts.
測定標準 Standard for measurement	試驗法：(參考) Test method: 分解偶氮化合物、萃取胺的方法有： 1. 纖維、布料：EN 14362-1:2012、EN 14362-2:2012(4-氨基偶氮苯) For textiles: EN 14362-1:2012, EN 14362-2:2012 for 4-aminoazobenzene 2. 皮革材料：EN ISO 17234-1:2010、EN ISO 17234-2:2011(4-氨基偶氮苯) For leather: EN ISO 17234-1:2010、EN ISO 17234-2:2011 for 4-aminoazobenzene	

特定胺化合物一覽表
List of specific amine compounds

CAS No.	特定胺名稱
92-67-1	4-氨基聯苯(*SVHC) 4-aminodiphenyl
92-87-5	聯苯胺 benzidine
95-69-2	4-氯鄰甲苯胺；4-氯-2-甲基苯胺 4-chloro-o-toluidine; 4-chloro-2-methylaniline
91-59-8	2-萘胺 2-naphthylamine
97-56-3	鄰氨基偶氮甲苯(*SVHC) o-aminoazotoluene
99-55-8	2-氨基-4-硝基甲苯；5-硝基鄰甲苯胺 2-amino-4-nitrotoluene; 5-nitro-o-toluidine
106-47-8	4-氯苯胺 p-chloroaniline
615-05-4	2,4-二氨基苯甲醚 2,4-diaminoanisole
101-77-9	4,4'-亞甲基二苯胺；4,4'-二氨基二苯甲烷 4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline
91-94-1	3,3'-二氯聯苯胺 3,3'-dichlorobenzidine
119-90-4	3,3'-二甲氧基聯苯胺 3,3'-dimethoxybenzidine
119-93-7	3,3'-二甲基聯苯胺 3,3'-dimethylbenzidine
838-88-0	3,3'-二甲基-4,4'-二氨基二苯甲烷； 4,4'-二氨基-3,3'-二甲基二苯基甲烷(*SVHC) 3,3'-dimethyl-4,4'-diaminodiphenylmethane; 4,4'-diamino-3,3'-diphenylmethane
120-71-8	5-甲基鄰茴香甲胺；2-甲氧基-5-甲基苯胺(*SVHC) p-cresidine; 6-methoxy-m-toluidine
101-44-4	4,4'-二氨基-3,3'-二氯二苯甲烷 4,4'-methylene-bis-(2-chloroaniline)
101-80-4	4,4'-二氨基聯苯醚(*SVHC) 4,4'-oxideaniline

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CAS No.	特定胺名稱
139-65-1	4,4'-二氨基二苯硫醚 4,4'-thiodianiline; 4,4'-diaminodiphenylsulfide
95-53-4	鄰甲苯胺(*SVHC) o-toluidine
95-80-7	2,4-二氨基甲苯(*SVHC) ; 4-甲基-間-苯二胺 2,4-toluylenediamine; 4-methyl-m-phenylenediamine
137-17-7	2,4,5-三甲基苯胺 2,4,5-trimethylaniline
90-04-0	鄰甲氧基苯胺 o-anisidine
60-09-3	4-氨基偶氮苯(*SVHC) 4-aminoazobenzene

物質名稱 Substances		甲醛 Formaldehyde
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 適用於銷售產品本體及其包裝等用途，如纖維板、木屑板或夾合板等作成之木工產品。(例如：揚聲器、機架本體) The wooden products made from fiberboard, particleboard, or plywood, which are employed in products (e.g. speakers and racks)	1. 如下所示。 The details are as follows.
	2. 織物(布料，紡織品) Textiles (fabric, textile)	2. 織物材料中佔0.0075%重量(75ppm) 0.0075 wt% (75 ppm) of textiles material
允許濃度 Allowable concentration	標準值(排放濃度)：採用如下其中一種方法 Reference value (emission content): Obtain the value by any one of the following methods.	
	1. 密閉腔室測試法 Chamber method 於 12m ³ 、1 m ³ 、或者 0.0225 m ³ 之氣密試驗腔體中試驗，於空氣中的濃度在 0.1ppm(0.124mg/m ³)以下(依照 EN717-1)。 Concentration in the air: Equal to or less than 0.1ppm (or 0.124 mg/m ³) in an air-tight test chamber whose volume is 12m ³ , 1 m ³ , or 0.0225 m ³ .	
	2. 穿孔器測試法 Perforator method	
	a. 沒有表面處理過之 100g 木屑板，其量測濃度於 6.5mg 以下(6 個月的量測平均值)。 Equal to or less than 6.5 mg in 100g of a particleboard without a surface treatment (the average value during six months).	
	b. 沒有表面處理過之 100g 纖維板，其量測濃度於 7.0mg 以下(6 個月的量測平均值)。 Equal to or less than 7.0mg in 100g of a fiberboard without a surface treatment (the average value during six months)	
	c. 沒有表面處理過之 100g 木屑板或纖維板，其量測濃度於 8.0 以下(依照 EN120 的 1 次測定值)。 Equal to or less than 8.0mg in 100g of a particleboard/fiberboard without a surface treatment (the value derived from the one-time measurement based on EN120)	
	3. 乾燥器測試法 Desiccator method	
	a. 平均含量在 0.5mg/l 以下。	

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物質名稱 Substances		甲醛 Formaldehyde
對象 Target		標準/界限值 Criteria/threshold levels
	Average content: 0.5mg/l or less b. 最大含量在 0.7mg/l 以下。(用 N=2 確認平均值與最大值) Maximum content: 0.7mg/l or less (Use N=2 to check the average and maximum value.)	
測定標準 Standard for measurement	測定法：Test method: 1. 密閉腔室測試法 chamber method “EN 717-1(Wood based panels: determination of formaldehyde release; formaldehyde emission by the chamber method)” 2. 穿孔器測試法 Perforator method “EN120(Wood based panels; determination of formaldehyde content; extraction method called perforator method; German version EN 120).” 3. 乾燥器測試法 Desiccator method “JIS A5905(Fiberboards) and JIS A 5908(Particleboards)”	

物質名稱 Substances		聚氯乙烯(PVC)及聚氯乙烯混合物 PVC and PVC blends
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 非接觸 IC 卡(FeliCa)用基材。 Substrates for FeliCa contactless IC cards. 2. 下列產品所使用的配件背包、專用攜帶配件盒、配件腰包的材料和塗裝劑(業務用除外)。例如：電腦、數位相機、攝影機、便攜式多媒體播放器。 Fabrics and coating agents used for carrying bags, carrying cases, and carrying pouches for the following products (excluding those for professional use): Personal computers, digital cameras, video camcorders, and portable audio products. 3. 網綁附件、連接電源線的扎線帶。 Cable ties used for accessories and connecting cords. 4. 產品以及與產品一同包裝的附件等使用的包裝零部件和材料(袋、膠帶、紙箱、泡罩包裝等)。但用於設備、半導體及其它零部件的包裝零部建和材料(trays, tube, magazine sticks, stoppers, reels, embossed carrier tapes)除外。 Packaging components and materials to protect, contain, or transport products or supplied accessories (e.g. bags, adhesive tapes, cartons, and blister packs). Note that packaging components or materials for	1. 有意圖添加。 Intentionally added.

物質名稱 Substances		聚氯乙烯(PVC)及聚氯乙稀混合物 PVC and PVC blends
對象 Target		標準/界限值 Criteria/threshold levels
	devices, semiconductors, and any other components (e.g. trays, magazine sticks, stoppers, reels, embossed carrier tapes) are excluded. 5. 熱縮軟管(用於電池的材料為 3 級)。 Heat shrink tubes. (note that such used for batteries are Level 3) 6. 扁型軟電線(FFC)。 Flexible flat cables (FFC). 7. 木制揚聲器外裝部份採用的片材、層壓版。 Sheets and laminates used for exterior of wooden speakers. 8. 絕緣版、裝飾板、標籤、片材、層壓版(用於電池的材料為 3 級)。 Insulating plates, decorative panels, labels, sheets, and laminates. (note that such used for batteries are Level 3) 9. 安裝車用機器的吸盤。 Suction cups for mounting in-vehicle products.	
Level 3	Level 1 以外所有用途。 All applications other than Level 1	意圖添加。 Intentionally added
排外項目 Exemption	1. 用於塗料、油墨、塗佈劑、黏合劑等樹脂用樹脂黏著劑； Binder for resins used for paints, inks, coating agents, adhesives etc. 2. 藍膜、UV 膠帶、Tube； Blue tapes, UV tapes, Tube.	
測定標準 Standard for measurement	使用 FT-IR 執行含量檢定。 Measured with FT-IR.	

物質名稱 Substances		發泡聚苯乙烯(EPS) Expanded Polystyrene
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 銷往南韓的所有包裝材料。 All packing materials that used for product sold to South Korea.	1. 有意圖添加。 Intentionally added.
Level 3	1. 1 級以外的各式用途。 All uses beside Level 1.	

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破壞臭氧層物質		
物質名稱 Substances	【氟氯碳化物(CFCs)、海龍(Halon)、四氯化碳、1,1,1-三氯乙烷、氯溴甲烷、溴化甲烷、含氯氟烴(HCFCs)、含溴氟烴(HBFCs)】 Ozone Depleting Substances	
對象：蒙特利爾議定書附件 A, B, C 和 E 的物質 (*) Substances of Annexes A, B, C and E of Montreal Protocol (*)		
對象 Target	標準/界限值 Criteria/threshold levels	
Level 1	1. 各式用途，如冷媒、包裝材料使用之發泡劑、清潔溶劑等 2. 用於製冷劑、隔熱材料和絕緣材料等的產品中所有用途 Uses for refrigerant, heat insulation and electrical insulating material (other products)	1. 使用消耗臭氧層物質實施清洗加工，發泡加工等的處理 Treatments such as cleaning and foaming
	2. 所有用途。All uses.	1. 有意圖添加。 Intentionally added.

破壞臭氧層物質(ODS)一覽表
List of ozone depleting substances

CAS No.	名稱 Name
75-69-4	CFC-11；三氯氟甲烷 trichlorofluoromethane
75-71-8	CFC-12；二氯氟甲烷 dichlorofluoromethane
76-13-1	CFC-113；三氯氟乙烷 trichlorofluoroethane
76-14-2	CFC-114；二氯四氟乙烷 dichlorotetrafluoroethane
76-15-3	CFC-115；氯五氟乙烷 chloropentafluoroethane
353-59-3	Halon-1211；溴氯二氟甲烷 bromochlorodifluoromethane
75-63-8	Halon-1301；一溴三氟甲烷 bromotrifluoromethane
124-73-2	Halon-2402；四氟二溴乙烷 dibromotetrafluoroethane
75-72-9	CFC-13；氯三氟甲烷 chlorotrifluoromethane
354-56-3	CFC-111；五氯氟甲烷 pentachlorofluoroethane
76-12-0	CFC-112；四氯二氟乙烷 tetrachlorodifluoroethane
422-78-6	CFC-211；七氯氟丙烷 heptachlorofluoropropane
3182-26-1	CFC-212；六氯二氟丙烷 hexachlorodifluoropropane
2354-06-5	CFC-213；五氯三氟丙烷 pentachlorotrifluoropropane
29255-31-0	CFC-214；四氯四氟丙烷 tetrachlorotetrafluoropropane
4259-43-2	CFC-215；三氯五氟丙烷 trichloropentafluoropropane
661-97-2	CFC-216；二氯六氟丙烷 dichlorohexafluoropropane
422-86-6	CFC-217；氯七氟丙烷 chloroheptafluoropropane
56-23-5	四氯化碳；四氯甲烷 Carbon tetrachloride; tetrachloromethane
71-55-6	1,1,1-三氯乙烷；甲基氯仿 1,1,1-Trichloroethane; methyl chloroform

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物質名稱 Substances		氧化鈹 Beryllium oxide
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 所有用途。 All uses.	1. 有意圖添加。 Intentionally added.

物質名稱 Substances		鈹青銅 Beryllium copper
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 有意圖添加。 Intentionally added.

物質名稱 Substances		全氟辛烷磺酸鹽(PFOS) Perfluorooctane sulfonate
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 織物(布料、紡織品)或其他被覆蓋的材料。 Textiles or other coated materials	1. 有意圖添加或是被覆蓋的材料中占 1 µg/m ² 。 Intentionally added or 1 µg/m ² of coated material
	2. 織物(布料、紡織品)或其他被覆蓋的材料 除外的全部用途。 All except textiles or other coated materials	2. 有意添加或零件的材料占0.1wt% (1000 ppm)(PFOS的合計)。 Intentionally added or 0.1 wt% (1000 ppm) of material in the part (as the sum of PFOS)
排外項目 Exemption	1. 商業用的光學膠片； Photographic films for professional use. 2. 半導體製程用的光阻劑。 Resists for semiconductors.	

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物質名稱 Substances		全氟辛酸 (PFOA) 及其鹽及酯 (*SVHC) Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	
對象: CAS No. 335-67-1、3825-26-1、335-95-5、2395-00-8、335-93-3、335-66-0、376-27-2、3108-24-5			
對象 Target		標準/界限值 Criteria/threshold levels	
Level 1	1. 用於纖維、布料、皮革材料的塗抹劑。 Coatings applied to textiles, leathers and fabrics.	1. 材料中，含有超過 1 ug/m2。 More than 1 µg/m2 of the coated material.	
	2. 上述及下述以外的全部用途。 All applications other than above and below.	1. 材料中，含有超過 1000ppm(0.1wt)。 More than 1000 ppm (or 0.1 wt%) of the parts.	
	3. 用於膠卷、紙、印刷廠的照片用塗抹劑。 Photographic coatings applied to films, papers, or printing plates.	1. 材料中，含有超過 1 ug/m2。 More than 1 µg/m2 of the coated material.	
	4. 用於半導體中的黏合劑、金屬箔、膠帶的添加劑。 Additives for adhesives, foil or tape in semiconductor.	1. 材料中，含有超過 1000ppm(0.1wt)。 More than 1000 ppm (or 0.1 wt%) of the parts.	

物質名稱 Substances		鄰苯二甲酸(2-乙基己基酯) (*SVHC)、鄰苯二甲酸二丁酯(*SVHC)、鄰苯二甲酸丁苄酯(*SVHC)、鄰苯二甲酸二異丁酯(*SVHC) Bis (2-ethylhexyl)phthalate, Dibutyl phthalate, Benzyl butyl phthalate, Diisobutyl phthalate	
對象: CAS No. 117-81-7, 84-74-2, 85-68-7, 84-69-5			
對象 Target		標準/界限值 Criteria/threshold levels	
Level 1	1. 用於電器電氣設備產品的零部件和材料上的添加劑。(例如:便攜包, 手提包, 裝運箱, 保護套, 塑料包裝袋, 收縮膜等) Additives of parts and materials for nonelectrical and electronic equipment (e.g. carrying bags, carrying cases, carrying pouches, plastic bag, shrink film)	1. 材料中，含有超過 1000ppm(0.1wt)。 More than 1000 ppm(0.1wt) of the parts.	
	2. 電氣電子設備長時間與皮膚接觸部位的零部件、材料上的添加劑。如: 把手、方向盤。 Additives of parts and materials for EEE that are in prolonged contact with the human skin e.g. grip, handle.		
Level 3	1. 包裝零部件及材料。 Packaging parts and materials. 2. 電池產品使用的零部件及材料。 Parts and materials for batteries 3. 用於設備、半導體及其它零部件的包裝零件及材料(如 Tray、Tube Stoppers、Reel、Carrier tapes)上的添加劑。	1. 材料中，含有超過 1000ppm(0.1wt)。 More than 1000 ppm(0.1wt) of the parts	



<p>物質名稱 Substances</p>	<p>鄰苯二甲酸(2-乙基己基酯)(*SVHC)、鄰苯二甲酸二丁酯(*SVHC)、鄰苯二甲酸丁苄酯(*SVHC)、鄰苯二甲酸二異丁酯(*SVHC) Bis (2-ethylhexyl)phthalate, Dibutyl phthalate, Benzyl butyl phthalate, Diisobutyl phthalate</p>	
<p>對象：CAS No. 117-81-7, 84-74-2, 85-68-7, 84-69-5</p>		
	<p>對象 Target</p> <p>Additives of packaging components or materials for devices, semiconductors, and any other components (e.g. trays, magazine sticks, stoppers, reels, embossed carrier tapes)</p> <p>4. 上述以外的全部用途(如:操作說明\書等印刷品) All application other than the above (e.g. printed materials such as instruction manuals)</p>	<p>標準/界限值 Criteria/threshold levels</p>

<p>物質名稱 Substances</p>	<p>鄰苯二甲酸二異壬酯、鄰苯二甲酸二異癸酯、鄰苯二甲酸二正辛酯、鄰苯二甲酸二己酯(*SVHC)、鄰苯二甲酸二-C6-8-支鏈庚酯 (*SVHC)、鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯(*SVHC)、鄰苯二甲酸二甲氧乙酯 (*SVHC)、鄰苯二甲酸二異戊酯(*SVHC)、支鏈與直鏈的鄰苯二甲酸二戊酯(*SVHC)、鄰苯二甲酸正戊基異戊基酯(*SVHC)、鄰苯二甲酸二戊酯(*SVHC)、鄰苯二甲酸二己酯(支鏈和直鏈)(*SVHC) Di-isononyl phthalate, Di-isodecyl phthalate, Di-n-octyl phthalate, Di-n-hexyl phthalate, 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich, 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters, Bis(2-methoxyethyl) phthalate, Diisopentylphthalate, "1,2-Benzenedicarboxylic acid, dipentylester, branched and linear", N-pentyl-isopentylphthalate, Dipentyl phthalate</p>	
<p>對象：CAS No. 28553-12-0, 68515-48-0, 26761-40-0, 68515-49-1, 117-84-0, 84-75-3, 71888-89-6, 68515-42-4, 117-82-8, 605-50-5, 84777-06-0, 776297-69-9, 131-18-0, 68515-50-4</p>		
	<p>對象 Target</p> <p>Level 1 1. 放入兒童口中的玩具或是育兒產品的零件和材料。 Parts and materials for children's toy or child care article that can be placed in a child's mouth</p> <p>Level 3 1. 上述以外的所有用途。 All application other than the above</p>	<p>標準/界限值 Criteria/threshold levels</p> <p>1. 塑化材料中占 0.1wt%(1000ppm)(DINP、DIDP、DNOP的合計) 0.1 wt% (1000 ppm) as the sum of the phthalate (DINP, DIDP, DNOP) concentrations in plasticized material</p> <p>有意添加 Intentionally added</p>

特定鄰苯二甲酸鹽一覽表
 List of specific phthalates (phthalic esters)

簡稱	CAS No.	名稱
DEHP	117-81-7	鄰苯二甲酸(2-乙基己基酯) (*SVHC) Bis (2-ethylhexyl)phthalate; Di (2-ethylhexyl) phthalate
DBP	84-74-2	鄰苯二甲酸二丁酯 (*SVHC) Dibutyl phthalate; Di-n-butyl phthalate
BBP	85-68-7	鄰苯二甲酸丁苄酯 (*SVHC) Benzyl butyl phthalate; Butyl benzyl phthalate
DIBP	84-69-5	鄰苯二甲酸二異丁酯 (*SVHC) Diisobutyl phthalate; Di-i-butyl phthalate
DINP	28553-12-0 68515-48-0	鄰苯二甲酸二異壬酯 Di-isononyl phthalate; Diisononyl phthalate
DIDP	26761-40-0 68515-49-1	鄰苯二甲酸二異癸酯 Di-isodecyl phthalate; Diisodecyl phthalate
DNOP	117-84-0	鄰苯二甲酸二正辛酯 Di-n-octyl phthalate
DNHP	84-75-3	鄰苯二甲酸二己酯(*SVHC) Di-n-hexyl phthalate
DIHP	71888-89-6	鄰苯二甲酸二-C6-8-支鏈庚酯 (*SVHC) 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich
DHNUP	68515-42-4	鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯 (*SVHC) 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters
DMEP	117-82-8	鄰苯二甲酸二甲氧乙酯 (*SVHC) Bis(2-methoxyethyl) phthalate
DIPP	605-50-5	鄰苯二甲酸二異戊酯(*SVHC) Diisopentylphthalate
--	84777-06-0	支鏈與直鏈的鄰苯二甲酸二戊酯(*SVHC) 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear
--	776297-69-9	鄰苯二甲酸正戊基異戊基酯(*SVHC) N-pentyl-isopentylphthalate
DPP	131-18-0	鄰苯二甲酸二戊酯(*SVHC) Dipentyl phthalate
--	68515-50-4	鄰苯二甲酸二己酯(支鏈和直鏈)(*SVHC) 1,2-Benzenedicarboxylic acid, dihexylester, branched and linear

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物質名稱 Substances		特定苯並三氮唑(*SVHC) Specific benzotriazole
對象為【2-(3',5'-二叔丁基-2'-經基苯基)苯並三唑(CAS No.3846-71-7)】 2-(3',5'-Di-tert-butyl-2'-hydroxyphenyl)benzotriazole (CAS No. 3846-71-7)		
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 各式用途。 All uses.	1.有意圖添加。 Intentionally added.

物質名稱 Substances		鹵化二苯基甲烷 Halogenated diphenyl methanes
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 各式用途，如電容器、潤滑油、絕緣油及油浸變壓器等。 All uses. (e.g. capacitors, lubricants, insulating oils, and transformers containing oils, paints)	1.材料中，含有超過 1000ppm。 More than 1000 ppm of the parts.

物質名稱 Substances		氣味物質(二甲苯麝香(*SVHC)及酮麝香) Fragrance Substance(Musk Xylene and Musk Ketone)
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 各式用途，如香精。 All uses. (e.g. essence)	1.材料中，含有超過 500ppm。 More than 500 ppm of the parts.

物質名稱 Substances		硒及其化合物，鈹及其化合物 Selenium, Beryllium and its compounds
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 半導體材料、感光劑、顏料、塗料等所有的用途。 All uses. (e.g. semiconductor materials, emulsion, paint)	1. 材料中，含有超過 1000ppm。 More than 1000 ppm of the parts.

物質名稱 Substances		鉍及其化合物 Bismuth and its compounds
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 無鉛焊料、半導體端子電鍍、電極、鉛合金等所有的用途。 All uses. (e.g. Pb-free solder, terminal electroplate of semiconductor, electrode, and Pb alloy).	N/A

物質名稱 Substances		銻及其化合物 Antimony and its compounds
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 顏料、塗料、催化劑、阻燃劑、穩定劑、焊料、油墨等所有的用途。 All uses. (e.g. paint, ink, flame retardants, stabilizers, solder).	N/A

物質名稱 Substances		雙酚 A Bisphenol-A
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 各式用途如環氧樹脂(epoxy resin)、聚碳酸酯樹脂(PC)及其他塑膠。 All used (e.g. epoxy resin, polycarbonate and other plastic).	1.材料中，含有超過 50ppm。 More than 50 ppm of the parts.

物質名稱 Substances		二氯化鈷(*SVHC) Cobalt Dichloride
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 用於矽膠乾燥劑的濕度指示劑。 Moisture indicator used for a desiccant agent (e.g. silica gel)	1.有意圖添加。 Intentionally added.
	2. 濕度指示計(濕度顯示卡)(註:所指的濕度指示劑,是將二氯化鈷浸漬到紙等裡面的吸濕類型) Humidity indicator card which is impregnated with cobalt dichloride	2.成品中占0.1 wt%(1000 ppm) 0.1 wt% (1000 ppm) of article
Level 3	1.上述以外的全部用途 All application other than the above	1.成品中占0.1 wt%(1000 ppm) 0.1 wt% (1000 ppm) of article

物質名稱 Substances		放射性物質【(鈾(U)鈾(Pu)氡(Rn)錒(Am)釷(Th)銫(CS)銣(Sr)】 Radioactive substances
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 各式用途,如電性感測零件、磷光劑等。 All uses. (e.g. instance electricity is detected the part, phosphorescence pharmaceutical etc.)	1.有意圖添加。 Intentionally added.

物質名稱 Substances		氫氟碳化合物(HFC)、全氟化碳(PFC)、六氟化硫(SF ₆) Hydrofluorocarbon(HFC)、Perfluorocarbon(PFC)、Sulfur hexafluoride (SF ₆)
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 安裝於產品中的冷媒、隔熱材料等所有用途。 All uses installed into product (e.g. refrigerant and insulation).	1. 有意圖添加。 Intentionally added.
排外項目 Exemption	1. 用於投影機電源裝置的衝擊壓力吸收器 Sulfur hexafluoride installed into surge absorber in power unit for projector.	

物質名稱 Substances		富馬酸二甲酯(DMF) Dimethylfumarate
對象為 CAS No. 624-49-7		
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 所有用途。 All uses.	1. 材料中，含有超過 0.1ppm。 More than 0.1 ppm of the parts.

物質名稱 Substances		二丁基錫化合物(DBT) Dibutyltin
對象不包含為金屬錫、錫合金、錫電鍍、錫無機化合物 Metal tin, tin alloys, tin plating and tin inorganic compounds do not fall under this category.		
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 所有用途。 All uses.	1. 材料中，錫含量超過 1000ppm(0.1wt)。 More than 1000 ppm (or 0.1 wt%) of the parts.
排外項目 Exemption	1. 零部件和設備中所用再利用的包裝零部件和材料中的添加劑。 Additives of reused packaging components and materials for parts and devices. 2. 設備、半導體及其它零部件所用的包裝零部件和材料(Trays、Tubes、Stoppers、Reels、Carrier tapes)中的添加劑。 Additives of packaging components or materials for devices, semiconductors, and any other components (e.g. trays, magazine sticks, stoppers, reels, embossed carrier tapes).	



物質名稱 Substances		二辛基錫化合物(DOT) Diocetyl tin
對象不包含為金屬錫、錫合金、錫電鍍、錫無機化合物 Metal tin, tin alloys, tin plating and tin inorganic compounds do not fall under this category		
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 用於纖維、布料中的添加劑。 Additives of textiles.	1. 材料中，錫含量超過 1000ppm(0.1wt)。 More than 1000 ppm (or 0.1 wt%) of the parts.

物質名稱 Substances		硫代甘醇酸異辛酯二正辛基錫(DOTE) (*SVHC) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate
對象：CAS No. 15571-58-1		
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過 1000ppm(0.1wt)。 More than 1000 ppm (or 0.1 wt%) of the parts.

物質名稱 Substances		硫代甘醇酸異辛酯二正辛基錫和甲基錫三(巯基乙酸異辛酯)為組成要素的物質 (DOTE 和 MOTE 反應產物)(*SVHC) 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 MOTE)
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過 1000ppm(0.1wt)。 More than 1000 ppm (or 0.1 wt%) of the parts.

物質名稱 Substances		磷酸三硬脂精(2-氯二乙硫醚) (TCEP) 、磷酸三(2-氯丙基)酯(TCPP)、磷酸三(2,3-二氯丙基)酯(TDCPP) Tris(2-chloroethyl) phosphate, Tris(2-chloro-1-methylethyl) phosphate (TCPP), Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)
對象：CAS No.115-96-8, 13674-84-5, 13674-87-8		
對象 Target		標準/界限值 Criteria/threshold levels
Level 4	1. 用於塑膠料、樹脂、纖維、布料的耐燃劑。 Flame retardants used in plastics, resins, fabrics, and textiles.	1. 材料中，含有超過 1000ppm(0.1wt)。 More than 1000 ppm (or 0.1 wt%) of the parts

物質名稱 Substances		三氧化二砷(*SVHC)、五氧化二砷(*SVHC) Diarsenic trioxide, Diarsenic pentaoxide
對象：CAS No. 1303-28-2, 1327-53-3		
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 液晶螢幕(包含玻璃罩、手蝕屏、後照燈)玻璃的消泡劑、澄清劑等用途。 Antifoam agents or fining agents for LCD panels (including cover glasses, touchscreens, and backlights).	1. 材料中，含量超過1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) of the parts.
Level 3	1. 1級以外的所有用途。 All uses except of level 1.	1. 材料中，含量超過1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) of the parts.

物質名稱 Substances		硼酸(*SVHC)、特定硼酸鈉(*SVHC) Boric acid, specific sodium borates
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) of the parts.

硼酸、特定硼酸鈉一覽表
List of boric acids and specified sodium borates

CAS No.	名稱
10043-35-3	硼酸 Boric acid (*SVHC)
11113-50-1	硼酸 Boric acid (*SVHC)
12179-04-3	五水四硼酸鈉 (*SVHC) Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide pentahydrate
1330-43-4	五水四硼酸鈉 (*SVHC) Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide
1303-96-4	十水四硼酸鈉(硼砂) (*SVHC) Disodium tetraborate, anhydrous; Disodium tetraborate decahydrate; Borax
12267-73-1	七水合四硼酸鈉 (*SVHC) Tetraboron disodium heptaoxide, hydrate

物質名稱 Substances		對特辛基苯酚/辛基酚(*SVHC) 4-(1,1,3,3-tetramethylbutyl)phenol
對象：又名 4-(1,1,3,3-四甲基丁基)苯酚(CAS No.140-66-9)		
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過 1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) of the parts.

物質名稱 Substances		二乙二醇二甲醚 或 雙(2-甲氧基乙基)醚(*SVHC) Bis(2-methoxyethyl) ether
對象：(CAS No.111-96-6)		
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過 1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) of the parts.

物質名稱 Substances		N,N-二甲基乙醯胺(*SVHC) N,N-dimethylacetamide (DMAC)
對象：(CAS No.127-19-5)		
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過 1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) of the parts.

物質名稱 Substances		乙二醇二乙醚 Ethylene glycol dimethyl ether (EGDME)
對象：又名 1,2-二甲氧基乙烷 (CAS No.110-71-4)		
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過 1000ppm(0.1wt%)。 More than 1000 ppm (or 0.1 wt%) of the parts.

物質名稱 Substances		高氯酸鹽 Perchlorates
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過 6ppb(0.006ppm)。 More than 6 ppb (or 0.006ppm) of the parts.

物質名稱 Substances		鹵素-氯及溴元素 Halogen- Cl and Br
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 所有用途。 All uses.	1. 材料中，總氯含量超過 900ppm，或總溴含量超過 900ppm，或總氯加總溴超過 1500ppm。 Cl \geq 900ppm, or Br \geq 900ppm. Or Cl+Br \geq 1500ppm
排外項目 Exemption	如同 PVC 之排外項目。 Refer to exemption of PVC.	

物質名稱 Substances		多環芳烴化合物(PAH) Polycyclic aromatic hydrocarbons
對象 Target		標準/界限值 Criteria/threshold levels
CAS No. 50-32-8(*SVHC), 192-97-2, 56-55-3, 218-01-9, 205-99-2, 205-82-3, 207-08-9, 53-70-3		
Level 1	1. 直接、長時間，或在很短的時間內屢次的接觸皮膚或口腔內的玩具和育兒產品的橡膠或塑料零部件。 Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	1. 塑料或是橡膠零部件中占 0.00005wt%(1ppm)。 0.00005 wt% (0.5 ppm) of the plastic or rubber part
Level 1	2. 除玩具和育兒產品以外，直接且長期或反覆接觸皮膚或口腔的橡膠或塑料部分(例如把手、手柄等) Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	2. 塑料或是橡膠零部件中占 0.0001wt%(1ppm)。 0.0001 wt% (1 ppm) of the plastic or rubber part



物質名稱 Substances		磷酸三(二甲苯)酯(TXP) (*SVHC) Trixylyl phosphate
CAS No. 25155-23-1		
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過 1000ppm。 More than 1 ppm (0.1 wt%) of the parts.

物質名稱 Substances		2-(2H)- 苯並三氮唑-2-基)-4,6-雙(1,1-二甲基乙基)苯酚 (UV-320) (*SVHC) 2-benzotriazol-2-yl-4,6-di-tert-butylphenol
又名特定苯並三氮唑 CAS No. 3846-71-7		
對象 Target		標準/界限值 Criteria/threshold levels
Level 1	1. 所有用途。 All uses.	1. 意圖添加。 Intentionally added.

物質名稱 Substances		2-(2'-羥基-3',5'-二叔戊基苯基)苯並三唑 (UV-328) (*SVHC) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol
CAS No. 25973-55-1		
對象 Target		標準/界限值 Criteria/threshold levels
Level 3	1. 所有用途。 All uses.	1. 材料中，含量超過 1000ppm。 More than 1 ppm (0.1 wt%) of the parts.





REACH SVHC 清單
REACH SVHC List

No	物質名稱 Substance name	Allowable concentrations	CAS number
1	蒽 Anthracene	< 1000ppm	120-12-7
2	4,4'-二胺基二苯甲烷 4,4'- Diaminodiphenylmethane	< 1000ppm	101-77-9
3	鄰苯二甲酸二丁酯, DBP Dibutyl phthalate	< 1000ppm	84-74-2
4	二氯化鈷 Cobalt dichloride	< 1000ppm	7646-79-9
5	五氧化二砷 Diarsenic pentaoxide	< 1000ppm	1303-28-2
6	三氧化二砷 Diarsenic trioxide	< 1000ppm	1327-53-3
7	重鉻酸鈉二水合物 Sodium dichromate, dihydrate	< 1000ppm	7789-12-0
8	5-第三丁基-2,4,6-三硝基間二甲苯, 二甲苯麝香 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	< 500ppm	81-15-2
9	鄰苯二甲酸二(2-乙基己基)酯, DEHP Bis (2-ethyl(hexyl)phthalate)	< 1000ppm	117-81-7
10	六溴環十二烷, HBCDD Hexabromocyclododecane	< 100ppm	25637-99-4
11	短鏈氯化石蠟 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	< 1000ppm	85535-84-8
12	氧化三丁錫 Bis(tributyltin)oxide	< 1000ppm	56-35-9
13	砷酸氫鉛 Lead hydrogen arsenate	< 1000ppm	7784-40-9
14	三乙基砷酸酯 Triethyl arsenate	< 1000ppm	15606-95-8
15	鄰苯二甲酸丁酯苯甲酯, BBP Benzyl butyl phthalate	< 1000ppm	85-68-7
16	二硝基甲苯 2,4-Dinitrotoluene	< 1000ppm	121-14-2
17	矽酸鋁、耐火陶瓷纖維 Aluminosilicate Refractory Ceramic Fibres	< 1000ppm	---
18	蒽油 Anthracene oil	< 1000ppm	90640-80-5
19	蒽油、蒽糊 Anthracene oil, Anthracene paste	< 1000ppm	90640-81-6
20	蒽油、蒽糊、蒽分離液 Anthracene oil, Anthracene paste, Anthracene fraction	< 1000ppm	91995-15-2
21	蒽油、蒽糊、輕油 Anthracene oil, Anthracene paste, distn. Lights	< 1000ppm	91995-17-4



No	物質名稱 Substance name	Allowable concentrations	CAS number
22	蒽油，含蒽量少 Anthracene oil, Anthracene-low	< 1000ppm	90640-82-7
23	鄰苯二甲酸二異丁酯 Diisobutyl phthalate	< 1000ppm	84-69-5
24	鉻酸鉛 Lead chromate	< 1000ppm	7758-97-6
25	紅色鉬鉻酸鉛硫酸鹽 C.I.紅色 104 Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	< 1000ppm	12656-85-8
26	黃色硫化鉻酸鉛 C.I. 黃色 34 Lead sulfochromate yellow (C.I. Pigment Yellow 34)	< 1000ppm	1344-37-2
27	瀝青，煤焦油，高溫 Pitch, Coal tar, High temp.	< 1000ppm	65996-93-2
28	三 2-(氯乙基)磷酸酯 Tris(2-chloroethyl)phosphate	< 1000ppm	115-96-8
29	氧化鋯矽酸鋁、耐火陶瓷纖維 Zirconia Aluminosilicate Refractory Ceramic Fibres	< 1000ppm	---
30	丙烯醯胺 Acrylamide	< 1000ppm	79-06-1
31	三氯乙烯 Trichloroethylene	< 1000ppm	79-01-6
32	硼酸 Boric acid	< 1000ppm	10043-35-3 11113-50-1
33	四硼酸鈉 Disodium tetraborate, anhydrous	< 1000ppm	1330-43-4 12179-04-3 1303-96-4
34	水合硼酸鈉 Tetraboron disodium heptaoxide hydrate	< 1000ppm	12267-73-1
35	鉻酸鈉 Sodium chromate	< 1000ppm	7775-11-3
36	鉻酸鉀 Potassium chromate	< 1000ppm	7789-00-6
37	重鉻酸銨 Ammonium dichromate	< 1000ppm	7789-09-5
38	重鉻酸鉀 Potassium dichromate	< 1000ppm	7778-50-9
39	硫酸鈷 Cobalt(II) sulphate	< 1000ppm	10124-43-3
40	硝酸鈷 Cobalt(II) dinitrate	< 1000ppm	10141-05-6
41	碳酸鈷 Cobalt(II) carbonate	< 1000ppm	513-79-1
42	醋酸鈷 Cobalt(II) diacetate	< 1000ppm	71-48-7
43	乙二醇單甲醚 2-Methoxyethanol	< 1000ppm	109-86-4



No	物質名稱 Substance name	Allowable concentrations	CAS number
44	乙二醇單乙醚 2-Ethoxyethanol	< 1000ppm	110-80-5
45	三氧化鉻 Chromium trioxide	< 1000ppm	1333-82-0
46	鉻酸、重鉻酸、鉻酸及重鉻酸的低聚物 Chromic acid, Dichromic acid	< 1000ppm	7738-94-5 13530-68-2
47	乙二醇乙醚醋酸酯 2-ethoxyethylacetate	< 1000ppm	111-15-9
48	鉻酸鋇 Strontium chromate	< 1000ppm	7789-06-2
49	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)	< 1000ppm	68515-42-4
50	聯胺或水合聯胺 Hydrazine	< 1000ppm	7803-57-8 302-01-2
51	1-甲基吡咯烷酮 1-methyl-2-pyrrolidone	< 1000ppm	872-50-4
52	1,2,3-三氯丙烷 1,2,3-trichloropropane	< 1000ppm	96-18-4
53	鄰苯二甲酸二-C6-8-支鏈庚酯 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	< 1000ppm	71888-89-6
54	砷酸鈣 Calcium arsenate	< 1000ppm	7778-44-1
55	二乙二醇二甲醚 或 雙(2-甲氧基乙基)醚 Bis(2-methoxyethyl) ether	< 1000ppm	111-96-6
56	氫氧化鉻酸鋅鉀 Potassium hydroxyoctaoxodizincatedichromate	< 1000ppm	11103-86-9
57	苦味酸鉛 Lead dipicrate	< 1000ppm	6477-64-1
58	N,N-二甲基乙醯胺 N,N-dimethylacetamide	< 1000ppm	127-19-5
59	砷酸 Arsenic acid	< 1000ppm	7778-39-4
60	鄰甲氧基苯胺 2-Methoxyaniline; o-Anisidine	< 1000ppm	90-04-0
61	砷酸鉛 Trilead diarsenate	< 1000ppm	3687-31-8
62	1,2-二氯乙烷 1,2-dichloroethane	< 1000ppm	107-06-2
63	氫氧化鉻酸鋅(C.I.顏料黃 36) Pentazinc chromate octahydroxide	< 1000ppm	49663-84-5
64	對特辛基苯酚(辛基酚) 4-(1,1,3,3-tetramethylbutyl)phenol	< 1000ppm	140-66-9



No	物質名稱 Substance name	Allowable concentrations	CAS number
65	甲醛和苯胺的聚合物 Formaldehyde, oligomeric reaction products with aniline	< 1000ppm	25214-70-4
66	鄰苯二甲酸二甲氧乙酯 Bis(2-methoxyethyl) phthalate (DMEP)	< 1000ppm	117-82-8
67	疊氮化鉛 Lead diazide, Lead azide	< 1000ppm	13424-46-9
68	收斂酸鉛 Lead styphnate	< 1000ppm	15245-44-0
69	2,2'-二氯-4,4'-二氨基二苯基甲烷 2,2'-dichloro-4,4'-methylenedianiline	< 1000ppm	101-14-4
70	酚酞 Phenolphthalein	< 1000ppm	77-09-8
71	鉻酸鋁 Dichromium tris(chromate)	< 1000ppm	24613-89-6
72	C.I. 溶劑藍 4 α,α -雙[4-(二甲基胺基)苯基]-4-(苯基胺基)-1-萘甲醇 α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	< 1000ppm	6786-83-0
73	4,4'-亞甲基雙(N,N-二甲苯胺) 米其勒鹼 N,N,N',N'-tetramethyl-4,4'-methylenedianiline	< 1000ppm	101-61-1
74	β 型異氰尿酸三縮水甘油酯 1,3,5-tris[(2S 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC) and	< 1000ppm	59653-74-6
75	氧化硼 Diboron trioxide	< 1000ppm	1303-86-2
76	三乙二醇二甲醚 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	< 1000ppm	112-49-2
77	C.I. 溶劑紫 8 (4,4'-雙(二甲基胺基)-4''-(甲基胺基)三苯甲基醇) 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	< 1000ppm	561-41-1
78	甲基磺酸鉛 Lead(II) bis(methanesulfonate)	< 1000ppm	17570-76-2
79	甲醯胺 Formamide	< 1000ppm	75-12-7
80	鹼性紫 3 [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammon ium chloride (C.I. Basic Violet 3)	< 1000ppm	548-62-9
81	乙二醇二甲醚 (2 dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	< 1000ppm	110-71-4
82	C.I. 鹼性藍 26 [4-[4-苯胺基-1-萘基][4-(二甲基胺基)苯基]亞甲基] 環己-2,5-二烯-1-亞基]二甲基氯化銨 [4-[4-aminio-1-naphthyl][4-(dimethylamino)phenyl]methylene	< 1000ppm	2580-56-5



No	物質名稱 Substance name	Allowable concentrations	CAS number
]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)		
83	異氰尿酸三縮水甘油酯 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	< 1000ppm	2451-62-9
84	4,4'-二(N,N-二甲胺基) 二苯基酮 米其勒酮 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	< 1000ppm	90-94-8
85	十溴聯苯醚 Bis(pentabromophenyl) ether (DecaBDE)	< 1000ppm	1163-19-5
86	全氟十三酸 Pentacosafuorotridecanoic acid	< 1000ppm	72629-94-8
87	全氟十二烷酸 Tricosafuorododecanoic acid	< 1000ppm	307-55-1
88	全氟十一烷酸 Henicosafuoroundecanoic acid	< 1000ppm	2058-94-8
89	全氟代十四酸 Heptacosafuorotetradecanoic acid	< 1000ppm	376-06-7
90	辛基酚聚醚-9，包括界定明確的物質以及 UVCB 物質、聚合物及同系物 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	< 1000ppm	—
91	支鏈及直鏈壬基酚-包含有 9 個碳烷基鏈之所有獨立同分異構體，及所有含有直鏈或支鏈之 9 個碳烷基鏈 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)	< 1000ppm	—
92	偶氮二甲醯胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	< 1000ppm	123-77-3
93	六氫鄰苯二甲酸酐 環己烷-1,2 - 二羧酸酐[1] 順式 - 環己烷-1,2 - 二羧酸酐[2] 反式 - 環己烷-1,2 - 二羧酸酐[3] Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride-HHPA)[1] Cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3]	< 1000ppm	85-42-7, 13149-00-3, 14166-21-3
94	甲基六氫苯酐 4-甲基六氫苯酐 甲基六氫化鄰苯二甲酸酐 3-甲基六氫苯二甲酸酐 Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3],	< 1000ppm	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9



No	物質名稱 Substance name	Allowable concentrations	CAS number
	Hexahydro-3-methylphthalic anhydride [4]		
95	甲氧基乙酸(MAA) Methoxy acetic acid	< 1000ppm	625-45-6
96	支鏈和直鏈之 1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	< 1000ppm	84777-06-0
97	鄰苯二甲酸二異戊酯 Diisopentylphthalate (DIPP)	< 1000ppm	605-50-5
98	鄰苯二甲酸正戊基異戊基酯 N-pentyl-isopentylphthalate	< 1000ppm	776297-69-9
99	乙二醇二乙醚 1,2-Diethoxyethane	< 1000ppm	629-14-1
100	N,N-二甲基甲醯胺 N,N-dimethylformamide	< 1000ppm	68-12-2
101	二丁基二氯化錫 Dibutyltin dichloride (DBTC)	< 1000ppm	683-18-1
102	鹼式乙酸鉛 Acetic acid, lead salt, basic	< 1000ppm	51404-69-4
103	鹼式碳酸鉛 Trilead bis(carbonate)dihydroxide	< 1000ppm	1319-46-6
104	鹼式硫酸鉛 Lead oxide sulfate	< 1000ppm	12036-76-9
105	二鹽基鄰苯二甲酸鉛 [Phthalato(2-)]dioxotrilead	< 1000ppm	69011-06-9
106	雙(十八酸基)二氧代三鉛 Dioxobis(stearato)trilead	< 1000ppm	12578-12-0
107	C16-18-脂肪酸鉛鹽 Fatty acids, C16-18, lead salts	< 1000ppm	91031-62-8
108	氟硼酸鉛 Lead bis (Tetrafluoroborate)	< 1000ppm	13814-96-5
109	氨基氰鉛鹽 Lead cyanamidate	< 1000ppm	20837-86-9
110	硝酸鉛 Lead dinitrate	< 1000ppm	10099-74-8
111	一氧化鉛 Lead monoxide (Lead oxide)	< 1000ppm	1317-36-8
112	四氧化三鉛 Orange lead (Lead tetroxide)	< 1000ppm	1314-41-6
113	鈦酸鉛 Lead titanium trioxide	< 1000ppm	12060-00-3
114	鈦酸鉛錫 Lead titanium zirconium oxide	< 1000ppm	12626-81-2
115	氧化鉛與硫酸鉛的複合物 Pentalead tetraoxide sulphate	< 1000ppm	12065-90-6
116	顏料黃 41	< 1000ppm	8012-00-8



No	物質名稱 Substance name	Allowable concentrations	CAS number
	Pyrochlore, antimony lead yellow		
117	摻雜鉛的矽酸鋇鹽 Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	< 1000ppm	68784-75-8
118	矽酸鉛鹽 Silicic acid, lead salt	< 1000ppm	11120-22-2
119	亞硫酸鉛 (II) Sulfurous acid, lead salt, dibasic	< 1000ppm	62229-08-7
120	四乙基鉛 Tetraethyllead	< 1000ppm	78-00-2
121	三鉛四氧化硫酸鉛 (又稱三鹼式硫酸鉛) Tetralead trioxide sulphate	< 1000ppm	12202-17-4
122	磷酸氧化鉛 Trilead dioxide phosphonate	< 1000ppm	12141-20-7
123	呋喃 Furan	< 1000ppm	110-00-9
124	1,2-環氧丙烷 Methyloxirane (Propylene oxide)	< 1000ppm	75-56-9
125	硫酸二乙酯 Diethyl sulphate	< 1000ppm	64-67-5
126	硫酸二甲酯 Dimethyl sulphate	< 1000ppm	77-78-1
127	3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	< 1000ppm	143860-04-2
128	地樂酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	< 1000ppm	88-85-7
129	4,4'-二胺基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine	Refer to attachment 3 Specific Azo compounds	838-88-0
130	4,4'-二氨基二苯醚 4,4'-oxydianiline and its salts	Refer to attachment 3 Specific Azo compounds	101-80-4
131	4-氨基偶氮苯 4-aminoazobenzene	Refer to attachment 3 Specific Azo compounds	60-09-3
132	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (toluene-2,4-diamine)	Refer to attachment 3 Specific Azo compounds	95-80-7
133	2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine (p-cresidine)	Refer to attachment 3 Specific Azo compounds	120-71-8



No	物質名稱 Substance name	Allowable concentrations	CAS number
134	4-氨基聯苯 Biphenyl-4-ylamine	Refer to attachment 3 Specific Azo compounds	92-67-1
135	鄰氨基偶氮甲苯 o-aminoazotoluene	Refer to attachment 3 Specific Azo compounds	97-56-3
136	鄰甲基苯胺 o-toluidine	Refer to attachment 3 Specific Azo compounds	95-53-4
137	N-甲基乙醯胺 N-methylacetamide	< 1000ppm	79-16-3
138	溴代正丙烷(又稱 1-溴丙烷) 1-bromopropane (n-propyl bromide)	< 1000ppm	106-94-5
139	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	Refer to attachment 3 PFOA	335-67-1
140	氧化鎘 Cadmium oxide	< 1000ppm	1306-19-0
141	全氟辛酸銨 Ammoniumpentadecafluorootanoate (APFO)	< 1000ppm	3825-26-1
142	鎘 Cadmium	Refer to attachment 3 Cd	7440-43-9
143	支鏈或直鏈的乙氧基壬基酚，包括含有 9 個碳烷基鏈及所有含有支鏈或直鏈 9 個碳烷基鏈 UVCB 物質、聚合物及同系物，包含獨立同分異構體及複合物 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]	< 1000ppm	—
144	鄰苯二甲酸二戊酯 Dipentyl phthalate (DPP)	< 1000ppm	131-18-0
145	硫化鎘 Cadmium sulphide	< 1000ppm	1306-23-6
146	鄰苯二甲酸二己酯(DNHP) Dihexyl phthalate	< 1000ppm	84-75-3
147	C.I.直接紅 28 Disodium 3,3'-(1,1'-biphenyl)-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)	< 1000ppm	573-58-0
148	C.I.直接黑 38 Disodium	< 1000ppm	1937-37-7



No	物質名稱 Substance name	Allowable concentrations	CAS number
	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)		
149	2-巯基咪唑啉(亞乙基硫脲) Imidazolidine-2-thione; 2-imidazoline-2-thiol	< 1000ppm	96-45-7
150	乙酸鉛(醋酸鉛) Lead di (acetate)	< 1000ppm	301-04-2
151	磷酸三(二甲苯)酯 Trixylyl phosphate	< 1000ppm	25155-23-1
152	鄰苯二甲酸二己酯 (支鏈和直鏈) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	< 1000ppm	68515-50-4
153	過硼酸鈉水合物(過氧偏硼酸鈉) Sodium perborate; perboric acid, sodium salt	< 1000ppm	---
154	過硼酸鈉 Sodium peroxometaborate	< 1000ppm	7632-04-4
155	氯化鎘 Cadmium chloride	< 1000ppm	10108-64-2
156	氟化鎘 Cadmium fluoride	< 1000ppm	7790-79-6
157	DOTE 和 MOTE 反應產物 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 MOTE)	< 1000ppm	---
158	硫代甘醇酸異辛酯二正辛基錫 DOT E 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOT E)	< 1000ppm	15571-58-1
159	紫外線吸收劑 UV-320 (特定苯並三氮唑) 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	Refer to attachment 3 Specific benzotriazole	3846-71-7
160	硫酸鎘 Cadmium sulphate	< 1000ppm	10124-36-4 31119-53-6
161	紫外線吸收劑 UV-328 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	< 1000ppm	25973-55-1
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	< 1000ppm	68515-51-5 68648-93-1



No	物質名稱 Substance name	Allowable concentrations	CAS number
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異構體(卡拉花醛及其同分易購物)] 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]	< 1000ppm	
164	硝基苯 Nitrobenzene	< 1000ppm	98-95-3
165	2,4-貳三級丁基-6-(5-氯苯三唑-2-基)苯酚 (UV-327) 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV- 327)	< 1000ppm	3864-99-1
166	2-(2H-苯并三唑-2-基)-4-三級丁基-6-二級丁基苯酚(UV-350) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)	< 1000ppm	36437-37-3
167	1,3-丙磺內酯 1,3-propanesultone	< 1000ppm	1120-71-4
168	全氟壬酸及其鈉與銨鹽 Perfluorononan-1-oic-acid and its sodium and ammonium salt	< 1000ppm	375-95-1
169	苯并[a]芘 Benzo[def]chrysene (Benzo[a]pyrene)	Refer to attachment 3 Polycyclic aromatic hydrocarbons	50-32-8
170	雙酚 A 4,4'-isopropylidenediphenol (bisphenol A)	< 1000ppm	80-05-7
171	十九氟癸酸及其鈉和銨鹽 nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	< 1000ppm	335-76-2 3108-42-7 3830-45-3
172	4-庚基苯酚,支鍊及直鍊包括含有 7 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 7 個碳烷基鏈的 UVCB 物質 4-heptylphenol, branched and linear (4-HPbl)	< 1000ppm	-----
173	4-三級戊基苯酚 4-tert-pentylphenol (PTAP)	< 1000ppm	80-46-6
174	全氟己基磺酸及其鹽類 Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	< 1000ppm	206-587-1 355-46-4
175	1,2-苯并菲 Chrysene	< 1000ppm	205-923-4
176	苯[a]蒽 Benzo[a]anthracene	< 1000ppm	200-280-6
177	硝酸鎘 Cadmium nitrate	< 1000ppm	233-710-6

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No	物質名稱 Substance name	Allowable concentrations	CAS number
178	氫氧化鎘 Cadmium hydroxide	< 1000ppm	244-168-5
179	碳酸鎘 Cadmium carbonate	< 1000ppm	208-168-9
180	1,6,7,8,9,14,15,16,17,17,18,18-十二氯五環 [12.2.1.16,9.02,13.05,10]十八碳-7,15-二烯 (“Dechlorane Plus”TM)[含有其任何單獨的反式和順式異構體或其任何組合] 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]	< 1000ppm	—
181	1,3,4-噻二唑-2,5-二硫醇與甲醛和支鏈和直鏈 4-庚基酚的反應產物(RP-HP) [含有≥0.1%w/w 支鏈和直鏈的 4-庚基酚] 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]	< 1000ppm	—
182	1,2,4-苯三甲酸酐 Benzene-1,2,4-tricarboxylic acid 1,2 anhydride(trimellitic anhydride) (TMA)	< 1000ppm	552-30-7
183	苯並(G,H,I)芘 Benzo[ghi]perylene	< 1000ppm	191-24-2
184	十甲基環五矽氧烷 Decamethylcyclopentasiloxane (D5)	< 1000ppm	541-02-6
185	鄰苯二甲酸二環己酯 Dicyclohexyl phthalate (DCHP)	< 1000ppm	84-61-7
186	氧化硼鈉 Disodium octaborate	< 1000ppm	12008-41-2
187	十二甲基環六矽氧烷 Dodecamethylcyclohexasiloxane (D6)	< 1000ppm	540-97-6
188	乙二胺 Ethylenediamine (EDA)	< 1000ppm	107-15-3
189	鉛 Lead	< 1000ppm	7439-92-1
190	八甲基環四矽氧烷 Octamethylcyclotetrasiloxane (D4)	< 1000ppm	556-67-2
191	氫化三聯苯 Terphenyl hydrogenated	< 1000ppm	61788-32-7

包裝材料之追加事項

Additional rules for packaging materials

物質名稱 Substances	重金屬(鉛、鎘、汞、六價鉻) Heavy metals (cadmium, lead, mercury, and hexavalent chromium)	
	對象 Target	禁止供貨時間 Effective date of the ban on the delivery
Level 1	附件四 包裝材料明細所列的包裝材料與對象。 All packaging materials such as Attachment 4.	立即禁止 Banned
排外項目 Exemption	客戶、運輸公司或零部件交貨廠商所使用的可回收物流箱除外。 Cartons for returnable boxes owned by carriers or parts suppliers.	
允許濃度 Allowable concentrations	<p>1. 對於鉛、鎘、汞、六價鉻等重金屬，按包裝的各部件材料、墨水、塗料等，合計重金屬濃度為 100ppm 以下； “Less than 100ppm” is determined as the allowable total-concentration of four heavy metals (Cd, Pb, Hg, Cr6+) contained in each part, ink, or paint that constitutes a package. (主要塑膠部位：塑膠袋、緩衝材料、薄膜、托盤、帶盤、膠帶、料管(裝運管)、打包帶等。) (Typical plastic parts: cushions, films, reels, adhesive tapes, magazine sticks (including stoppers), polyvinyl bags, bands, and trays.)</p>	
測定標準 Standard for measurement	<p>1. 對於六價鉻的分析，首先對總鉻量進行分析，確認 4 種元素合計是否小於 100ppm。此時，可以與鎘和鉛同時進行預處理。 For hexavalent chromium, first analyze total chromium content and verify that the total concentration of cadmium, lead, mercury and total chromium is less than 100ppm. When analyzing, the same sample preparation methods as those used for cadmium and lead are applicable.</p> <p>2. 若 4 種元素總含量合計大於 100ppm 時，必須確認鎘、鉛、汞的合計含量小於 100ppm。當鎘、鉛、汞的合計含量小於 100ppm 時，應進一步對鉻是否為六價鉻進行檢測，最終應確認為沒有檢測到六價鉻。 If this total concentration is more than 100ppm, verify that the sum of the cadmium, lead and mercury concentration is less than the 100ppm limit. When the sum of the cadmium, lead and mercury concentration is less than the 100ppm limit, analyze and confirm that no hexavalent chromium is present, using the standard methods for detecting hexavalent chromium provided in this table.</p>	
	<p>1. 預處理 Sample preparation</p> <p>1.1 關於鎘、鉛，應依照塑膠中的鎘、鉛的方法進行判定。 For cadmium and lead, follow the methods respectively specified in Attachment 1.</p> <p>1.2 關於總鉻，應依照塑膠中的鉻的方法進行判定。 For total chromium, follow the methods specified in Attachment 1.</p> <p>1.3 關於汞，預處理主要有下列 3 種方法： For mercury, typical test methods are as follows:</p> <p>(a) 密閉容器內的加壓酸分解法(包括微波分解法(例如 EPA 3052 或者 IEC 62321))； Closed system for acid decomposition method (e.g. a microwave decomposition method) (e.g. IEC 62321, EPA 3052)</p> <p>(b) 加熱氣化-冷原子吸光法；</p>	

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物質名稱 Substances	重金屬(鉛、鎘、汞、六價鉻) Heavy metals (cadmium, lead, mercury, and hexavalent chromium)	
	對象 Target	禁止供貨時間 Effective date of the ban on the delivery
	<p> A heating evaporation-cold-vapor mercury-atomic-absorption method (c) 採用回流冷凝器分解燒瓶(基耶達爾法)的硫酸、硝酸的濕式分解法等。 A wet decomposition method (e.g. Kjeldahl method) in which a decomposition flask with a reflux condenser is used to decompose mercury by sulfuric acid or nitric acid. (註) 必須注意無論採用哪種方法都不能讓汞揮發。另外，產生沉澱物時，必須採取某種方法使其完全溶解成溶液。 Note: In the process of sample preparation, particular attention is required to avoid mercury sublimation, and precipitates must be completely dissolved by some technical means. </p> <p> 2. 測定法 Measurement methods </p> <p> 2.1 對於鎘、鉛、總鉻的測定法，應依照塑膠中的鎘、鉛、總鉻的方法進行判定。 Regarding the measurement of cadmium, lead, and total-chromium concentrations, follow the methods specified in Attachment 1. </p> <p> 2.2 對於汞，其測定方法與塑膠中的鎘、鉛相同。但是若估計含有低濃度汞混入時，則適合採用還原氣化原子吸光法、或是帶有氫氣發生裝置的 ICP-AES(ICP-OES)、ICP-MS 法進行分析。 Regarding the measurement of mercury concentrations, follow the same methods as cadmium and lead specified in Attachment 1. When the mercury concentration is predicted to be low, you are advised to use one of the following methods: (a) A reduction-evaporation atom-absorption method (b) ICP-AES(ICP-OES) method with a hydride-generation apparatus. (c) ICP-MS method with a hydride-generation apparatus. </p> <p> 3 若其他預處理和量測方法的搭配可保證鎘、汞及總鉻的偵測極限於 5ppm 以下，鉛的極限於 30ppm 以下，則同樣可應用於包材的量測。 If a combination of a sample preparation method and a measurement method can ensure the following limits of quantification, the combination is also available: </p> <p> 3.1 Less than 5ppm for mercury 3.2 Less than 5ppm for cadmium 3.3 Less than 5ppm for the total chromium 3.4 Less than 30ppm for lead </p>	

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包裝材料明細
Packaging Materials List

包裝材列管清單 Packing materials list		
項次 Item	包裝材 Packing Material	範例 Example
1	紙箱	
2	緩衝材料	
3	防護帶(布)	泡沫塑膠料、泡棉、氣泡袋、EPE
4	塑膠袋	PE 袋、抗靜電鋁箔袋
5	信封	裝出貨資料之信封
6	吸塑泡殼包裝	真空成型之泡殼
7	膠膜	藍膜
8	油墨	紙箱油墨、標籤油墨、筆及印台油墨
9	隔離板/間隔板	紙、EPE
10	膠帶	封箱膠帶
11	U 型釘	固定紙箱之打釘
12	標籤	QA Seal 封條、產品標籤
13	打包帶	
14	熱收縮膜	
15	濕度指示卡	
16	乾燥劑	
17	Tray 盤	
18	管條	
19	豆釘	
20	軟塞	
21	宣紙	
22	泰維克紙	
23	晶舟盒	
24	導電片	
25	抗靜電紙	
26	捲帶	

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IEC/PAS 62596 Annex B 材料風險等級

Substances Risk of IEC/PAS 62596 Annex B

Components/ materials	IEC/PAS62596 Annex B 定義有害物質					
	Hg	Cd	Pb	Cr(VI)	PBBs	PBDEs
Printed wiring board(PWB)						
PWB substrate/laminate	L	L	L	L	L	N/A
Connector	M	L	H	L	L	H
Capacitor – electrolytic	L	M	H	L	L	M
Capacitor – chip-type	L	M	M	L	L	M
Resistor – IMT-type	L	M	H	L	L	L
Resistor – chip-type	L	H	M	L	L	L
Diode	L	M	M	L	L	L
Fuse	L	M	H	L	L	L
Solder	L	M	H	L	N/A	N/A
Glue (red and white)	L	L	M	L	M	M
Component termination coating	L	H	H	L	N/A	N/A
Component mouldings	L	L	L	L	L	H
Integrated circuit (IC) and BGAs	L	L	H	L	L	L
Relay – mercury	H	L	M	L	L	L
Relay – electromagnetic	L	H	M	L	L	L
Switch – mercury	H	L	M	L	L	L
Switch – mechanical	M	H	M	L	L	L
Thermostals	H	M	M	L	L	L
Flame sensors	H	M	M	L	L	L
Thermal imaging semiconductors	H	M	M	L	L	L
Transformer (LOT)	L	M	H	L	L	M
Accessories						
Remote controls	L	H	H	L	L	L
External cable (e.g. Scart, USB, cinch)	L	H	H	L	L	L
External power supplier	L	H	H	L	L	M
Materials						
Paint, ink similar coating	L	H	H	M	L	L
Polyurethane - high gloss	H	M	M	L	L	M
Polyvinyl chloride (PVC)	L	H	H	M	L	M
Styrene, polystyrene (HI-PS), ABS, polyethylene (PE), polyester	L	M	M	L	L	H
Rubber	L	M	M	L	L	M
Plastics, other	L	M	M	L	L	M
Colorants (all plastics) red, orange, yellow, pink, green	M	H	H	H	N/A	N/A
Steel - other	L	L	L	H	N/A	N/A
Steel - free-machining	L	L	H	L	N/A	N/A
Copper alloy	L	H	H	L	N/A	N/A



Components/ materials	IEC/PAS62596 Annex B 定義有害物質					
	Hg	Cd	Pb	Cr(VI)	PBBs	PBDEs
Aluminium alloy	L	L	H	L	N/A	N/A
Metallic chromium plating	L	L	L	L	N/A	N/A
Zinc coating	L	H	H	H	N/A	N/A
Other metallic coatings	L	H	L	H	N/A	N/A
Glass	L	M	H	M	N/A	N/A
Ceramics	L	M	H	L	N/A	N/A
Others	L	L	L	L	L	L

*L(Low probability) / M(Medium probability) / H(High probability) / N/A(Not applicable)



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有害物質不使用保證書(A)

為因應世界各國環保相關法令要求，立保證書人 _____ (以下簡稱 本公司) 特此保證:提供給久元電子股份有限公司及久元電子股份有限公司新竹園區分公司(以下簡稱「久元電子」) 所有產品或產品生產服務過程中所使用之原物料、溶劑、耗材及包裝材料，均符合國際相關環保法規及久元電子所制定的「綠色產品之禁限用物質管理規範(YT03-QA-016)」所示之管制內容。本公司茲保證提供的檢測結果與資料皆為正確且真實。

當本公司之原材料、製程材料變更時，本公司應主動提供變更通知予久元電子，並提供測試報告或變更報告以佐證不會影響環境危害物質之符合性。

若本公司違反「綠色產品之禁限用物質管理規範(YT03-QA-016)」及本保證書內容，致使久元電子遭受相關機關對久元電子處以罰鍰、罰金、或為其他處分，或久元電子之客戶或其他利害關係人因而對久元電子主張損害賠償或其他權利，致使久元電子遭受損害時，本公司應負損害賠償責任，包括但不限於訴訟費、律師費、商譽損失等。

此致

久元電子股份有限公司及久元電子股份有限公司新竹園區分公司

立保證書人：

授權代表：

職務：

公司地址：

日期：

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Declaration for Non-use of Hazardous Substances(A)

WHEREAS, _____ (called "We" hereinafter) We hereby declares and guarantees that :
All products and additives in service processes which are provided by us to YoungTek Electronics Corp. and YoungTek Electronics Corp. Science Based Park Branch (hereinafter referred to as "YTEC") shall be complied with the restrictions and non-use requirement under this Declaration.

We ensure the HS content that in raw materials, tools contacted products, solvents, consumables, and packing materials is compliance with EU RoHS (2011/95/EU), WEEE(2012/19/EC), PPW(94/62/EC, 2004/12/EC), SONY SS-00259(the latest version), and 'Banned Substances for Green Product Management Specification'(YT03-QA-016). From YTEC's requirement, we shall provide MCD, SDS, and substances test reports, issued by certificated laboratories. All information of the documents are correct and truth.

We acknowledge that breach of this guaranty may bring irreparable damages to YTEC and/or its customers. Under such circumstance, YTEC shall be entitled to reject any goods provided by us which contain the substances restricted by EU RoHS (2011/95/EU) 、WEEE(2012/19/EC) 、PPW(94/62/EC, 2004/12/EC) and/or SONY SS-00259, no matter when it is discovered, deduct the amount of damage from any payment(s) due to us, and we shall, within the period requested by YTEC, compensate YTEC and/or its customers for the damages caused therefore, without giving prejudice to any other legal rights of YTEC and/or its customers as stipulated by laws, regulations or any other agreement with us.

Company Name :

Company's responsible :

Address :

Date :

Company Stamp
Company Stamp

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有害物質不使用保證書(B)

為因應世界各國環保相關法令要求，立保證書人 _____ (以下簡稱 本公司) 特此保證:提供給久元電子股份有限公司及久元電子股份有限公司新竹園區分公司(以下簡稱「久元電子」) 所有環保產品或環保產品生產服務過程中所使用之原物料、溶劑、耗材及包裝材料，均符合 RoHS 環保法規所示之管制內容。本公司茲保證提供的檢測結果與資料皆為正確且真實。

當本公司之原材料、製程材料變更時，本公司應主動提供變更通知予久元電子，並提供測試報告或變更報告以佐證不會影響環境危害物質之符合性。

若本公司違反 RoHS 環保法規及本保證書內容，致使久元電子遭受相關機關對久元電子處以罰鍰、罰金、或為其他處分，或久元電子之客戶或其他利害關係人因而對久元電子主張損害賠償或其他權利，致使久元電子遭受損害時，本公司應負損害賠償責任，包括但不限於訴訟費、律師費、商譽損失等。

此致

久元電子股份有限公司及久元電子股份有限公司新竹園區分公司

立保證書人：

授權代表：

職務：

公司地址：

日期：

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Declaration for Non-use of Hazardous Substances(B)

WHEREAS, _____ (called “We” hereinafter) We hereby declares and guarantees that :
All green products and additives in service processes which are provided by us to YoungTek Electronics Corp. and YoungTek Electronics Corp. Science Based Park Branch (hereinafter referred to as “YTEC”) shall be complied with the restrictions and non-use requirement under this Declaration.

We will conform to the specification and requirement in detail upon the order issued by YTEC and do not contain the restricted substances pursuant to by EU RoHS (2011/95/EU). We shall provide a substances test report issued by a professional institute for reference, and all of the statement is correct and truth.

We acknowledge that breach of this guaranty may bring irreparable damages to YTEC and/or its customers. Under such circumstance, YTEC shall be entitled to reject any goods provided by us which contain the substances restricted by EU RoHS (2011/95/EU), no matter when it is discovered, deduct the amount of damage from any payment(s) due to us, and we shall, within the period requested by YTEC, compensate YTEC and/or its customers for the damages caused therefore, without giving prejudice to any other legal rights of YTEC and/or its customers as stipulated by laws, regulations or any other agreement with us.

Company Name :

Company's responsible :

Address :

Date :

Company Stamp

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衝突礦產政策聲明書 (Conflict Minerals Policy Declaration)

_____ (公司名, 以下稱“本公司”)本公司保證本公司及(或)本公司之關係企業所提供給久元電子股份有限公司及久元電子股份有限公司新竹園區分公司(以下簡稱「久元電子」)之零件、元件、材料及成品, 符合「衝突礦產政策」文件所要求之標準。身為良好的企業公民, 本公司自當善盡社會責任、尊重人權, 並持續關注衝突礦產議題, 致力詳實調查供應鏈, 以確保錫(Sn)、鉭(Ta)、鎢(W)、金(Au)、鈷(Co)、鈀(Pd)等金屬, 並非來自剛果民主共和國及其鄰近國家受武裝團體控制之礦區所開採。

因此, 本公司承諾:

_____ (Company Name, hereinafter referred as “Company”) as the supplier/vendor of YoungTek Electronics Corp. and YoungTek Electronics Corp. Science Based Park Branch (hereinafter referred to as “YTEC”), warrants that all of the parts, components, materials and products supplied by Company and/or its affiliates comply with the “Conflict Minerals Policy”. As a good corporate citizen, Company shall bear its social responsibility, respect the human rights, pay close attention to conflict minerals issues continuously, and make efforts to examine its supply chain with diligence to assure the metals sources of, including but not limited to, tin (Sn), tantalum (Ta), tungsten (W), gold (Au), cobalt (Co), and palladium (Pd) (hereinafter referred as “Conflict Minerals”) are not drifted from the mines of the Democratic Republic of Congo (DRC) and its neighboring countries (hereinafter referred as “Conflict Regions”) controlled by armed groups. Company hereby makes following commitments:

1. 不採購來自衝突區域所生產的衝突金屬。

Not to purchase Conflict Minerals from mines in the Conflict Regions.

2. 並要求所屬供應商拒絕使用來自衝突區域的衝突金屬, 並出具承諾書。

Request suppliers to refuse using Conflict Minerals from the Conflict Regions and present a signed letter of commitment.

3. 要求所屬供應商應將此要求傳達給其上下游供應商。

Request its suppliers to notify their upstream and downstream suppliers of such requirements.

此致

久元電子股份有限公司及久元電子股份有限公司新竹園區分公司

立聲明書人 Company:

代表人 Representative:

職務 Title:

日期 Date:

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<input type="checkbox"/> AOI <input type="checkbox"/> ATE 部件與風險清單						測試項目								
						Pb (鉛)	Cd (鎘)	Hg (汞)	Cr6+ (六價鉻)	PBB	PBDE	DEHP/DBP/ BBP/DIBP	Pb+Cd+Hg+ Cr6+	
類別	名稱	HS 風險 部件	供應 商	HS 管控方式 (必填選項)	HS 管控 Owner	1000 ppm (備註 1)	100 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm	各 1000ppm	Total:100ppm Cd < 5ppm	
生產用料(含包材)	(舉例)積體電路(IC)	本體	貿特	簽回保證書	採購	*	*	*	*	*	*	*		
		接腳	貿特	簽回保證書	採購	*	*	*	*					
	(舉例)電感類	一般電感 (DIP Inductor)	鐵芯	貿特	簽回保證書	採購	*	*	*	*				
			接腳	貿特	簽回保證書	採購	*	*	*	*				
		晶片電感	漆包線	貿特	簽回保證書	採購	*	*	*	*				
			塑膠座	貿特	簽回保證書	採購	*	*	*	*	*	*	*	
		整個進行評估	貿特	簽回保證書	採購	*	*	*	*					
生產用料-外購件														
生產耗材類														

註 1

- 鉛屬於排外條款6(a)：加工用途之鋼材及鍍鋅鋼的合金元素中，鉛含量不超過0.35%。(2011/65/EU)
- 鉛屬於排外條款7(b)：用於伺服器、記憶體和存儲系統和交換、信號和傳輸，以及電信網路管理的網路基礎設施/設備中焊料的鉛。(2011/65/EU)
- 鉛屬於排外條款7(c)-I：含鉛之玻璃或陶瓷的電器和電子元件，介電陶瓷電容器除外例如高壓電子裝置，或玻璃或陶瓷基複合材料。(2011/65/EU)
- 鉛屬於排外條款13(a)：光學應用之白玻璃中的鉛。(2011/65/EU)
- 鉛屬於排外條款13(b)：濾光玻璃及用來當做反射率標準片玻璃中的鉛及鎘。(2011/65/EU)
- 鉛屬於排外條款15：用於焊接半導體終端和集成電路板載體的焊料中含鉛量。(2011/65/EU)
- 鉛屬於排外條款25：表面傳導式電子發射顯示器 (SED) 之構件，特別是密封玻璃和環狀玻璃，所用的氧化鉛。(2011/65/EU)
- 鉛屬於排外條款32：用於氫和氫鎘射管防護窗組合件的封裝玻璃料裏的鉛的氧化物。(2011/65/EU)
- 鉛屬於排外條款33：涉及電源變壓器中直徑100 微米及以下細銅線所用焊料中的鉛。(2011/65/EU)

YT03-QA-016-06A

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