進宣科技股份有限公司

National Enhance Technology Corp.

環境有害物質限用規範

Environmental Restriction of Hazardous Substances Specification

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A02	2016/10/06	新增英文版 Added English version (Page 19) 更新部份指令(紅字)。 Update some directive(Red word).
A03	2016/12/27	Add REACH to item 170~173.
A04	2017/07/20	Add REACH to item 174.
A05	2018/01/18	Add REACH to item 181.
A06	2018/07/05	Add REACH to item 191.
A07	2019/02/15	Add REACH to item 197.
A08	2019/09/23	Add REACH to item 201. Add CP-65 Regulation.
A09	2020/04/10	Add REACH to item 205.
A10	2020/07/10	Add REACH to item 209.
A11	2021/01/25	Add REACH to item 211.
A12	2021/05/12	Add PBT Chemicals under TSCA Section 6(h)
A13	2021/07/16	Add REACH to item 219.
A14	2021/08/25	New TPCH requirements for U.S. packaging
A15	2022/02/07	Add REACH to item 223.
A16	2022/06/20	Add REACH to item 224. Add CMRT Hyperlink
A17	2023/01/30	Add REACH to item 233. 新增法國礦物油草案，美國加州 PFAS 法規
A18	2023/06/20	Add REACH to item 235.

1、 目的：

爲因應全球各國、各地國際環保法規要求，對危害人體或環境的物質進行管制，以及對該物質含量進行禁用或限用的要求，限制有害物質混入產品中，以便達到減輕環境及對生態影響之目的。故訂定本規範，以使管理標準能與國際同步並使供應商(及關係企業)有所遵循。

2、 範圍：

2.1. 適用於進宣科技股份有限公司、供應商(及關係企業)所直接或間接提供進行環保管控的產品所包含的零組件、材料、副資材及其他物品，這些均必須符合本規範所述之標準規定。

2.2. 本規範未明確規定之物質，如製造當地或國家法規明令禁用，必須按照規定執行。

3、 名詞定義(Definitions are reference only)：

3.1. 環境有害物質(Hazardous substance)：係指本規範所定義對人體、環境、生態有危害之物質。

3.2. 無危害物質(Hazardous substance free, HSF)：減量或排除表列於 WEEE 與 RoHS 指令或其他適用標準及法規中之任何物質。

3.3. 均質材料(Homogeneous materials)：係指零部件無法以機械外力拆解成不同組成。

3.4. 故意添加物質(Intentionally added)：爲了要改變產品或材料的物理或化學特性，於製造過程中故意添加特定物質，添加後該物質存在於產品或材料中。

3.5. 雜質(Natural impurity)：存在於天然材料之中，現有技術無法完成去除的物質，或合成反應過程中產生而在技術上無法完全去除之物質。

3.6. 包裝材料：指提供產品運輸保護到客戶端過程中所使用的包裝、防護、標示等材料(例：內外箱、塑膠袋、泡棉、油墨、標籤、脆盤、管(帶)狀包裝、束線帶…等)

3.7. 長時間皮膚接觸：係指產品接觸人體皮膚長達 10 分鐘以上。

3.8. 副資材：生產工序所使用的材料，例如焊錫、焊油、清洗劑、溶劑、治具…等。

3.9. 物質安全資料表簡稱MSDS，即Material Safety Data Sheet。由於其簡明扼要地記載化學物質的特性，故有人稱之爲“化學品的身分證”。它是化學物質的說明書；是化學

物質管理的基本工具；也是一份提供化學物質資訊之技術性文獻。其內容廣泛，包括過量暴露情況下的健康危害、操作、貯存或使用時的危害性評估、在過量暴露風險下，保護員工的方法、以及緊急處理步驟。

註：MSDS 每三年需更新(請參考 Regulation (EU) 2020/878)

3.10. 廢電機電子指令(Waste Electrical and Electronic Equipment，以下簡稱 WEEE)：由於電機電子等.設備產品其功能日新月異，產品生命週期相當短暫，造成其汰換與廢棄之速度往往也高於一般產品，若這些廢棄物沒有經過適當的處理程序，直接進入焚化或掩埋處理，其中大量之有害物質勢必會對環境造成嚴重之影響，也形成資源不必要的浪費；若能有適當的回收與處理機制，相對地必能大幅減輕環境之負荷有鑑於此，歐盟於 1998 年提出 WEEE 指令草案，並於 2003 年 2 月正式成爲歐盟 EU 2002/96/EC 指令。目前最新版本爲 **2012/19/EU** (於 2012 年 8 月 13 日生效)。

2018 年 8 月 15 日起，將原 10 大類重新分類爲 6 大類，包括「溫度交換設備」、「螢幕、監視器及螢幕面積大於 100 平方公分之設備」、「燈」、「大型設備(外部直徑大於 50 公分)」、「小型設備(外部直徑小於 50 公分)」、「小型電子通訊設備(外部直徑小於 50 公分)」等 6 大類電子電機產品。

3.11. 歐盟耗能產品環保設計指令(Energy-RelatedProducts，以下簡稱 ErP)：歐盟於 2009 年 10 月 31 日發布了 2009/125/EC(ErP 指令)以取代舊版的 EuP 指令 2005/32/EC，將產品範圍由耗能產品擴大至所有耗能相關產品(energy-related products)。

註：因應 ErP 指令，有關製造商的責任：

- 製造商應確保於市場流通之EuP符合本指令及該產品之實施方法之所有要求(生態化設計規格)
- 製造商應確保已針對該產品之「實施方法」中所有要求進行符合性評估(選擇「內部設計管理」(如附錄四)或從「環境管理系統」(如附錄5)開始進行符合性評估)
- EuP於市場流通前，應貼上「CE符合標示」，並出示「符合性宣告」，以確保並宣告該EuP符合其實施方法之所有規定
- 隨時備妥「符合性宣告」與「符合性技術文件」以供查驗，當歐盟會員國主管單位提出要求，需在10日之內備妥相關文件。

3.12. 電氣及電子設備使用某些危害物質限制指令（RoHS 2.0）2011/65/EU：歐盟於**2011 年 7 月 1 日公告新版 RoHS 指令(2011/65/EU)**，於 2013 年 1 月 3 日起，此指令取代原 RoHS 指令(2002/95/EC)及 2015 年 6 月 4 日公告更新 RoHS 指令 2015/863/EU，於 2019 年 7 月 22 日開始執行。

3.13. 化學品註冊、評估、授權與管制政策(Registration，Evaluation and Authorization of Chemicals System 以下簡稱 REACH)：爲 2003 年 10 月，歐盟化學署採用歐盟新化學管制的架構 COM(2003) 644，發表名爲 REACH 化學品登記、評估及授權之機制) 的新化學品政策。在 REACH 法規系統中，歐盟國生產或進口化學物質一噸/年以上的企業都將受到法規的管制，並向歐洲化學品管理局提交了所需的註冊檔案材料。

3.14. 聯合產業指南(Joint Industry Guide for Material Composition Declaration for Electronic Products，簡稱 JIG)：爲日本環保產品優先購入调查共通化協議會(Japan Green Procurement Survey Standardization Initiative，以下簡稱 JPGSSI)和美國電子工業聯盟 (Electronic Industries Association，以下簡稱 EIA)及歐洲信息訊技術工業協會(European Information& Communications Technology Association，以下簡稱 EICTA)攜手合作制定共通的調查指南研究，並於 2005 年 5 月發佈了 JIG。

3.15. 美國 H. R. 2420：爲了確保管制電器設備中的有害物質，美國眾議員 Michael Burgess 於 2009 年 5 月 14 日提交修訂《美國聯邦毒性物質管理法》(Toxic Substances Control Act of 1976，簡稱 TSCA）的法案《H.R. 2420：電氣設備環境保護設計法案》(Environmental Design of Electrical Equipment Act，簡稱 EDEE)至眾議院能源和商業委員會。

禁用物質要求 H.R.2420 中要求的限值和歐盟 RoHS 相同，自 2010 年 7 月 1 日起，在美國市場銷售的電器產品設備所採用的均質物料，其鉛、汞、六價鉻、聚溴聯苯(PBB)及聚溴聯苯醚(PBDE)含量，按重量計不得超過 0.1%，鎘含量不得超過 0.01%；被豁免者除外。

3.16. 美國環保署通過五項具有 PBTs 毒性的化學物質管理要求：

美國 TSCA 毒性物質管理法第六節是針對化學物質或混合物在製造、加工、分銷、使用或處置時，如果會對人類健康或環境安全造成損害與不合理的風險，則在某種程度上對此類物質或混合物進行必要的管理措施。

其中第 6(h)節主要是針對具有 PBT 毒性物質的管理要求，PBT 是 Persistent、

Bio-accumulative and Toxic 的縮寫，也就是對環境或人體具有持久性、生物蓄積性和有毒性的化學品。

美國環保署於 2020 年 12 月發布了五項 PBTs 物質的最終規則 40 CFR 751.401-751.413，以減少對某些持久性、生物蓄積性和有毒化學品的暴露，與成品 article 有關的規定概述如下：

物質名稱	限制要求	豁免要求
Decabromodiphenyl ether (DecaBDE) 十溴二苯醚 CAS No. 1163-19-5	- 2022 年 7 月 6 日之後，禁止用於酒店業的添 DecaBDE 窗簾的製造、加工和商業分銷 - 2021 年 3 月 8 日之後，禁止製造和加工其他 DecaBDE 的物品 - 2022 年 1 月 6 日之後，禁止進行商業分銷	商業上用於從物品中回收含 DecaBDE 的塑料以及由這種回收塑料製成的含 DecaBDE 的製品的商業加工和分銷，在回收或生產過程中未添加新的 DecaBDE
Phenol, isopropylated phosphate (3:1) [PIP (3:1)] 異丙基化磷酸三苯酯 CAS No. 68937-41-7	- 2022 年 1 月 1 日之後，禁止含 PIP (3:1)照相印刷物品的商業加工和分銷 - 2021 年 3 月 8 日之後，禁止其他含 PIP (3:1)物品的商業加工和分銷 PIP 延至 2024/10/31 後執行	- 用於從含 PIP (3:1)的物品中回收的塑料，其中在回收過程中未添加新的 PIP (3:1) - 從包含 PIP (3:1)的產品或物品中回收的塑料製成的成品，其中在生產由再生塑料製成的物品時未添加新的 PIP (3:1)
Pentachlorothiophenol (PCTP) 五氯硫酚 CAS No. 133-49-3	- 2021 年 3 月 8 日之後，禁止製造和加工 PCTP 含量超過 1%的物品 - 2022 年 1 月 6 日之後，禁止進行商業分銷	
Hexachlorobutadiene (HCBD) 六氯丁二烯 CAS No. 87-68-3	- 2021 年 3 月 8 日之後，禁止製造、加工和銷售含六氯丁二烯的物品	
2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP) 2,4,6 三-叔丁基苯酚 CAS No. 732-26-3	- 與成品使用無關	

3.17. China RoHS(SJ/T 11364) 與 GB/T 26572-2011《電子電氣產品中限用物質的限量要求》：中國大陸工信部已於 2016 年 1 月 21 日與其他 7 個部門正式公布"電器電子產品有害物質限制使用管理辦法"，也就是一般通稱之 China RoHS 2.0，此一管理辦法將於 2016 年 7 月 1 日起正式生效，同時原先於 2006 年 2 月 28 日公布的"電子信息產品污染控制管理辦法"亦將同時廢止。

3.18. 包材與包材廢棄物指令 (Directive 94/62/EC)： 自 1996 年執行以來限制四項重金屬在包裝材料和包裝成品中的限值。歐盟委員會於 2013 年 2 月 8 日發佈指令 2013/2/EU，修訂 Directive 94/62/EC 附件一所列舉的包材應用範例。此次修訂，主要是

增加說明範例，進一步闡明 Directive 94/62/EC 的產品範圍。新指令對包裝材料中有害物質：鉛、鎘、汞、六價鉻的四項總和要求維持不變，仍限定爲 100ppm。2013/2/EU 將於 2013 年 9 月 30 日起生效。

3.19. 美國加州法案 CP-65 (Proposition 65)

- 法案爲保護加州居民免受到會致癌症、生殖危害的化學物質污染其飲用水；並要求企業有這些化學物質曝露時要告知加州居民。
- 企業主有義務在知曉及意圖造成任何暴露在清單裡化學物質時，就要提供清楚及合理的警示標語(如放在商店醒目處)。
- 法規詳情請看www.P65Warnings.ca.gov
- 新版 CP-65 已於 2018/08/30 生效
- 新版標語範例如下，需醒目、清楚被理解。

WARNING

This product can expose you to chemicals including [name of one or more chemicals], which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov."

3.20.美國加州 PFAS(包含 PFOA/PFOS/PFCAs)

自 2026 年 7 月 1 日起，PFAS(全氟/多氟烷基化合物)或含有有意添加 PFAS 的產品或產品零部件的製造商(含進口商)，必須將在前一日曆年銷售、供銷、分銷或進口到加州的這些產品，在可公開訪問的數據收集界面上，註冊產品或產品零部件的狀態，及其他指定信息如下述:

3.21.1 有意添加 PFAS 的產品或產品零組件的名稱和類型。

3.21.2 含有有意添加 PFAS 的產品或產品零組件的通用產品代碼(UPC)。

3.21.3 有意添加 PFAS 用於產品或產品零組件的目的或功能。

3.21.4 有意添加 PFAS 的產品或產品零組件中所有 PFAS 化合物的種類和數量，需報告內容如下：

A. 辨識資訊：

每個 PFAS 化合物的具體名稱和 CAS No. (若兩個皆已知)。

每個 PFAS 化合物的具體名稱或 CAS No. (若只知道一個)。

含有 PFAS 產品的品牌或配方製造商的名稱，若 PFAS 具體名稱和 CAS No.均未知。

B. PFAS 的含量或重量應報告內容如下：

每種有意添加 PFAS 化合物的含量或重量(如果已知)。

如果每種有意添加 PFAS 化合物的含量或重量未知，則需揭露含有有意添加 PFAS 的產品或產品零組件中的總有機氟含量。

3.21.5 在上一日曆年銷售、交付或進口到加州的產品或產品零組件的數量。

3.21.6 製造商名稱、地址，製造商聯繫人姓名、地址、電話。

3.21. 美國 TPCH 包材法規

美國包裝材毒性物質訊息交流中心(Toxics in Packaging Clearinghouse, TPCH)於 2021 年 2 月 16 日發布包材中有害物質要求更新，禁止銷售或分裝含有 PFAS 之包裝或各別的包裝組件，任何包裝或各別的包裝組件中 PFAS 需爲未檢出；及禁止銷售或分裝含有鄰苯二甲酸酯類之包裝或各別的包裝組件，任何包裝或各別的包裝組件中非刻意添加之鄰苯二甲酸酯類濃度需小於 100ppm (0.01%)。於 2021 年前美國共有 19 個州已經接受此法規，禁止任何特地使用鉛、鎘、汞、六價鉻在包裝或各別的包裝組件中，且鉛、鎘、汞、六價鉻之濃度總合限值不得超過 100ppm。

3.22. 法國生態轉型部發佈礦物油草案，修改管控規範

2025 年 1 月 1 號進口法國開始限制。

重點：

1. 禁止使用礦物油適用於:

(1) 礦物油芳香烴 (MOAH)：上述物質在油墨中的質量濃度大於 0.1%。自 2025 年 1 月 1 日起，對於 3 至 7 個芳香環的化合物，質量濃度上限值爲十億分之一 (1 ppb)

(2) 礦物油飽和烴 (MOSH)：上述物質在油墨中的質量濃度大於 1%。自 2025 年 1 月 1 日起，質量濃度上限值爲 0.1%

2. 在 2023 年 1 月 1 日之前製造或進口的包裝和紙印刷品應從該日起給予不超過 12 個月的庫存處置期

3. 在上述規定所指的每個期限之前製造或進口的包裝和紙印刷品，如果符合在這些期限之前授權的規定，應給予自該期限起 12 個月的庫存處置期。

3.23. EU POPs 持久性有機汙染物法規：

持久性有機污染物(POPs)是指在環境中持續存在、在生物體內積累並對我們的健康和環境構成風險的有機物質。持久性有機污染物可以通過空運、水路或遷徙物種跨越國際邊界運輸，使得 POPs 出現或存在於未生產或使用過的地區，因此國際風險管理是必要的，POPs 在全球範圍內受到斯德哥爾摩公約和聯合國歐洲經濟委員會議定書的監管，歐盟爲了保護境內人民健康及環境制定 POPs 法規，該法規於 2004 年 5 月 20 日生效，主要的執行單位爲歐洲化學總署(European Chemical Agency, ECHA)。

■管制產品：

EU POPs 法規管控的產品範圍與 EU REACH 相同，將產品分類爲物質、混合物及成品(如下圖舉例所示)，除了少數排外項目可排除在 POPs 的規範之外(如:實驗室研究用或作爲標準品使用的物質等)，大多數產品皆須要符合 POPs 的規範。

■POPs 法規的管制項目：

POPs 法規對於物質在成品中的管控將其歸納在 Annex I 與 II 列表中，針對列入 Annex 1 中的管制物質禁止其作爲物質使用、製備或在成品中，除非滿足特定條件，而列入 Annex 2 中的管制物質限制其作爲物質使用、製備或在成品中，其中電子產品中可能存在的 POPs 法規規範物質項目如下表所示：

POP 物質	可能應用	POP 物質	可能應用
四 溴聯苯醚	阻燃劑	七 溴聯苯醚	阻燃劑
五 溴聯苯醚	阻燃劑	六溴聯苯(Hexabromobiphenyl)	阻燃劑
六 溴聯苯醚	阻燃劑	PCN (多氯化奈)	曾廣泛用于電容器及用作電線的絕緣化合物
六氯苯(Hexachlorobenzene)	可製造爆竹煙火、彈藥和合成橡膠，農業殺菌劑	PCB (多氯聯苯)	電容器及變壓器內的絕緣材料，也常作為塗料及溶劑使用，應用的範圍很廣
六氯-1,3-丁二烯	用作溶劑、熱載体、熱交換劑、水力系統用液体、洗液，也用于合成橡膠工業	PFOS	紡織品、鍋具、地毯、紙、塗料、消防泡沫、影像材料、航空液壓油等產品
SCCP (短鏈氯化石蠟)	做為塑化劑，阻燃劑用於各種塑膠中，皮革加工，金屬加工，油漆中	HBCDD (六溴環12烷)	阻燃劑，塑膠材料
十溴聯苯醚(DecBDE)	阻燃劑	PFOA	紡織品、鍋具、地毯、紙、塗料、消防泡沫、影像材料、航空液壓油等產品

4、 無衝突礦產： 進宣科技不接受產品所含有之金(Au)、鉭(Ta)、錫(Sn)、鎢(W)，其礦產來源來自剛果人民共和國或其他非法開採之礦區。 如供應商供應之材料成分含有上述金屬時，需額外提供此材料之熔煉廠資訊(包含熔煉廠名稱、所在國家、聯絡人等資訊)。

衝突礦產調查表最新版下載連結：

https://www.responsiblemineralsinitiative.org/reporting-templates/cmrt/

合格冶煉廠名單連結：

https://www.responsiblemineralsinitiative.org/smelters-refiners-lists/

冶煉廠高風險地區連結：

https://www.cahraslist.net/

5、 檢測報告要求：驗證單位須爲 ISO17025 或國家政府單位授權認證之驗證機構，且供應商須備有檢驗機構認可證照影本或可茲證明之文件，以便進宣科技查驗及確保實驗室之有效性。建議的合格實驗室有：SGS(台灣檢驗科技公司)、ETC(財團法人台灣電子檢驗中心)，及 ITS(全國公證檢驗中心)等合格實驗機構。

6、 如供應商提供原廠之符合性聲明書，聲明書內容至少須有**原廠名稱、地址、電話、負責人簽名、限用物質及含量限制數值。**

7、 限用物質含量管理標準：

7.1. RoHS2.0 (2011/65/EU)限用物質含量，EU 指令 2015/863：

管制物質	濃度限值	最新檢測手法	執行日期
鎘 (Cd)	0.01%	IEC62321-2013	即刻
鉛 (Pb)	0.1%	IEC62321-2013	即刻
汞 (Hg)	0.1%	IEC62321-2013	即刻
六價鉻 (Cr6+)	0.1%	IEC62321-7-1-2017	即刻
多溴聯苯 (PBB)	0.1%	IEC62321-6-2015	即刻
多溴二苯醚 (PBDE)	0.1%	IEC62321-6-2015	即刻
鄰苯二甲酸二(2-乙基己基)酯 (DEHP)	0.1%	IEC 62321-8:2017	2019/07/22
鄰苯二甲酸丁酯苯甲酯 (BBP)	0.1%	IEC 62321-8:2017	2019/07/22
鄰苯二甲酸二丁酯 (DBP)	0.1%	IEC 62321-8:2017	2019/07/22
鄰苯二甲酸二異丁酯 (DIBP)	0.1%	IEC 62321-8:2017	2019/07/22

註：關於排外條款，請自行參考官方網站。

7.2. 包材指令(94/62/EC) 限用物質含量：

管制物質	濃度限值	檢測手法	執行日期
鎘 (Cd)	100ppm	IEC62321-2013	即刻
鉛 (Pb)	100ppm	IEC62321-2013	即刻
汞 (Hg)	100ppm	IEC62321-2013	即刻
六價鉻 (Cr6+)	100ppm	IEC62321-2015	即刻

7.3. PFOS(2006/122/EC)限用物質含量：

管制物質	濃度限值	部件	執行日期
全氟辛烷磺酸鹽 (PFOS)	< 0.005%(w/w)	成品	2008/06/27
全氟辛烷磺酸鹽 (PFOS)	< 0.1%(w/w)	半成品、零件	2008/06/27

7.4. 歐盟電池指令(2013/56/EU)限用物質含量：

管制物質	要求	執行日期
鎘(Cd)	可攜式電池與蓄電池之鎘 (Cd)限值爲 0.002%	2017/01/01
	2017/01/01 取消無線電動工具排外，使用於該類產品之電池亦須符合 0.002%的要求。	
	排除項目: 使用於以下產品之可攜式電池與蓄電池則不受上述限值規範 a. 緊急照明及逃生系統 b. 醫療器材	
汞(Hg)	電池之汞 (Hg)限值一律爲 0.0005%，2015/10/01 取消鈕扣電池排外。	2015/10/01
	2014/10/01，將再評估助聽器所使用之鈕扣電池是否維持爲排除項目。	

7.5. REACH 限用物質含量： 至 2023/06/14 爲止，目前共有 235 項高度關注物質。

歐洲化學品管理局（ECHA）近期修訂了高度關注物質清單。
高度關注物質清單新增至總共 235 種 SVHCs。
該法律義務適用於列入候選名單的物質、其混合物或物品。
除 REACH 須符合外，也須關注 REACH 法規附件 **Annex 17** 是否符合。
任何物品含有以下物質，如同時符合以下兩種情形,其生產者及進口商應向歐洲化學品管理局（ECHA）通報：
每生產者/進口商物品中所含的此物質數量超過 1 噸/年；且此物質在物品中的濃度超過 0.1%。

高度關注物質 SVHCs 授權名單：本清單如未即時更新，請以歐盟化學品管制局所列清單爲主：http://echa.europa.eu/candidate-list-table

項次	檢測項目		EC Number	CAS Number
第一批管制物質(2008.10.09)				
1	蒽(綠油腦)	Anthracene	204-371-1	120-12-7
2	4,4’ -二氨基二苯甲烷	4,4’-Diaminodiphenylmethane	202-974-4	101-77-9
3	六溴環十二烷	Hexabromocyclododecane (HBCDD)	247-148-4	25637-99-4
4	氯化石臘	Short Chain Chlorinated Paraffins (C10~C13)	287-476-5	85535-84-8
5	二氯化鈷	Cobalt dichloride	231-589-4	7646-79-9
6	五氧化二砷	Diarsenic pentaoxide	215-116-9	1303-28-2
7	三氧化二砷	Diarsenic trioxide	215-481-4	1327-53-3
8	三乙基砷酸酯	Triethyl arsenate	427-700-2	15606-95-8
9	重鉻酸鈉	Sodium dichromate		7789-12-0
10	砷酸鉛	Lead hydrogen arsenate	232-064-2	7784-40-9
11	二甲苯麝香	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2
12	鄰苯二甲酸二丁酯	Dibutyl Phthalate (DBP)	201-557-4	84-74-2
13	鄰苯二甲酸二(2-乙基己基)酯	Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7
14	鄰苯二甲酸丁酯苯甲酯	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
15	氧化三丁錫	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9

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項次	檢測項目		EC Number	CAS Number
第二批管制物質(2010.01.13)				
16	蒽油	Anthracene oil	292-602-7	90640-80-5
17	蒽油，蒽湖，輕油	Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4
18	蒽油，蒽湖，蒽餾分	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
19	蒽油，含蒽量少	Anthracene oil, anthracene-low	292-604-8	90640-82-7
20	蒽油，蒽湖	Anthracene oil, anthracene paste	292-603-2	90640-81-6
21	鄰苯二甲酸二異丁酯	Diisobutyl phthalate	201-553-2	84-69-5
22	2，4-二硝基甲苯	2,4-Dinitrotoluene	204-450-0	121-14-2
23	煤瀝青，高溫	Coal tar pitch, high temperature	266-028-2	65995-93-2
24	三(2-氯乙基)磷酸酯	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8
25	鉻酸鉛(C.I.顏料黃 34)	Lead sulfochromate yel ow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
26	鉬鉻紅(C.I.顏料紅 104)	Lead chromate molybdate sulphate red(C.I. Pigment Red 104)	235-759-9	12656-85-8
27	鉻酸鉛(鉻黃)	Lead chromate	231-846-0	7758-97-6
28	丙烯醯胺	Acrylamide	201-173-7	79-06-1
第三批管制物質(2010.03.08)				
29	三氯乙烯	Trichloroethylene	201-167-4	79-01-6
30	硼酸	Boric acid	233-139-2 234-343-4	10043-35-3 11113-50-1
31	四硼酸二鈉(無水)	Disodium tetraborate, anhydrous	215-540-4	1330-43-4 12179-04-3 1303-96-4
32	水合硼酸納	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1

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項次	檢測項目		EC Number	CAS Number
33	鉻酸鈉	Sodium chromate	231-889-5	7775-11-3
34	鉻酸鉀	Potassium chromate	232-140-5	7789-00-6
35	重鉻酸銨	Ammonium dichromate	232-143-1	7789-09-5
36	重鉻酸鉀	Potassium dichromate	231-906-6	7778-50-9
第四批管制物質(2010.12.15)				
37	硫酸鈷	Cobalt(II) sulphate	203-839-2	111-15-9
38	硝酸鈷	Cobalt(II) dinitrate	232-142-6	2151068
39	碳酸鈷	Cobalt(II) carbonate	271-084-6	68515-42-4
40	醋酸鈷	Cobalt(II) diacetate	206-114-9	7803-57-8 302-01-2
41	乙二醇單甲醚	2-Methoxyethanol	212-828-1	872-50-4
42	乙二醇單乙醚	2-Ethoxyethanol	202-486-1	96-18-4
43	三氧化鉻	Chromium trioxide	276-158-1	71888-89-6
44	鉻酸及其低聚物產生的酸類： Acids generated from chromium trioxide and their oligomers			
	鉻酸	Chromic acid	231-801-5	7738-94-5
	重鉻酸	Dichromic acid	236-881-5	13530-68-2
	鉻酸及重鉻酸的低聚物	Oligomers of chromic acid and dichromic acid	-	-
第五批管制物質(2011.05.31)				
45	乙二醇乙醚醋酸酯	2-ethoxyethyl acetate	203-839-2	111-15-9
46	鉻酸鍶	Strontium Chromate	232-142-6	2151068
47	鄰苯二甲酸二鏈)烷基酯(C7-11 支鏈與直鏈)烷基酯	1,2-benzenedicarboxylic Acid, di-C7-11-branched and Linear Alkyl Esters	271-084-6	68515-42-4
48	聯安	Hydrazine	206-114-9	7803-57-8 302-01-2
49	1-甲基-2-吡咯烷酮	1-methyl-2-pyrrolidone	212-828-1	872-50-4
50	1,2,3-三氯丙烷	1,2,3-trichloropropane	202-486-1	96-18-4

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項次	檢測項目		EC Number	CAS Number
51	鄰苯二甲酸二(C6-8 支鏈與直鏈)烷基酯,富 C7	1,2-benzenedicarboxylic Acid, di-C6-8-branched Alkyl Esters, C7-rich	276-158-1	71888-89-6
第六批管制物質(2011.12.19)				
52	鉻酸鉻	Dichromium tris(chromate)	246-356-2	24613-89-6
53	氫氧化鉻酸鋅鉀	Potassium hydroxyoctaoxodizincatedi-chromate	234-329-8	11103-86-9
54	C.I.顏料黃 36	Pentazinc chromate octahydroxide	256-418-0	49663-84-5
55	矽酸鋁，耐火陶瓷纖維	Aluminosilicate Refractory Ceramic Fibres (RCF)	650-017-00-8*	-
56	氧化鋯矽酸，耐火陶瓷纖維	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	650-017-00-8*	-
57	甲醛和苯胺聚合物	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4
58	鄰苯二甲酸二甲氧乙酯	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
59	鄰甲氧基苯胺	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
60	對特辛基苯酚	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	205-426-2	140-66-9
61	1,2-二氯乙烷	1,2-Dichloroethane	203-458-1	107-06-2
62	二甘醇二甲醚	Bis(2-methoxyethyl) ether	203-924-4	111-96-6
63	砷酸	Arsenic acid	231-901-9	7778-39-4
64	砷酸鈣	Calcium arsenate	231-904-5	7778-44-1
65	砷酸鉛	Trilead diarsenate	222-979-5	3687-31-8
66	N,N-二甲基乙醯胺	N,N-dimethylacetamide (DMAC)	204-826-4	127-19-5
67	4,4'-烷， 二氨基-3,3'-二氯二苯甲烷	2,2'-dichloro-4,4'-methylenedianiline(MOCA)	202-918-9	101-14-4

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項次	檢測項目		EC Number	CAS Number
68	酚酞	Phenolphthalein	201-004-7	1977/9/8
69	疊氮化鉛	Lead azide Lead diazide	236-542-1	13424-46-9
70	收斂酸鉛	Lead styphnate	239-290-0	15245-44-0
71	苦味酸鉛	Lead dipicrate	229-335-2	6477-64-1
第七批管制物質(2012.06.18)				
72	三甘醇二甲醚	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
73	乙二醇二甲醚	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
74	三氧化二硼	Diboron trioxide	215-125-8	1303-86-2
75	甲醯胺	Formamide	200-842-0	75-12-7
76	甲基磺酸鉛	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
77	異氰尿酸三縮水甘油酯	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	219-514-3	2451-62-9
78	異氰脲酸 β-三縮水甘油酯	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	423-400-0	59653-74-6
79	米氏酮	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	202-027-5	90-94-8
80	4,4'-(對二甲氨基)二苯基甲烷	N,N,N',N'-tetramethyl-4,4'-methylenedianiline(Michler's base)	202-959-2	101-61-1
81	結晶紫；甲基紫；龍膽紫；鹼性紫 3	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9

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項次	檢測項目		EC Number	CAS Number
82	鹼性藍 26	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5
83	溶劑藍 4	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0
84	A,A氨基苯甲醇-二[(二甲氨基)苯基]-4-甲氨基苯甲醇	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1
第八批管制物質(正式公布 2012.12.19)				
85	十溴聯苯醚	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5
86	全氟十三酸	Pentacosafluorotridecanoic acid	276-745-2	72629-94-8
87	全氟十二烷酸	Tricosafluorododecanoic acid	206-203-2	307-55-1
88	全氟十一烷酸	Henicosafluoroundecanoic acid	218-165-4	2058-94-8
89	全氟代十四酸	Heptacosafluorotetradecanoic acid	206-803-4	376-06-7
90	偶氮二甲醯胺	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3
91	六氫鄰苯二甲酸酐	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3]	201-604-9 236-086-3 238-009-9	85-42-7 13149-00-3 14166-21-3

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項次	檢測項目		EC Number	CAS Number
92	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-甲基六氫苯二甲酯酐	Hexahydromethylphthalic anhydride [1] Hexahydro-4-methylphthalic anhydride [2] Hexahydro-1-methylphthalic anhydride [3] Hexahydro-3-methylphthalic anhydride [4]	247-094-12 43-072-0 256-356-4 260-566-1	25550-51-0 19438-60-9 48122-14-1 57110-29-9
93	支鏈及直鏈壬基酚-包括含有 9 個碳烷基鏈之所有獨立同分異構體及所有含有含直鏈或支鏈之 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]	-	-
94	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]	-	-
95	甲氧基乙酸	Methoxyacetic acid	210-894-6	625-45-6
96	N,N-二甲基甲醯胺	N,N-dimethylformamide	200-679-5	25174
97	二丁基二氯化錫	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
98	一氧化鉛	Lead monoxide (Lead oxide)	215-267-0	1317-36-8
99	四氧化三鉛	Orange lead (Lead tetroxide)	215-235-6	1314-41-6
100	氟硼酸鉛	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
101	鹼式碳酸鉛	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6

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項次	檢測項目		EC Number	CAS Number
102	鈦酸鉛	Lead titanium trioxide	235-038-9	12060-00-3
103	鈦酸鉛鋯	Lead titanium zirconium oxide	235-727-4	12626-81-2
104	矽酸鉛	Silicic acid, lead salt	234-363-3	11120-22-2
105	摻雜鉛的矽酸鋇	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped	272-271-5	68784-75-8
106	1-溴丙烷	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
107	1,2-環氧丙烷	Methyloxirane (Propylene oxide)	200-879-2	75-56-9
108	1, 2-苯二羧二戊酯（支鏈和直鏈）	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
109	鄰苯二甲酸二異戊酯	Diisopentylphthalate (DIPP)	210-088-4	605-50-5
110	鄰苯二甲酸正戊基異戊基酯	N-pentyl-isopentylphthalate	-	776297-69-9
111	乙二醇二乙醚	1,2-diethoxyethane	211-076-1	629-14-1
112	鹼式乙酸鉛	Acetic acid, lead salt, basic	257-175-3	51404-69-4
113	鹼式硫酸鉛	Lead oxide sulfate	234-853-7	12036-76-9
114	二鹽基鄰苯二甲酸鉛	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
115	雙(十八酸基)二氧代三鉛	Dioxobis(stearato)trilead	235-702-8	12578-12-0
116	C16-C18 脂肪酸鉛鹽 脂肪酸鉛鹽	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
117	氨基氰鉛鹽	Lead cynamidate	244-073-9	20837-86-9
118	硝酸鉛	Lead dinitrate	233-245-9	10099-74-8
119	氧化鉛與硫酸鉛的複合物	Pentalead tetraoxide sulphate	235-067-7	12065-90-6
120	顏料黃 41	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
121	亞硫酸鉛 (II)	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
122	四乙基鉛	Tetraethyllead	201-075-4	78-00-2
123	三鹼式硫酸鉛	Tetralead trioxide sulphate	235-380-9	12202-17-4

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124	磷酸氧化鉛	Trilead dioxide phosphonate	235-252-2	12141-20-7
125	呋喃	Furan	203-727-3	110-00-9
126	硫酸二乙酯	Diethyl sulphate	200-589-6	64-67-5
127	硫酸二甲酯	Dimethyl sulphate	201-058-1	77-78-1
128	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	421-150-7	143860-04-2
129	地樂酚	Dinoseb (6-sec-butyl-2,4-dinitro phenol)	201-861-7	88-85-7
130	4,4'-烷二胺基-3,3'-二甲基二苯甲烷	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
131	4,4'-二氨基二苯醚	4,4'-oxydianiline and its salts	202-977-0	101-80-4
132	4-胺基偶氮苯	4-aminoazobenzene	200-453-6	22162
133	2,4-二氨基甲苯	4-methyl-m-phenylene diamine (toluene-2,4-diamine)	202-453-1	95-80-7
134	2-甲氧基-5-甲基苯胺	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
135	4-胺基聯苯	Biphenyl-4-ylamine	202-177-1	92-67-1
136	鄰氨基偶氮甲苯	o-aminoazotoluene[(4-o-tolylazo-o-toluidine])	202-591-2	97-56-3
137	鄰-甲苯胺	o-toluidine	202-429-0	95-53-4
138	N-甲基乙醯胺	N-methylacetamide	201-182-6	79-16-3
第九批管制物質(2013.06.20)				
139	鎘	Cadmium	231-152-8	7440-43-9
140	氧化鎘	Cadmium oxide	215-146-2	1306-19-0
141	全氟辛酸銨	Ammoniumpentadecafluorootanoate (APFO)	223-320-4	3825-26-1
142	全氟辛酸	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
143	鄰苯二甲酸二戊酯	Dipentyl phthalate (DPP)	205-017-9	131-18-0

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144	分支或線性的乙氧化壬基酚，包括含有 9 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 9 個碳烷基鏈的 UVCB 物質	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-
第十批管制物質(2013.12.16)				
145	硫化鎘	Cadmium sulphide	215-147-8	1306-23-6
146	C.I.直系紅 28	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis (azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0
147	C.I.直系黑 38	Disodium 4-amino-3-[[4'-[(2,4-diamino-phenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7
148	鄰苯二甲酸二已酯	Dihexyl phthalate	201-559-5	84-75-3
149	1,2-亞乙基硫脲	Imidazolidine-2-thione ；2-imidazoline-2-thiol	202-506-9	96-45-7
150	醋酸鉛	Lead di(acetate)	206-104-4	301-04-2
151	磷酸三（二甲苯）酯	Trixylyl phosphate	246-677-8	25155-23-1

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第十一批管制物質(2014.06.16)				
152	氯化鎘	Cadmium chloride	233-296-7	10108-64-2
153	鄰苯二甲酸二己酯（支鏈和直鏈）	,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
154	過硼酸鈉	Sodium peroxometaborate	231-556-4	7632-04-4
155	過硼酸鈉水合物	Sodium perborate; perboric acid, sodium salt	239-172-9	234-390-0
第十二批管制物質(2014.12.17)				
156	氟化鎘	Cadmium fluoride	232-222-0	7790-79-6
157	硫酸鎘	Cadmium sulphate	233-331-6	10124-36-4 31119-53-6
158	2-苯并三唑-2-基-4,6-雙叔丁基苯酚(紫外線吸收劑-UV320)	2-benzotriazol-2-yl-4,6-di-tert-butylpheno l (UV-320)	223-346-6	3846-71-7
159	2-(2’-羥基-3’-5’-二叔戊基苯基）苯并三唑(紫外線吸收劑-UV328)	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1
160	二正辛基-双（2-乙基己基巯基乙酸酯）錫	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1
161	二正辛基-双（2-乙基己基巯基乙酸酯）錫和單辛基-三(2-乙基己基巯基乙酸酯）錫的反應物	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-

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第十三批管制物質(2015.06.15)				
162	烷基酯的混合物（鄰苯二甲酸二己酯含量≥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 (EC No. 201-559-5)	271-094-0 272-013-1	68515-51-5 68648-93-1
163	卡拉花醛及其同分異構物	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], -sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-
第十四批管制物質(2015.12.17)				
164	1,3-丙烷磺內酯	1,3-propanesultone	214-317-9	1120-71-4
165	紫外線吸收劑 UV-327	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
166	紫外線吸收劑 UV-350	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
167	硝基苯	Nitrobenzene	202-716-0	98-95-3
168	十七氟壬酸及其鈉鹽和銨鹽	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4
第十五批管制物質(2016.06.20)				
169	苯並(a)芘	Benzo[def]chrysene	200-028-5	50-32-8

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第十六批管制物質(2016.12.19)				
170	雙酚 A	4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7
171	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 [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]		
172	十九氟癸酸及其鈉和銨鹽	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	3108-42-7 335-76-2 3830-45-3
173	對(1,1-二甲基丙基)苯酚	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6
第十七批管制物質(2017.07.07)				
174	全氟已-1-磺酸及其鹽類	Perfluorohexane-1-sulphonic acid and its salts		
第十八批管制物質(2018.1.15)				
175	1,2-苯并菲;(【艹快】)	Chrysene	205-923-4	18-01-9
176	苯[a]蒽	Benz[a]anthracene	200-280-6	56-55-3
177	硝酸鎘	Cadmium nitrate	233-710-6	0325-94-7
178	氫氧化鎘	Cadmium hydroxide	244-168-5	21041-95-2
179	碳酸鎘	Cadmium carbonate	208-168-9	13-78-0

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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 combinationthereof]		
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]		
第十九批管制物質(2018.6.28)				
182	八甲基環四矽氧烷(D4)	Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2
183	十甲基環戊矽氧烷(D5)	Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6
184	十二甲基環己矽氧烷(D6)	Dodecamethylcyclohexasiloxane (D6)	208-762-8	540-97-6
185	鉛	Lead	231-100-4	7439-92-1
186	八硼酸二鈉	Disodium octaborate	234-541-0	12008-41-2
187	苯并[G,H,I]苝	Benzo[ghi]perylene	205-883-8	191-24-2
188	氫化聯三苯	Terphenyl hydrogenated	262-967-7	61788-32-7
189	乙二胺(EDA)	Ethylenediamine (EDA)	203-468-6	107-15-3
190	苯三甲酸酐 (TMA)	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	209-008-0	552-30-7
191	鄰苯二甲酸二環己酯(DCHP)	Dicyclohexyl phthalate(DCHP)	201-545-9	84-61-7

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第廿批管制物質(2019.1.15)				
192	2,2-雙(4'-羥苯基)-4-甲基戊烷	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6
193	苯并[k]1,2-苯并芘	Benzo[k]fluoranthene	205-916-6	207-08-9
194	1,2-苯并芘	Fluoranthene	205-912-4	206-44-0
195	菲	Phenanthrene	201-581-5	85-01-8
196	芘	Pyrene	204-927-3	129-00-0
197	1,7,7-三甲基-3-(苯亞甲基)雙環[2.2.1]庚-2-酮（3-亞苄基樟腦）	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8
第廿一批管制物質(2019.07.16)				
198	2,3,3,3-四氟-2-（七氟丙氧基）丙酸及其鹽和醯基鹵化物(包括任何含有獨立或組合的同分異構體物質) (HFPO-DA)	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-
199	甲氧基乙酸乙酯	2-methoxyethyl acetate	203-772-9	110-49-6
200	4-叔丁基苯酚	4-tert-butylphenol(PTBP)	202-679-0	98-54-4
201	三(4-壬基苯基，支鏈和直鏈)亞磷酸酯含0.1%W/W 的 4-壬基苯酚(支鏈和直鏈）TNPP	Tris(4-nonylphenyl,branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-

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第廿二批管制物質(2020.01.16)				
202	2-苄基-2-二甲基氨基-1-(4-嗎啉苯基)丁酮	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3
203	2-甲基-1-(4-甲硫基苯基)-2-嗎啡基-1-丙酮	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
204	二異己基鄰苯二甲酸酯	Diisohexyl phthalate	71850-09-4	276-090-2
205	全氟丁磺酸及其相關鹽類	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-
第廿三批管制物質(2020.06.30)				
206	1-乙烯基咪唑	1-vinylimidazole	214-012-0	1072-63-5
207	2-甲基咪唑	2-methylimidazole	211-765-7	693-98-1
208	4-羥基苯甲酸丁酯	Butyl 4-hydroxybenzoate	202-318-7	94-26-8
209	二正丁基雙(乙醯丙酮基)錫	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4
第廿四批管制物質(2021.01.19)				
210	四乙二醇二甲醚	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8
211	二月桂酸二辛基錫，錫烷，二辛基-，雙椰油醯氧基衍生物，及其它錫烷，二辛基-，雙脂肪醯氧基衍生物（其中 C12 爲脂肪醯氧基部分的主要碳原子數）	2-methylimidazole	-	-

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第廿五批管制物質(2021.07.8)				
212	1,4-二氧陸圜	1,4-dioxane	204-661-8	123-91-1
213	(1)2,2-雙(溴甲基)-1,3-丙二醇 (2)3-溴-2,2-雙(溴甲基)-1-丙醇 (3)2,3-二溴-1-丙醇	(1)2,2-bis(bromomethyl)propane1,3-diol (BMP) (2)2,2-dimethylpropan-1-ol, Tribromo derivative/ 3-bromo-2,2-bis(bromomethyl) -1-propanol (TBNPA) (3)2,3-dibromo-1-propanol (2,3-DBPA)	(1)221-967-7 (2)253-057-0 (3)202-480-9	(1)3296-90-0 (2)36483-57-5 1522-92-5 (3)96-13-9
214	2-(4-叔丁基苄基)丙醛及其個別立體異構物	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	201-289-8	80-54-6 75166-30-2 75166-31-3
215	雙酚 B	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	201-025-1	77-40-7
216	戊二醛	Glutaral	203-856-5	111-30-8
217	中鏈氯化石蠟[UVCB 物質包含大於或等於 80%的直鏈氯代烷烴，碳鏈長度在 C14 至 C17 範圍內]	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	287-477-0 - - 950-299-5	85535-85-9 198840-65-2 1372804-76-6
218	硼酸鈉鹽(群組)	Orthoboric acid, sodium salt (group)	215-604-1 237-560-2 - - - 238-253-6	1333-73-9 13840-56-7 25747-83-5 14890-53-0 22454-04-2 14312-40-4
219	經由低聚合反應烷基化的苯酚產物(主要在對位位置)帶有 12 個碳的支鏈或直鏈，並涵蓋各種同分異構物及/或其各種組合	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	310-154-3	74499-35-7 27147-75-7 - 27459-10-5 57427-55-1 210555-94-5

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第廿六批管制物質(2022.01.17)				
220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亞甲基]二環[2.2.1]庚烷-2-酮，包括各個異構體和/或其組合(4-MBC)	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene] bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	253-242-6	1782069-81-1; 95342-41-9; 852541-25-4; 36861-47-9; 741687-98-9; 852541-30-1; 852541-21-0
221	6,6'雙二叔丁基-2,2'-亞甲基雙對甲酚 (DBMC)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	204-327-1	119-47-1
222	硫-(三環[5.2.1.0'2,6]癸-3-烯-8(或 9)-基)氧-(異丙基或異丁基或2-乙基己基)氧-(異丙基或異丁基或2-乙基己基)二硫代磷酸酯	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	401-850-9	255881-94-8
223	三(2-甲氧基乙氧基)乙烯基矽烷	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4
第廿七批管制物質(2022.06.10)				
224	N-(羥甲基)丙烯醯胺	N-(hydroxymethyl)acrylamide	213-103-2	924-42-5
第廿八批管制物質(2023.01.17)				
225	1,2-雙(2,4,6-三溴苯氧基)乙烷	1,1'-[ethane-1,2-diylbis oxy]bis[2,4,6-tribromobenzene]	253-692-3	37853-59-1
226	四溴雙酚 A	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	201-236-9	79-94-7
227	雙酚 S	4,4'-sulphonyldiphenol	201-250-5	80-09-1

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項次	檢測項目		EC Number	CAS Number
第廿八批管制物質(2023.01.17) 續				
228	偏硼酸鋇	Barium diboron tetraoxide	237-222-4	13701-59-2
229	雙(2-乙基己基)四溴鄰苯二甲酸酯，覆蓋任何單個異構體和/或其組合	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-
230	4-羥基苯甲酸 2-甲基丙酯	Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3
231	三聚氰胺	Melamine	203-615-4	108-78-1
232	全氟庚酸及其鹽類	Perfluoroheptanoic acid and its salts	-	-
233	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)嗎啉和2,2,3,3,5,5,5,6,6-八氟烷-4-(七氟丙基)嗎啉的反應物料	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	473-390-7	-
第廿九批管制物質(2023.06.14)				
234	4,4'-二氯二苯基碸	(bis(4-chlorophenyl) sulphone)	-	80-07-9
235	(2,4,6-三甲基苯甲酰基)二苯基氧化膦	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)	-	75980-60-8

1、 **Purpuse**:

In response to International global environmental regulations, as for controlling the substances harmful to humans or the environment, plus the content of substances banned or restricted requirements that to limit the harmful substances mixed into the goods and to achieve the purpose of reducing the impact on the environment and ecology. Therefore, setting up this specification to enable management standards can be synchronized internationally and can be followed by the suppliers (and affiliated companies).

2、 **Scope of Application**:

2.1. Applying to Netsys, suppliers (and affiliates) directly or indirectly carry out environmental control products including spare parts, materials, Sub-materials and other articles that all need to comply with this specification.

2.2. Harmful substances not clearly mentioned in this specification, If they are banned by the local manufacturers or the nation's regulations, then the regulations must be followed.

3、 **Definitions**(reference only):

3.1. Hazardous substance: Substances which defined by this specification as hazardous toward human body, environment and ecology.

3.2. Hazardous substance free, HSF: Reduction or exclusion of any substances listed on WEEE or RoHS directives or on the other standards and regulations.

3.3. Homogeneous materials: Materials which defined are evenly mixed and can not be used mechanical power to separate into two different materials.

3.4. Intentionally added: To change a product's physical or chemical characteristics, a substance is added intentionally during the manufacturing process. Upon being added, the substance will continue to exist in the product or material.

3.5. Natural impurity: Substances which exist in the natural materials or are produced during the synthesis reaction process, and technically can not be fully removed.

3.6. Packaging materials: Materials which are used for packaging, protecting, labeling from the product's transportation protection to the customers (i.e. boxes, plastic bags, buffering materials, inks, labels, tray, tapes and cable ties)

3.7. Prolonged Skin contact: It means continually be in contact with the skin for more than 10 minutes.

3.8. Sub-materials: Materials used in the production process(i.e. solder, welding oil, cleaning agents, solvents, and fixture…etc.)

3.9. Material Safety Data Sheet(MSDS): Chemical materials are simply and clearly addressed on the material safety data sheet (MSDS), so it is also called the ID for the chemicals. It is the instructions for the chemical materials, and also the basic managing tool. It is also a technical literature which offers the chemical material's information. Its broad content which includes the health risks under over exposure, and the hazard evaluation during operation, storage and usage. Plus the methods for protecting workers and the emergency procedures under the over exposure risks.

Note: A qualified MSDS needs to be updated every three years.**(Regulation (EU) 2020/878)**

3.10. Waste Electrical and Electronic Equipment(WEEE): As the electrical and electronic products improve every day, the product's life cycle has shortened, and the speed to replace and discard them is much higher than the general products. If those waste materials have not been through the proper handling procedures, and being incinerated and buried directly, then most of the hazard materials will cause the environment a serious impact and unnecessary waste on the resources. If there is a proper recycling and processing mechanism, it can widely reduce the heavy burden for the environment. Officially became European Law as Directive 2002/96/EC in February 2003. Current version is 2012/19/EU(Started was August 13, 2012).

The EU WEEE Directive (Directive 2012/19/EU) introduced a number of changes to the original Directive (Directive 2002/96/EC), including an "Open Scope" of 6 revised categories instead of the previous 10, which according to the Directive are to be introduced from 15 August 2018. The Waste Electrical and Electronic Equipment Directive, which was made an EU law in February 2003, was instituted to set collection, recycling and recovery targets for electrical goods. The Directive sets the foundations for the creation of collection/compliance schemes. The aim of the schemes is to ensure waste electrical and electronic equipment (WEEE) is collected and reused or recycled.

The six new categories to be introduced are:

1. Temperature exchange equipment: fridges, freezers, air conditioning, etc.
2. Screens, monitors, and equipment containing screens having a surface greater than 100 cm2: TVs, computer monitors, etc.
3. Lamps
4. Large equipment (any external dimension more than 50cm): washing machines, dish washers, cookers, luminaires, large printers, copying equipment in general, etc.
5. Small equipment (no external dimension more than 50cm): vacuum cleaners, calculators, video cameras, cameras, hifi equipment, watches and clocks, smoke detectors, payment systems, etc.
6. Small IT and telecommunication equipment (no external dimension more than 50 cm): mobile phones, tablets, routers, laptops, GPS, printers, etc.

3.11. Energy-RelatedProducts(ErP): EU released the new version of Directive ErP 2009/125/EC on October 31, 2009 to replace the old version of Directive EuP 2005/32/EC. Enlarges the product range from energy-used products to energy-related products. Current version is 2009/125/EC.

Notes: Manufacturer responsibility:

- Manufacturers need to make sure all EuP circulated in market should comply with the current Directive ErP and all requirements for the products (Eco-design)
- Manufacturers need to make sure all product's requirements go through the compliance evaluation which starts from choosing Inner Design Management or Environment Management System.
- Before entering the market, please paste CE compliance sticker and show the declaration of conformity to ensure compliance with all EuP standards.
- Prepare the declaration of conformity and technical documentation for inspection at any time. When the EU Member States authorities make the request, the relevant documents need to be ready within 10 days.

3.12. RoHS 2.0(2011/65/EU): On July 1, 2011 EU released the new version of RoHS Directive(2011/65/EU) which replaced the original RoHS Directive(2002/95/EC) starting from January 3, 2013.

3.13. Registration，Evaluation and Authorization of Chemicals System(REACH):

In October 2003, European Chemicals Agency adopt the new EU chemical regulation architecture COM(2003)644, and released a new chemical policy called REACH for chemical's registration, evaluation and authorization. In REACH regulation system, the EU countries companies that produce or import chemicals above one ton / year will be subject to regulatory control, and need to submit the required registration file of materials to European Chemicals Management Bureau.

3.14. Joint Industry Guide for Material Composition Declaration for Electronic Products(JIG): Japan Green Procurement Survey Standardization Initiative (JPGSSI) works together with EIA and EICTA to develop a common guidelines survey research, and JIG was released in May 2005.

3.15. H. R. 2420: To ensure the control of hazardous substances in electrical equipment, US Rep. Michael Burgess submitted revised TSCA bill H.R.2420: **EDEE** to the House Energy and Commerce Committee in May 14, 2009. Since July 1, 2010 , the homogeneous materials used in electrical products that are sold In the US market, H.R.2420 required the standard to be the same as EU RoHS. The Pb, Hg, Cr6+, PBB, PBDE concentration does not exceed 0.1%(W/W); Cd concentration does not exceed 0.01%(W/W); Except those who are exempted.

3.16. Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under TSCA Section 6(h): As required under the Toxic Substances Control Act (TSCA), as amended by the Frank R. Lautenberg Chemical Safety for the 21st Century Act, EPA issued five final rules on January 6, 2021 to reduce exposures to certain chemicals that are persistent, bioaccumulative and toxic (PBT). These chemicals build up in the environment over time and can therefore have potential risks for exposed populations, including the general population, consumers and commercial users, and susceptible subpopulations (such as workers, subsistence fishers, tribes and children).

In March 2021, EPA announced a 60-day public comment period to collect additional input on these final rules. Additionally, EPA issued a temporary 180-day "No Action Assurance" indicating that the agency will exercise its enforcement discretion regarding the prohibitions on processing and distribution of PIP (3:1) for use in articles,

and the articles to which PIP (3:1) has been added in order to ensure that the supply chain of these important articles is not interrupted while EPA continues to collect the information needed to best inform subsequent regulatory efforts and allow for the issuance of a final agency action to extend the March 8, 2021, compliance date as necessary.

Website:

https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under

Chemical	Uses and Identified Hazards	Risk Management Actions
Decabromodiphenyl ether (DecaBDE)	DecaBDE is used as an additive flame retardant in plastic enclosures for televisions, computers, audio and video equipment, textiles and upholstered articles, wire and cables for communication and electronic equipment, and other applications. DecaBDE is also used as a flame retardant for multiple applications for aerospace and automotive vehicles, including replacement parts for aircraft and cars.	EPA is prohibiting the manufacture (including import), processing, and distribution in commerce of decaBDE, and products containing decaBDE, for all uses
Phenol, isopropylated phosphate (3:1) (PIP (3:1)) PIP Postponed until October 31, 2024	PIP (3:1) is used as a plasticizer, a flame retardant, an anti-wear additive, or an anti-compressibility additive in hydraulic fluid, lubricating oils, lubricants and greases, various industrial coatings, adhesives, sealants, and plastic articles. As a chemical that can perform several functions simultaneously,	EPA is prohibiting processing and distribution in commerce of PIP (3:1), and products containing the chemical substance, for all uses EPA is requiring that persons manufacturing, processing, and distributing in commerce PIP (3:1) and products containing PIP (3:1) notify their customers of these

		sometimes under extreme conditions, it has several distinctive applications.	restrictions. EPA is also prohibiting releases to water from the remaining manufacturing, processing, and distribution in commerce activities, and requiring commercial users of PIP (3:1) and PIP (3:1)-containing products to follow existing regulations and best practices to prevent releases to water during use.
	2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	2,4,6-TTBP is used as an intermediate/reactant in processing and is incorporated into formulations destined for fuel and fuel-related additives, as well as into formulations intended for the maintenance or repair of motor vehicles and machinery, including in oils and lubricants.	EPA is prohibiting the distribution in commerce of 2,4,6-TTBP and products containing 2,4,6-TTBP at concentrations above 0.3% by weight in any container with a volume of less than 35 gallons in order to effectively prevent the use of 2,4,6-TTBP as a fuel additive or fuel injector cleaner by consumers and small commercial operations (e.g., automotive repair shops, marinas). EPA is also prohibiting the processing and distribution in commerce of 2,4,6-TTBP, and products containing 2,4,6-TTBP, for use as an oil or lubricant additive in concentrations above 0.3% by weight regardless of container size.

Hexachlorobutadiene (HCBD)	HCBD is used as a halogenated aliphatic hydrocarbon that is produced as a byproduct during the manufacture of chlorinated hydrocarbons, particularly perchloroethylene, trichloroethylene, and carbon tetrachloride and is subsequently burned as a waste fuel.	EPA is prohibiting the manufacturing (including import), processing, and distribution in commerce of HCBD and HCBD-containing products or articles, except for the unintentional production of HCBD as a byproduct during the production of chlorinated solvents, and the processing and distribution in commerce of HCBD for burning as a waste fuel.
Pentachlorothiophenol (PCTP)	PCTP, which is also called PCTP, is used to make rubber more pliable in industrial uses.	EPA is prohibiting the manufacture (including import), processing, and distribution in commerce of PCTP, and products or articles containing PCTP, unless PCTP concentrations are at or below 1% by weight.

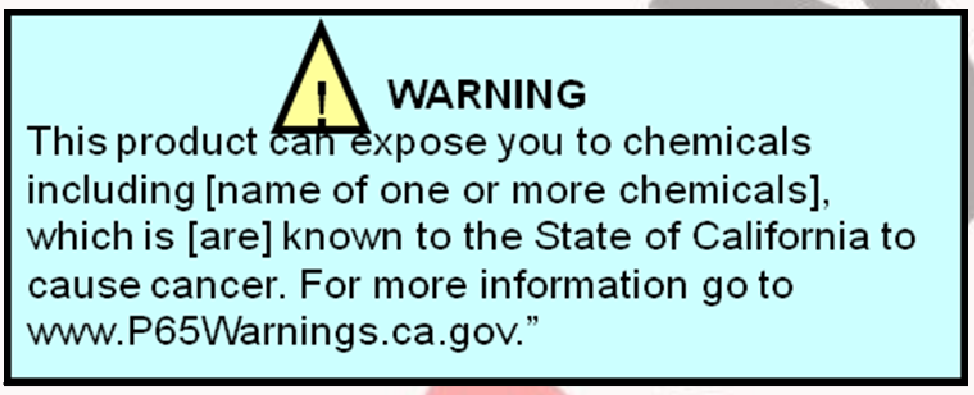
3.17. China RoHS(SJ/T 11364) and GB/T 26572-2011: In January 21, 2016, the Chinese authority officially released the "electrical and electronic products restrict the use of hazardous substances management approach" which was called China RoHS 2.0. This management approach will come into effect from July 1, 2016. The old approach released on February 28, 2006 will be abolished the same time.

3.18. Directive of Packaging and Packaging Waste (Directive 94/62/EC): To restrict four heavy metal's limit value in packaging materials and article since 1996 execution, The European Commission released Directive 2013/2 / EU on February 8, 2013 which revised Directive 94/62/EC. The revision added more examples to explain, and further elaborate Derective 94/62/EC product range. The new directive required the sum of the four hazardous substances of packaging material(Pb, Cd, Hg, Cr6+) remains

unchanged which is still limited to 100ppm. 2013/2/EU will come into effect from Sep 30, 2013.

3.19. Proposition 65(CP-65)

CA Prop 65 compliance services relate to the Safe Drinking Water and Toxic Enforcement Act, 1986 (also known as Proposition 65), which is a California law that was set out to promote clean drinking water and inform the public about the presence of toxic substances that cause cancer and/or birth defects in consumer products and their environment. The CA-65 is starting from August 30, 2018, and please refer to the below hyperlink as www.P65Warnings.ca.gov to further information.



3.20. TPCH Model Legislation

In February 2021, the Toxics in Packaging Clearinghouse (TPCH) announced the organization's 2021 update to their Model Toxics in Packaging Legislation. The previous version of the Model (as revised in 2012) can be found here. The update includes the addition of the class of perfluoroalkyl and polyfluoroalkyl substances (PFAS) and ortho-phthalates as regulated chemicals, as well as new processes and criteria for identifying and regulating additional chemicals of high concern in packaging. The previous (prior to 2021) TPCH Model Legislation and laws enacted in 19 states prohibit the intentional use of cadmium, lead, mercury, and hexavalent chromium in any finished package or packaging component. The laws also limit the total incidental concentration of the four metals to 100 ppm. Incidental concentration may result from the use of post-consumer recycled content to manufacture new packaging and components. The laws take a pollution prevention approach by prohibiting intentional use, and they place the primary burden of compliance on the supply chain by requiring manufacturers and suppliers to verify that their products are in compliance.

In June 2020, the Toxics in Packaging Clearinghouse (TPCH) announced it was seeking comments on the organization's draft update to their Toxics in Packaging Model Legislation. The update includes the addition of PFAS and phthalates as regulated chemicals, as well as new processes for identifying additional chemicals of high concern in packaging.

4、 **Metal Conflict-Free Minerals**: National Enhance Technology Corp. does not accept products containing the Gold (Au), Tantalum (Ta) , Tin (Sn), Tungsten (W) and Cobalt (Co) which mineral sources come from the Democratic Republic of Congo (DRC) or illegally taxed on trade routes, either of which are controlled by non-governmental military groups, or unlawful military factions. If the suppliers provide such material ingredients containing the above metal, then the additional smelter Information (including smelting plant name, country area, contacts and other information.) is required.

Conflict Minerals Reporting Template:
https://www.responsiblemineralsinitiative.org/reporting-templates/cmrt/
Active Smelter & Refiner Lists:
https://www.responsiblemineralsinitiative.org/smelters-refiners-lists/
Conflict-affected and high-risk areas:
https://www.cahraslist.net/

5、 **Test reporting requirements**: The certification unit shall be ISO 17025 or a certification body accredited by the national government authority, and the supplier shall have a photocopy of the certificate of accredited by an inspection body or any other certificate documents, so that Netsys can check and ensure the effectiveness of the laboratory. Some recommend qualified laboratories: SGS, ETC, ITS and etc.

6、 If the suppliers provide the declaration of conformity from the original manufacturers, the statement needs to include the name, address and telephone of the manufacturer, legal signature of the person in charge, and the restricted substances and limit values.

7、 Restricted substance content management standard：

7.1. RoHS2.0 (2011/65/EU) restricted substance content, EU Driective 2015/863：

Controlled Substances	Concentration limit	Detection methods	Execution date
Cd	0.01%	IEC62321-2013	Immediately
Pb	0.1%	IEC62321-2013	Immediately
Hg	0.1%	IEC62321-2013	Immediately
Cr6+	0.1%	IEC62321-7-1-2017	Immediately
PBB	0.1%	IEC62321-6-2015	Immediately
PBDE	0.1%	IEC62321-6-2015	Immediately
DEHP	0.1%	IEC 62321-8:2017	2019/07/22
BBP	0.1%	IEC 62321-8:2017	2019/07/22
DBP	0.1%	IEC 62321-8:2017	2019/07/22
DIBP	0.1%	IEC 62321-8:2017	2019/07/22

註：Regarding exemption items, please refer to the official website。

7.2. Directive of Packaging (94/62/EC) restricted substance content:

Controlled Substances	Concentration limit	Detection methods	Execution date
Cd	100ppm	IEC62321-2013	Immediately
Pb	100ppm	IEC62321-2013	Immediately
Hg	100ppm	IEC62321-2013	Immediately
Cr6+	100ppm	IEC62321-2015	Immediately

7.3. PFOS(2006/122/EC) restricted substance content:

Controlled Substances	Concentration limit	Part	Execution date
PFOS	< 0.005%(w/w)	Article	2008/06/27
PFOS	< 0.1%(w/w)	Semi-finished products, part	2008/06/27

7.4. EU BATTERY DIRECTIVE (2013/56/EU) restricted substance content:

Controlled Substances	Request	Execution date
Cd	Portable battery and battery cadmium limit of 0.002%	2017/01/01
	2017/01/01 Eliminate the exclusion of wireless power tools，it must also comply the upper limit of 0.002%。	
	Exclusions: Portable batteries and accumulators used in the following products are not subject to these limits a. Emergency lighting and escape systems b. medical equipment	
Hg	Battery Hg limit of 0.0005%. 2015/10/01, cancel the button battery exemption。	2015/10/01
	2014/10/01，will reevaluate whether the button cell used by the hearing aid is maintained as an excluded item。	

7.5. REACH restricted substance content:

REACH increased to 235 SVHC items on 2023/06/14.

Please note that Annex 17 of the REACH regulation also needs to comply with.

SVHC List of Substances of Very High Concern：If the list below does not updated timely, please refer to the list chemicals listed in the ECHA website：
http://echa.europa.eu/candidate-list-table

NO.	Detection Items	EC Number	CAS Number
First Controlled Substances (2008.10.09)			
1	Anthracene	204-371-1	120-12-7
2	4,4'-Diaminodiphenylmethane	202-974-4	101-77-9
3	Hexabromocyclododecane (HBCDD)	247-148-4	25637-99-4
4	Short Chain Chlorinated Paraffins (C10~C13)	287-476-5	85535-84-8
5	Cobalt dichloride	231-589-4	7646-79-9
6	Diarsenic pentaoxide	215-116-9	1303-28-2
7	Diarsenic trioxide	215-481-4	1327-53-3
8	Triethyl arsenate	427-700-2	15606-95-8
9	Sodium dichromate		7789-12-0
10	Lead hydrogen arsenate	232-064-2	7784-40-9
11	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2
12	Dibutyl Phthalate (DBP)	201-557-4	84-74-2
13	Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7
14	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
15	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9

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NO.	Detection Items	EC Number	CAS Number
Second Controlled Substances (2010.01.13)			
16	Anthracene oil	292-602-7	90640-80-5
17	Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4
18	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
19	Anthracene oil, anthracene-low	292-604-8	90640-82-7
20	Anthracene oil, anthracene paste	292-603-2	90640-81-6
21	Diisobutyl phthalate	201-553-2	84-69-5
22	2,4-Dinitrotoluene	204-450-0	121-14-2
23	Coal tar pitch, high temperature	266-028-2	65995-93-2
24	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8
25	Lead sulfochromate yel ow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
26	Lead chromate molybdate sulphate red(C.I. Pigment Red 104)	235-759-9	12656-85-8
27	Lead chromate	231-846-0	7758-97-6
28	Acrylamide	201-173-7	79-06-1
Third Controlled Substances (2010.03.08)			
29	Trichloroethylene	201-167-4	79-01-6
30	Boric acid	233-139-2 234-343-4	10043-35-3 11113-50-1
31	Disodium tetraborate, anhydrous	215-540-4	1330-43-4 12179-04-3 1303-96-4
32	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
33	Sodium chromate	231-889-5	7775-11-3
34	Potassium chromate	232-140-5	7789-00-6
35	Ammonium dichromate	232-143-1	7789-09-5
36	Potassium dichromate	231-906-6	7778-50-9

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NO.	Detection Items	EC Number	CAS Number
Fourth Controlled Substances (2010.12.15)			
37	Cobalt(II) sulphate	203-839-2	111-15-9
38	Cobalt(II) dinitrate	232-142-6	2151068
39	Cobalt(II) carbonate	271-084-6	68515-42-4
40	Cobalt(II) diacetate	206-114-9	7803-57-8 302-01-2
41	2-Methoxyethanol	212-828-1	872-50-4
42	2-Ethoxyethanol	202-486-1	96-18-4
43	Chromium trioxide	276-158-1	71888-89-6
44	Acids generated from chromium trioxide and their oligomers:		
	Chromic acid	231-801-5	7738-94-5
	Dichromic acid	236-881-5	13530-68-2
	Oligomers of chromic acid and dichromic acid	-	-
Fifht Controlled Substances (2011.05.31)			
45	2-ethoxyethyl acetate	203-839-2	111-15-9
46	Strontium Chromate	232-142-6	2151068
47	1,2-benzenedicarboxylic Acid, di-C7-11-branched and Linear Alkyl Esters	271-084-6	68515-42-4
48	Hydrazine	206-114-9	7803-57-8 302-01-2
49	1-methyl-2-pyrrolidone	212-828-1	872-50-4
50	1,2,3-trichloropropane	202-486-1	96-18-4
51	1,2-benzenedicarboxylic Acid, di-C6-8-branched Alkyl Esters, C7-rich	276-158-1	71888-89-6

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NO.	Detection Items	EC Number	CAS Number
Sixth Controlled Substances (2011.12.19)			
52	Dichromium tris(chromate)	246-356-2	24613-89-6
53	Potassium hydroxyoctaoxodizincatedi-chromate	234-329-8	11103-86-9
54	Pentazinc chromate octahydroxide	256-418-0	49663-84-5
55	Aluminosilicate Refractory Ceramic Fibres (RCF)	650-017-00-8*	-
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	650-017-00-8*	-
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4
58	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
59	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	205-426-2	140-66-9
61	1,2-Dichloroethane	203-458-1	107-06-2
62	Bis(2-methoxyethyl) ether	203-924-4	111-96-6
63	Arsenic acid	231-901-9	7778-39-4
64	Calcium arsenate	231-904-5	7778-44-1
65	Trilead diarsenate	222-979-5	3687-31-8
66	N,N-dimethylacetamide (DMAC)	204-826-4	127-19-5
67	2,2'-dichloro-4,4'-methylenedianiline(MOCA)	202-918-9	101-14-4
68	Phenolphthalein	201-004-7	1977/9/8
69	Lead azide Lead diazide	236-542-1	13424-46-9
70	Lead styphnate	239-290-0	15245-44-0
71	Lead dipicrate	229-335-2	6477-64-1

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NO.	Detection Items	EC Number	CAS Number
Seventh Controlled Substances (2012.06.18)			
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
74	Diboron trioxide	215-125-8	1303-86-2
75	Formamide	200-842-0	75-12-7
76	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	219-514-3	2451-62-9
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	423-400-0	59653-74-6
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline(Michler's base)	202-959-2	101-61-1
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1

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NO.	Detection Items	EC Number	CAS Number
Eighth Controlled Substances (正式公布 2012.12.19)			
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5
86	Pentacosafluorotridecanoic acid	276-745-2	72629-94-8
87	Tricosafluorododecanoic acid	206-203-2	307-55-1
88	Henicosafluoroundecanoic acid	218-165-4	2058-94-8
89	Heptacosafluorotetradecanoic acid	206-803-4	376-06-7
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3
91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3]	201-604-9 236-086-3 238-009-9	85-42-7 13149-00-3 14166-21-3
92	Hexahydromethylphthalic anhydride [1] Hexahydro-4-methylphthalic anhydride [2] Hexahydro-1-methylphthalic anhydride [3] Hexahydro-3-methylphthalic anhydride [4]	247-094-12 43-072-0 256-356-4 260-566-1	25550-51-0 19438-60-9 48122-14-1 57110-29-9
93	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
95	Methoxyacetic acid	210-894-6	625-45-6
96	N,N-dimethylformamide	200-679-5	25174
97	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
98	Lead monoxide (Lead oxide)	215-267-0	1317-36-8
99	Orange lead (Lead tetroxide)	215-235-6	1314-41-6
100	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
101	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6

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NO.	Detection Items	EC Number	CAS Number
102	Lead titanium trioxide	235-038-9	12060-00-3
103	Lead titanium zirconium oxide	235-727-4	12626-81-2
104	Silicic acid, lead salt	234-363-3	11120-22-2
105	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped	272-271-5	68784-75-8
106	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
107	Methyloxirane (Propylene oxide)	200-879-2	75-56-9
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
109	Diisopentylphthalate (DIPP)	210-088-4	605-50-5
110	N-pentyl-isopentylphthalate	-	776297-69-9
111	1,2-diethoxyethane	211-076-1	629-14-1
112	Acetic acid, lead salt, basic	257-175-3	51404-69-4
113	Lead oxide sulfate	234-853-7	12036-76-9
114	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
115	Dioxobis(stearato)trilead	235-702-8	12578-12-0
116	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
117	Lead cynamidate	244-073-9	20837-86-9
118	Lead dinitrate	233-245-9	10099-74-8
119	Pentalead tetraoxide sulphate	235-067-7	12065-90-6
120	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
121	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
122	Tetraethyllead	201-075-4	78-00-2
123	Tetralead trioxide sulphate	235-380-9	12202-17-4
124	Trilead dioxide phosphonate	235-252-2	12141-20-7
125	Furan	203-727-3	110-00-9

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NO.	Detection Items	EC Number	CAS Number
126	Diethyl sulphate	200-589-6	64-67-5
127	Dimethyl sulphate	201-058-1	77-78-1
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidin e	421-150-7	143860-04-2
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
130	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
131	4,4'-oxydianiline and its salts	202-977-0	101-80-4
132	4-aminoazobenzene	200-453-6	22162
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
134	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
135	Biphenyl-4-ylamine	202-177-1	92-67-1
136	o-aminoazotoluene[(4-o-tolylazo-o-toluidine])	202-591-2	97-56-3
137	o-toluidine	202-429-0	95-53-4
138	N-methylacetamide	201-182-6	79-16-3
Ninth Controlled Substances (2013.06.20)			
139	Cadmium	231-152-8	7440-43-9
140	Cadmium oxide	215-146-2	1306-19-0
141	Ammoniumpentadecafluorootanoate (APFO)	223-320-4	3825-26-1
142	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
143	Dipentyl phthalate (DPP)	205-017-9	131-18-0
144	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]	-	-

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NO.	Detection Items	EC Number	CAS Number
Tenth Controlled Substances (2013.12.16)			
145	Cadmium sulphide	215-147-8	1306-23-6
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis (azo)]bis(4-aminonaphthalene-1-sulphon ate) (C.I. Direct Red 28)	209-358-4	573-58-0
147	Disodium 4-amino-3-[[4'-[(2,4-diamino-phenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hy droxy-6-(phenylazo)naphthalene-2,7-dis ulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7
148	Dihexyl phthalate	201-559-5	84-75-3
149	Imidazolidine-2-thione；2-imidazoline-2-thiol	202-506-9	96-45-7
150	Lead di(acetate)	206-104-4	301-04-2
151	Trixylyl phosphate	246-677-8	25155-23-1
Eleventh Controlled Substances (2014.06.16)			
152		233-296-7	10108-64-2
153	,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
154	Sodium peroxometaborate	231-556-4	7632-04-4
155	Sodium perborate; perboric acid, sodium salt	239-172-9	234-390-0
Twelfth Controlled Substances (2014.12.17)			
156	Cadmium fluoride	232-222-0	7790-79-6
157	Cadmium sulphate	233-331-6	10124-36-4 31119-53-6
158	2-benzotriazol-2-yl-4,6-di-tert-butylpheno l (UV-320)	223-346-6	3846-71-7
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylp henol (UV-328)	247-384-8	25973-55-1
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1
161	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoet hyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-

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NO.	Detection Items	EC Number	CAS Number
Thirteenth Controlled Substances (2015.06.15)			
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters；1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ? 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094-0 272-013-1	68515-51-568 648-93-1
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-e n-1-yl)-5-methyl-1,3-dioxane [1], -sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-
Fourteenth Controlled Substances (2015.12.17)			
164	1,3-propanesultone	214-317-9	1120-71-4
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
167	Nitrobenzene	202-716-0	98-95-3
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4
Fifteenth Controlled Substances (2016.06.20)			
169	Benzo[def]chrysene	200-028-5	50-32-8

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NO.	Detection Items	EC Number	CAS Number
Sixteenth Controlled Substances (2016.12.19)			
170	4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7
171	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	3108-42-7 335-76-2 3830-45-3
173	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6
Seventeenth Controlled Substances (2017.07.07)			
174	Perfluorohexane-1-sulphonic acid and its salts	-	-
Eighteenth Controlled Substances (2018.01.15)			
175	Chrysene	205-923-4	18-01-9
176	Benz[a]anthracene	200-280-6	56-55-3
177	Cadmium nitrate	233-710-6	0325-94-7
178	Cadmium hydroxide	244-168-5	21041-95-2
179	Cadmium carbonate	208-168-9	13-78-0
180	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 combinationthereof]	-	-
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	-

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NO.	Detection Items	EC Number	CAS Number
Nineteenth Controlled Substances (2018.06.28)			
182	Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2
183	Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6
184	Dodecamethylcyclohexasiloxane (D6)	208-762-8	540-97-6
185	Lead	231-100-4	7439-92-1
186	Disodium octaborate	234-541-0	12008-41-2
187	Benzo[ghi]perylene	205-883-8	191-24-2
188	Terphenyl hydrogenated	262-967-7	61788-32-7
189	Ethylenediamine (EDA)	203-468-6	107-15-3
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	209-008-0	552-30-7
191	Dicyclohexyl phthalate(DCHP)	201-545-9	84-61-7
Twentieth Controlled Substances (2019.01.15)			
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6
193	Benzo[k]fluoranthene	205-916-6	207-08-9
194	Fluoranthene	205-912-4	206-44-0
195	Phenanthrene	201-581-5	85-01-8
196	Pyrene	204-927-3	129-00-0
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8
21st Controlled Substances (2019.07.16)			
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-
199	2-methoxyethyl acetate	203-772-9	110-49-6
200	4-tert-butylphenol(PTBP)	202-679-0	98-54-4
201	Tris(4-nonylphenyl,branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-

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NO.	Detection Items	EC Number	CAS Number
22st Controlled Substances (2020.01.16)			
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
204	Diisohexyl phthalate	71850-09-4	276-090-2
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-
23st Controlled Substances (2021.06.30)			
206	1-vinylimidazole	214-012-0	1072-63-5
207	2-methylimidazole	211-765-7	693-98-1
208	Butyl 4-hydroxybenzoate	202-318-7	94-26-8
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4
24st Controlled Substances (2021.01.19)			
210	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-

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NO.	Detection Items	EC Number	CAS Number
25st Controlled Substances (2021.07.08)			
212	1,4-dioxane	204-661-8	123-91-1
213	(1)2,2-bis(bromomethyl)propane1,3-diol (BMP) (2)2,2-dimethylpropan-1-ol, Tribromo derivative/ 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) (3)2,3-dibromo-1-propanol (2,3-DBPA)	(1)221-967-7 (2)253-057-0 (3)202-480-9	(1)3296-90-0 (2)36483-57-5 1522-92-5 (3)96-13-9
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	201-289-8	80-54-6 75166-30-2 75166-31-3
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	201-025-1	77-40-7
216	Glutaral	203-856-5	111-30-8
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	287-477-0 - - 950-299-5	85535-85-9 198840-65-2 1372804-76-6
218	Orthoboric acid, sodium salt (group)	215-604-1 237-560-2 - - - 238-253-6	1333-73-9 13840-56-7 25747-83-5 14890-53-0 22454-04-2 14312-40-4
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	310-154-3	74499-35-7 27147-75-7 - 27459-10-5 57427-55-1 210555-94-5

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NO.	Detection Items	EC Number	CAS Number
26st Controlled Substances (2022.01.17)			
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene] bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	253-242-6	1782069-81-1; 95342-41-9; 852541-25-4; 36861-47-9; 741687-98-9; 852541-30-1; 852541-21-0
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	204-327-1	119-47-1
222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	401-850-9	255881-94-8
223	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4
27st Controlled Substances (2022.06.10)			
224	N-(hydroxymethyl)acrylamide	213-103-2	924-42-5

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NO.	Detection Items	EC Number	CAS Number
28st Controlled Substances (2023.01.17)			
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	253-692-3	37853-59-1
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	201-236-9	79-94-7
227	4,4'-sulphonyldiphenol	201-250-5	80-09-1
228	Barium diboron tetraoxide	237-222-4	13701-59-2
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-
230	Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3
231	Melamine	203-615-4	108-78-1
232	Perfluoroheptanoic acid and its salts	-	-
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl) morpholine	473-390-7	-
29st Controlled Substances (2023.06.14)			
234	(bis(4-chlorophenyl) sulphone)	-	80-07-9
235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)	-	75980-60-8