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修訂履歷 Revision History :

NO.	版本 Version	制(修)訂者 Established (Revised) by	制(修)日期 Date of Establishment (Revision)	章節 Section	修改內容 Revised Content
1	1	李亞軒 Angel Lee	2013/5/2		新建 New create
2	2	馮慧婷 Tingting Feng	2013/10/11		新增表單編號 New add forms number. 新增 2.3、6.8、6.9、6.10 New add section 2.3、6.8、6.9、6.10
3	3	馮慧婷 Tingting Feng	2014/03/18		新增英文版 New add English version 新增 6.9、6.10 New add section 6.9、6.10 新增及修改禁/限用物質管制項目 New add and revise prohibited /restricted substances control projects
4	4	馮慧婷 Tingting Feng	2014/05/23		1. 修改 3.6/Level 2、REACH Cas No. Revise 3.6/Level 2、REACH Cas No. 2. 新增參考文件 7 New add References 7
5	5	簡孟如 Elle Chien	2015/07/22		1.新增表單 New add forms 2.新增 6.7.4 New add section 6.7.4 3.修改 3.4/4/6.5/6.6/6.9 Revise 3.4/4/6.5/6.6/6.9 4.新增/修改化學物質及含有量限值 Add / Revise substance list and concertration limits



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6	6	魏淑玲	2016/01/11		1.新增 14 批 REACH 高度關注物質(SVHC)候選清單 Add new Candidate List of the14th batch REACH SVHC 2.修正 Latex CAS No. Revise Latex CAS No.
7	7	羅書玲	2017/05/25		1.新增 15&16 批 REACH 高度關注物質(SVHC)候選清單 Add new Candidate List of the15th &16th batch REACH SVHC 2.修改表 59 中五氯苯酚為五氯苯酚及其鹽類和酯類 Modify Pentachchlorophenol to Pentachchlorophenol and its salts and esters in Table 59 3.新增表 59 五氯苯酚為五氯苯酚及其鹽類和酯類 Add new Table 59 Pentachchlorophenol and its salts and esters
8	8	羅書玲	2018/02/28		新增 17&18 批 REACH 高度關注物質(SVHC)候選清單 Add new Candidate List of the17&18th batch REACH SVHC
9	9	羅書玲	2018/07/19		新增 19 批 REACH 高度關注物質(SVHC)候選清單 Add new Candidate List of the19th batch REACH SVHC
10	10	羅書玲	2019/04/30		新增 20 批 REACH 高度關注物質(SVHC)候選清單 Add new Candidate List of the 20th batch REACH SVHC
11	11	朱海玲	2019/7/8	6.5	6.5 增加廠內要求 MSDS 保存 5 年，如客戶有特殊要求年限，依據客戶要求期限保存
12	12	劉亞敏	2019/09/03		新增 21 批 REACH 高度關注物質(SVHC)候選清單 Add new Candidate List of the 21th batch REACH SVHC
13	13	劉亞敏	2019/11/05	6.5	1.新增 6.5.1 New add section 6.5.1 2.新增 REACH 附錄 17 清單 Add new REACH APPENDIX 17 List



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14	14	羅書玲	2020/07/15		1.新增 22&23 批 REACH 高度關注物質(SVHC)候選清單 Add new Candidate List of the 22nd&23rd batch REACH SVHC 2.修訂測試報告有效期為一年 The valid period of the test report is revised for a year
15	15	曹雪蓮	2020/10/20	6	1. 新增中國揮發有機性化合物限值要求 China Limit of VOCs requirements 2. 6.3 增加 VOC 測試報告 Add VOC test report
16	16	劉亞敏	2021/05/11		1.修改 6.1/6.7.2，刪除 6.7.3 Revise6.1/6.7.2，delete6.7.3 2.新增 24 批 REACH 高度關注物質(SVHC)候選清單 Add new Candidate List of the 24th batch REACH SVHC
17	17	陸紅梅	2022/01/21		1.修改 2.2，增加生產輔耗材； Revise2.2，add production auxiliary consumables; 2.修改 4.1，增加 RoHS2； Revise4.1，add RoHS2; 3.修改6.1.新增表單-恆顥文件更版確認回函。 Revise 6.1. Added form - Heng Hao file revision confirmation letter. 4.修改 Level 1 禁/限用物質，Level 2 管制物質，包裝材料禁用物質清單。 Modify the list of Level 1 prohibited/restricted substances, Level 2 controlled substances, and packaging materials prohibited substances. 5.新增 25&26 批 REACH 高度關注物質(SVHC)候選清單 Add new Candidate List of the 25 th &26 th batch REACH SVHC 6.修改 REACH 附錄 17 清單。 Revise REACH APPENDIX 17 List. 7.新增美國毒性物質管理法(TSCA)管控物質 Add new The Toxic Substances Control Act (TSCA)



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18	18	劉亞敏	2023/6/1	3.4 4.2 6.5 6.6 6.10	修訂 3.4/4.2/6.5/6.6/6.9/6.10/Level 1,/Level 2 Revise 3.4/4.2/6.5/6.6/6.9/6.10/Level 1,/Level 2
19	19	章祖秀	2024/4/18	3 6 7	1.修改 Level 1 禁/限用物質（1/17/44/46/47/67/68/88/95/104），Level 2 管制物質（10/11），包裝材料禁用物質清單(1/2/8/14). Modified Level1 Forbidden/Restricted Substances (1/17/44/46/47/67/68/88/95/104),Level2 Controlled Substances (10/11), and List of Prohibited Substances for Packaging Materials(1/2/8/14). 2.新增 3.8-3.11/6.11/6.12 Add new 3.8-3.11/6.11/6.12 3.新增 Level 1 禁限用物質(142-145),Level 2 管制物質(42-44)，包裝材料禁用物質清單(20-25). Added Level 1 Forbidden and Restricted Substances (142-145)，Level 2 Controlled Substances (42-44) and List of Prohibited Substances for Packaging Materials(20-25). 4. 修改表 20/表 27/表 32 中的物質。 Modified substances in Tables 20/27/32. 5.新增表 64/表 65/表 66/表 67/表 68/表 69 Add Table 64/ Table 65/ Table 66/ Table 67/ Table 68/ Table 69 6.新增參考文件 7.6/7.7 Add reference file 7.6/7.7

B 級資料



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20	20	王曉豔	2026/3/23	根據客戶標準修改禁/限用物質清單 Modify the list of prohibited/restricted substances according to the customer's standards. 1.修改 Level 1 表 1/表 2/表 4/表 15/表 16/表 17 表 40/表 46/表 137 中的管制值及適用範圍 1. Modify Table 1/ Table 2/ Table 4/ Table 15/ Table 16/ Table 17/ Table 40/Table 46 of of Level 1 2. 新增 Level 1 表 146 2. Add Table 146 of Level 1 3. 修改包裝材料禁用物質清單(7-8). 3. Update the list of prohibited substances in packaging materials (7-8)
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1. 目的 Purpose：

為保護地球環境，減輕對生態系統的影響，因應世界環保潮流，規定供應商及產品使用的化學管制物質及流程生產出符合國際法規（RoHS/Halogen Free/REACH）及客戶要求之綠色產品。

In response to the world trend of environmental protection and to decrease the effect of ecosystem, the used chemical substances in supplier's and Henghao's products and processes are requested to meet international regulations (RoHS / Halogen Free/ REACH) and customer requirements.

2. 適用範圍 Scope：

2.1 恆顥所提供給客戶產品（包括包裝材）的環境危害物質管理。

The environmental hazardous substance management of products provided by Henghao to customers (including packing materials).

2.2 供應商所提供給恆顥科技之零部件、產品、包裝材、生產輔耗材等環境危害物質管理。

The environmental hazardous substance management of the products, parts ,packing materials and production auxiliary consumables provided by the suppliers to Henghao technology.

2.3 恆顥產品為符合 RoHS/Halogen Free/REACH 要求。

Henghao products are required to comply with the requirements of RoHS/Halogen Free/REACH.

3. 名詞定義 Terms And Definitions：



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3.1 HSF(Hazardous Substance Free)無有害物質：非 HS 物質均屬之。

HSF(Hazardous Substance Free) : The substances which are not defined in hazardous substance list.

3.2 產品：供應商提供於恆顥之產品(含原物料)。

Product: Products provided by the supplier to Henghao (including raw materials).

3.3 包裝材：提供產品在運輸至恆顥過程中所使用的包裝、防護、標示等材料(例如紙箱、緩衝材、捆紮帶、標籤、油墨...)。

Packing materials: Material that supports the transport of product for packing, protection, and labeling. (Such as: carton, buffer materials, strap, label, ink, etc...).

3.4 管理等級 Management Levels :

3.4.1 Level 1 禁/限用物質：該物質立即禁止使用或限制使用於零部件和材料中並提供削減計畫表。

Level 1 banned/restricted substances : For the material immediately banned or to be banned by deadline with reduction plan sheet required

3.4.2 Level 2 管制物質：為須申報物質，該物質及其用途若使用於提供給恆顥的材料零件部品中，供應商需宣告聲明其含有之物質濃度及用途(含有部位)。

Level 2 controlled substances : As the notified substance, if the substance in part of HH product, the supplier must declare the material concentration and purpose (container)

3.5 ND : not detected 表示濃度低於儀器偵測極限無法測出物質含量。

ND : not detected indicates concentrations below detection limit of the instrument which can not be measured.

3.6 NC : not contained 意思為不可含有。

NC : not contained means the substance cannot be included.

3.7 NA : not applicable 意思為不適用此有害物質使用範圍。

NA : not applicable means the usage scope of the hazardous substances is not applicable.

3.8 豁免條款：係指依照歐盟 RoHS 或恆顥自訂豁免條款之限用物質，其原本就為了特定用途使用，在目前現有技術上，無法用其他物質予以取代，或取代後會造成環境或安全衛生之負面影響加重，目前已將產品所適用的條款設定於 GPM 系統供引用。

Exemption Clause of the restricted substances : shall mean the restricted substances according to the RoHS regulations of the European Union or HH's definition that are used for a particular purpose and can not be substituted or if the substitution may cause a negative impact on the environment, safety and health under modern technical knowledge. Currently, we have set the applicable exemptions for products in the GPM system for quotation.



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3.9 均質材料：係指不能通過機械手段進一步拆分為不同均勻材質的材料，均質材料各部份的組成均相同，例如各種陶瓷、玻璃、金屬、合金、紙、木板、樹脂、塑膠、鍍層以及塗料(層)等。

Homogeneous Materials : shall mean the smallest unit of a material that can not be decomposed or separated through mechanical means, such as individual types of ceramics, glass, alloys, paper, board, resins, plastics and coatings. Homogeneous materials shall be the same in every portion of a material.

3.10 機械拆分：係指運用機械手段進行有效的劃分和獲取測試單元的過程，包括旋開、切割、刮削、擠壓和研磨等。

Mechanical disassembly : shall mean a process to separate and gain a test unit with mechanical methods, including unfastening screws, cutting, pulverizing, crushing and grinding.

3.11 『化學文摘組織』註冊號碼：『化學文摘組織 CAS(Chemical abstracts service)』是位於美國的一個與化學有關的組織。該組織在編製化學摘要(CA)時，為便於確認同一種化學物質，故對每一個化學品編訂註冊登記號碼(CAS registry number)，該編號可清楚對應每一化學物質名稱，是國際通行的化學物質身份代碼。例如：鉛的 CAS 註冊號碼是 7439-92-1。

Chemical Abstract Service (CAS) registry number : means a chemical research institute established and located in the U.S.A., by which the institute compiles every chemical abstract and provides a registered number for all chemical substances. This CAS number may clarify and identify every chemical substance and it is recognized internationally. For example, the CAS number of the lead is 7439-92-1.

4. 權責 Responsibilities :

4.1 供應商提交零部件、產品等之第三公正單位報告 RoHS(Cd、Pb、Hg、Cr6+、PBBs、PBDEs)+RoHS2(鄰苯二甲酸二(2-乙基己基)酯(DEHP)、鄰苯二甲酸丁酯苯甲酯 (BBP)、鄰苯二甲酸二丁酯 (DBP)、鄰苯二甲酸二異丁酯 (DIBP))+鹵素(Cl、Br)、MSDS、MCD 資料及保證資料，需符合恆顥環境管制物質要求。

All the third party RoHS (Cd、Pb、Hg、Cr6+、PBBs、PBDEs) +RoHS2(DEHP、BBP、DBP、DIBP)+Halogen(Cl、Br) test reports, MSDS, MCD information of parts/products and the certification letter submitted by suppliers shall meet Henghao's green product controlled substance requirements.

4.2 需提交 MCD 資料供應商：FPC、FPCa、PCBa、LCM、OLED、Cover Glass、TAPE 等複合材料

The following suppliers should submit MCD information: FPC、FPCa、PCBa、LCM、OLED、Cover Glass、TAPE and other composite materials



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5. 流程圖 Flow charts :

無 N/A

6. 內容 Contents :

- 6.1 供應商應符合綠色產品管制物質標準，並簽署『不使用(禁/限用物質)保證函』(F-NP04-001)。當恆顥管制物質改版時 GP 單位即時傳達有關 HSF 標準的訊息給廠內負責廠商管理的相關部門，並由該部門收集『恆顥文件更版確認回函』(F-NP04-A001-006)。

The supplier should comply with Green Product Regulatory Substance Standard, and sign the (Non-use (Prohibited/Restricted Substance) Guarantee Letter) (F-NP04-001). When the regulatory substance of HengHao is revised, GP unit should timely communicate the information about HSF standards to the relevant department in the factory that is responsible for the management of manufacturers, and this department should collect the revision confirmation letter signed back by manufacturers (F-NP04-A001-006) .

- 6.2 針對專利性/唯一性/客戶提供物料/客戶指定物料，如經恆顥評估同意後，供應商方可不提供料件測試報告/MSDS/MCD 資料給恆顥。

For those patent concerned, irreplaceable materials, or materials which are provided or designated by Henghao's customers, suppliers are allowed not to provide the relevant test reports, MSDS, and MCD information only after getting Henghao's approval.

- 6.3 材料承認要求供應商提出符合【綠色產品管制物質標準】(WI-NP04-A001)要求之第三公正單位報告、VOC 測試報告、MSDS、MCD。當供應商之製造地變更，或因導入替代料等任何會造成材料的成分變更時，供應商應主動告知恆顥並提交更新之第三方公正單位報告、MSDS、MCD，待恆顥審核同意後，供應商方能執行變更作業。

Suppliers are requested to submit relevant third party test report, VOC test report, MSDS, MCD (F-NP04-A001-001) which shall meet the requirements of "The Green Products Controlled Substances Standards" (WI-NP04-A001) for Henghao's material/part approval process. When changes to the supplier's manufacturing plant, the introduction of 2nd source, or any changes which can result in the change of the composition of provided material/part, suppliers shall initiate the notification to Henghao with the updated third party test report, MSDS, MCD provided. Suppliers can only execute the change after getting Henghao's approval.

- 6.4 第三方公正單位測試報告須為國家二級實驗室(以上)或通過 ISO17025 認證之實驗室。

The third party test reports shall be generated by a 2nd grade national laboratory (or above) or a laboratory certified with ISO17025.



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- 6.5 供應商端所提出之檢測報告有效期限，自測試報告日期起算一年內有效（電子料除外依客戶要求），測試報告到期前供應商需提供更新測試報告，MSDS 報告有效期如客戶有特殊要求年限，依據客戶要求期限管制。

The valid period of the test report provided by supplier shall be within a year starting from the generated date of the test report(except electronic materials ,follow customer requirements).

Suppliers are required to provide the updated test report before invalid. If the customer has special requirements for the validity period of the MSDS report, the validity period of the MSDS report shall be controlled according to the customer's requirements.

- 6.5.1 若客戶需求 RoHS 自我宣告書，沒有指定格式時，由恆顥出具證明『RoHS 自我宣告書』（客戶版）(F-NP04-A001-005)

If the customer needs RoHS self declaration and there is no fixed format. Henghao will provide "RoHS Declaration of Conformity" (customer) (F-NP04-A001-005)

- 6.6 如未遵守恆顥文件【綠色產品管制物質標準】(WI-NP04-A001)中有關材料之要求，或發生 HS 不符合事項者，供應商應 3 小時內立即通知恆顥，並且於 1 個工作日提出矯正措施及補償改善計畫，闡明相關材料之改善方案與逐步淘汰時程。

If Henghao's requirements in "The Green Product Controlled Substances Standard" (WI-NP04-A001) are not complied with, or any HS nonconformity is found, Supplier shall immediately notify HH within 3 hr, and propose corrective action plans within one working day, including relevant material improvement plan and material replacement schedule.

- 6.7 檢測項目須包含以下項目：

The following test item shall be included in the test report:

- 6.7.1 金屬件及電鍍液：鉛(Pb)、汞(Hg)、鎘(Cd)、六價鉻(Cr6+)。

Metals and plating: Lead (Pb), Mercury (Hg), Cadmium (Cd), and Hexavalent chromium (Cr6 +).

- 6.7.2 其它所有材料：鉛(Pb)、汞(Hg)、鎘(Cd)、六價鉻(Cr6+)、多溴聯苯(PBB)、多溴聯苯醚(PBDE)、鄰苯二甲酸二(2-乙基己基)酯(DEHP)、鄰苯二甲酸丁酯苯甲酯 (BBP)、鄰苯二甲酸二丁酯 (DBP)、鄰苯二甲酸二異丁酯 (DIBP)、鹵素氯(Cl)、鹵素溴(Br)。

All other materials: Lead (Pb), Mercury (Hg), Ccadmium (Cd), Hexavalent chromium (Cr6 +), Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) , Di(2-ethylhexyl) phthalate (DEHP) , Dibutyl phthalate (DBP) , Benzyl butyl phthalate (BBP) , Di-iso-butyl phthalate (DIBP) ,Halogen chlorine (Cl), and Bromine (Br).



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6.7.3 歐盟於 2015 年 6 月 4 日正式公告 RoHS 檢測項目除原本 6 項外新增 4 項鄰苯二甲酸酯 (DEHP、BBP、DBP、DIBP)，恆顥於 2016/7/1 將開始強制實施要求供應廠商所提供之測試報告須包含如下共 12 項檢測項目方允收該測試報告，如不符合要求將允以退件。

The EU official announced on June 4, 2015 that in addition to original six RoHS test items, new four phthalates (DEHP、BBP、DBP、DIBP) are added in controlled items. HH will implement the requirements starting from July 1, 2016, and request suppliers to provide test reports including below 12 test items, otherwise, the test reports will be rejected.

RoHS2.0	10 項 10 items	鉛(Pb)、鎘(Cd)、汞(Hg)、六價鉻(Cr6+)、多溴聯苯 (PBB)、多溴二苯醚(PBDE)、鄰苯二甲酸二(2-乙基己基)酯(DEHP)、鄰苯二甲酸丁酯苯甲酯 (BBP)、鄰苯二甲酸二丁酯 (DBP)、鄰苯二甲酸二異丁酯 (DIBP)
鹵素 (Halogen)	2 項 2 items	氯(Cl)、溴(Br)

6.8 檢測相關應用原則：檢測報告需明確指出以下內容及原則：

Principles for testing: Test report shall clearly identify the contents and follow principles stated below:

6.8.1 所有零部件的測試部位，必須以“均質材料”為基準測試。

All the parts should be decomposed into “homogeneous material” as testing unit.

6.8.2 報告內容應包含：報告編號、實驗室名稱、送測日期及報告日期、送測公司名稱、樣品名稱及相關資訊、檢測方法〈包含前處理及儀器名稱〉、實驗數據、分析物質、MDL 值、樣品照片、測試流程圖及實驗室負責人員簽名。

Test report contents shall include: No. of report, name of laboratory, date of testing & report, name of company for testing, name of sample & related information, testing method (including the name of pre-treatment & instrument), testing data, testing item (analyzed substance), MDL value, picture of sample, testing flowchart and the signature of person in charge of the laboratory.

6.8.3 檢測報告必須檢附清晰掃描之電子檔。

The e-file of the test report shall be clear to read.

B 級資料

6.9 無衝突金屬 Metal Conflict-Free

衝突礦產，是指鉭(Ta)，錫(Sn)，鎢(W)和金(Au)和鈷(Co)等金屬，來自於剛果民主共和國或鄰近國家衝突區域之礦區。金屬開採已造成嚴重的人權與環境問題，而這些金屬可能被應用於電子產品中。我們要求供應商應詳實調查其產品中含有金屬之礦源是否來自於剛果民主共和



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國，並要求供應商誠實提供調查所得之資訊並簽署『無衝突金屬宣告書』(F-NP04-A001-004)及 CFSI_CMRT template 調查表。

原文網址: <http://www.eicc.info/>

Conflict minerals, which mean metals such as tantalum (Ta), tin (Sn), tungsten (W), gold (Au) and Cobalt(Co) from the mines in the Democratic Republic of the Congo or neighboring countries in a conflict area. Metal mining has resulted in serious human rights and environmental issues, and these metals may be used in electronic products. We require suppliers of mineral resources should be investigated whether products contain metals from the Democratic Republic of the Congo, and require suppliers to provide honest information obtained from the survey and sign the "Declaration of Metal Conflict-Free"(F-NP04-A001-004) and CFSI_CMRT template。

Original URL: <http://www.eicc.info/>

- 6.10 REACH (Registration, Evaluation, Authorization and Restriction of Chemical)中文稱為「關於化學品註冊、評估、授權和限制法規」。ECHA 每半年會公佈高度關注物質 SVHC (Substances of Very High Concern)候選清單之化學項目，恆顥要求供應商誠實將調查所得之資訊並簽署『REACH 授權物質管理調查』(F-NP04-A001-002)詳細內容參閱以下官網

原文網址: ECHA (REACH) <http://echa.europa.eu/candidate-list-table/>

REACH (Registration, Evaluation, Authorization and Restriction of Chemical) Chinese called the "About Chemicals Registration, Evaluation, Authorization and Restriction". ECHA publishes Candidate List of SVHC (Substances of Very High Concern) for Authorization every six months. Henghao requests suppliers to provide SVHC honest information obtained from the survey questionnaire and signed "Containing/Not-containing REACH SVHC candidate substances " (F-NP04-A001-002). Further details please refer to the following official website:

Original URL: chemical substance management measures (REACH)

<http://echa.europa.eu/candidate-list-table/>

REACH 附錄十四授權物質原文網址：<https://echa.europa.eu/de/authorisation-list>

Anniex XIV official Web site：<https://echa.europa.eu/de/authorisation-list>

REACH 附錄十七危險物質原文網址：<https://echa.europa.eu/de/substances-restricted-under-reach>

Anniex XIV official Web site：<https://echa.europa.eu/de/substances-restricted-under-reach>

- 6.11 斯德哥爾摩公約 Stockholm Convention on- Persistent Organic Pollutants (POPs)

斯德哥爾摩公約要求，消除或減少向環境排放的持久性有機汙染物，持久性有機汙染物(POPs)是有機化合物，簡稱 POPs。它可通過各種環境介質（大氣、水、生物體等）能夠長距離遷移並長期存在於環境，具有長期殘留性、生物蓄積性、半揮發性和高毒性，對人類健康和環境具



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有嚴重危害的天然或人工合成的有機污染物質。

The Stockholm Convention requires the elimination or reduction of emissions of persistent organic pollutants (POPs), organic compounds, or POPs, into the environment. It can migrate long distances and exist in the environment for a long time through various environmental media (atmosphere, water, organisms, etc.), with long-term residual, bioaccumulation, semi-volatile and high toxicity, natural or synthetic organic pollutants with serious harm to human health and the environment.

原文網址: <http://chm.pops.int/Home/tabid/2121/Default.aspx>

6.12 日本化審法第一類特定化學物質

Class I specified chemical substances in the Japan Chemical Substances Control Law (Japan CSCL)

日本化審法-第一種特定化學物質是指具有持久性，高生物蓄積性，且對人類或高等捕食動物有長期毒性的化學物質。已列入的化學物質，在生產/進口前需要政府許可（除實驗研究等少數情況外，原則上禁止），未經授權不允許生產或進口。

Class I specified chemical substances in the Japan Chemical Substances Control Law refer to chemicals that are persistent, bioaccumulative, and have long-term toxicity to humans or higher-level predatory animals. Chemical substances that are listed under this category require government approval prior to production or importation (with a few exceptions such as for experimental research, but generally prohibited). Unauthorized production or importation is not allowed.

原文網址: https://www.nite.go.jp/chem/jcheck/list6.action?category=211&request_locale=en

綠色產品管制標準分類明細

Green Product Controlled Substances Standard Classification List

Level 1 禁/限用物質 (立即禁用或期限到禁用並提供削減計畫表)

Level 1 Prohibited/Restricted Substance (Immediately or to be banned by deadline with reduction plan sheet required)

No.	管制物質 Name of substances	管制物質英文名稱 English name of substances	CAS no.	管制值 上限 Controlled upper limit (ppm)	適用範圍 Application
1	表 1-鉛及其化合物(Pb)	Table 1-Lead and its compounds	表 1	90	焊錫; Solder



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				90	塑膠; Plastic
				90	油墨; Ink
				N.D	塗料; Paint
				500	所有應用中; All applications
2	表 2-鎘及其化合物(Cd)	Table2-Cadmium and its compounds	表 2	5	焊錫; Solder
				5	表面鍍層; Surface plating
				N.D	塑膠, 油墨, 塗料; Plastic, ink, paint
				50	所有應用中; All applications
3	表 3-汞及其化合物(Hg)	Table3-Mercury and its compounds	表 3	N.D	所有應用中; All applications
4	表 4-六價鉻及其化合物(Cr6+)	Table4-Hexavalent chromium and its compounds	表 4	N.D	金屬用途, 如鍍層, 塗層; Use of metal, such as plating, coating
				500	所有應用中; All applications
				N.D	群創客戶要求所有 零部件和產品 All arts and products
5	表 5-多溴聯苯及其化合物(PBBs)	Table5-Polybrominated Biphenyls	表 5	N.D	所有應用中; All applications
6	表 6-多溴二苯醚及其化合物(PBDEs)	Table6-Polybrominated Diphenyls Ethers (PBDEs)	表 6	N.D	所有應用中; All applications



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7	總氯(Cl)	Chlorine	22537-15-1	900	所有應用中; All applications
8	總溴(Br)	Bromine	10097-32-2	900	所有應用中; All applications
9	鹵素(氯+溴)	Halogen(Cl+Br)	—	1500	所有應用中; All applications
10	鄰苯二甲酸二(2-乙基己基)酯	Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	N.D	所有應用中 All applications
11	鄰苯二甲酸二丁酯	Dibutyl phthalate (DBP)	84-74-2	N.D	所有應用中 All applications
12	鄰苯二甲酸丁酯苯甲酯	Benzyl butyl phthalate (BBP)	85-68-7	N.D	所有應用中 All applications
13	鄰苯二甲酸二異丁酯	Di-iso-butyl phthalate (DIBP)	84-69-5	N.D	所有應用中 All applications
14	表 42-鄰苯二甲酸鹽	Table 42-Phthalates	表 42	N.D	所有應用中 All applications
15	表 7-銻及其化合物(Sb)	Table 7-Antimony and its compounds (Sb)	表 7	700	所有應用中; All applications
16	三氧化二銻	Antimony Trioxide (Sb ₂ O ₃)	1309-64-4	700	所有應用中 All applications
17	表 8-砷及其化合物(As)	Table 8-Arsenic compounds (As)	表 8	N.D	木製品(包含棧板)、塗料、油墨、TFT/CE 玻璃 in wood products(including Pallets), paints, inks, TFT/CF glass
				50	群創其它 Others



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				500	群創要求金屬合金類 Metal alloys
18	表 9-砷及其化合物	Table9-Asbestos and its Compounds	表 9	N.D	所有應用中; All applications
19	表 10-鈹及其化合物(Be)	Table10-Beryllium and its compounds (Be)	表 10	N.D	所有應類用中; All applications
20	鈹的灰塵和煙霧	Beryllium dust and fumes	—	N.D	金屬, 金屬鍍層, 玻璃, 陶瓷; Metals, metal plating, glass, and ceramics
21	表 11-致癌物, 誘導有機體突變物質, 致生殖毒性物質	Table 11-Carcinogens, mutagens and reproductive toxins (CMR)	表 11	N.D	所有應用中 All applications
22	國際癌病研究機構定義致癌物質	Carcinogenic substances (Group1 and group2A: defined by IARC(The International Agency for Research on Cancer)	—	N.D	所有應用中 All applications
23	表 12-氯丹類化合物	Table 12-Chlordanes	表 12	N.D	所有應用中 All applications
24	表 13-氯化碳氫化合物	Table13-Chlorinated hydrocarbon compounds	表 13	N.D	所有應用中 All applications
25	表 14-鈷及其化合物	Table14-Cobalt and its compounds	表 14	N.D	在直接與皮膚長期接觸的零件中 Suitable for parts in long-term contact with skin
26	表 15-偶氮化合物	Table 15-Azo compounds	表 15	N.D	所有應用中; 塑膠著色劑, 紡織品或皮革;



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					All applications, Plastic colorant, Textiles or Leather
27	表 16-戴奧辛	Table 16-Dioxins	表 16	N.D	所有應用中 All applications
28	鹵化戴奧辛及苯呋喃	Halogenated dioxins and furans	—	N.D	所有應用中 All applications
29	表 17-氟化溫室氣體	Table 17-Fluorinated Greenhouse Gases	表 17	N.D	所有應用中; All applications
30	表 18-鹵化芳香族化合物	Table 18-Halogenated aromatic substances (HAS)	表 18	50	所有應用中; All applications
31	六氯苯	Hexachlorobenzene	118-74-1	N.D	所有應用中; All applications
32	表 19-鹵化聯苯醚	Table 19-Halogenated diphenyl methanes	表 19	N.D	所有應用中; All applications
33	表 58 氯化苯材料	Table 58-Chlorinated benzene	表 58	N.D	所有應用中 All applications
34	其他溴化合物(溴系阻燃劑除外)(BFRs)	Other Bromide (without Brominated Flame Retardants (BFRs))	—	N.D	所有應用中 All applications
35	表 56- 氯化阻 燃 劑 (CFRs)	Table 56-Chlorinated Flame Retardants (CFRs)	表 56	N.D	在電器和機械部件使用的阻燃 Flame retardant used on electrical and mechanical components
36	表 20-鹵化阻燃劑 (溴化阻燃劑和氯化阻燃劑, 除 PBBs 和 PBDEs 外)	Table 20-Halogenated flame retardants/additives (BFRs and CFRs, other than PBBs or PBDEs)	表 20	N.D	所有應用中 All applications



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37	表 39-鹵化(氯,溴)有機化合物	Table39-Halogenated(Cl,Br) organic compounds	表 39	N.D	所有應用中 All applications
38	表 21-鎳及其化合物(Ni)	Table21-Nickel and its compounds(Ni)	表 21	N.D	禁止長時間與皮膚接觸 Prohibit prolonged contact with the skin
39	表 22-壬基酚, 壬基酚聚氧乙烯醚	Table22-Nonylphenol, ethoxylates and related substances	表 22	N.D	所有應用中 All applications
40	表 24-二丁基錫及其化合物(DBT)	Table24-Dibutyl tin and its compounds (DBT)	表 24	1000	所有應用中 All applications
	群創要求化合物(三丁基錫、三苯基錫氧化三丁基錫) Tri-substituted organostannic compounds Tributyltin(TBT), Triphenyltin(TPT), TributylTin Oxide (TBTO))所有零部件和產品 All parts and products	---	---	ND	群創所有應用中 All applications
	群創要求二辛基錫化合物 Diocetyl tin (DOT) compounds 所有零部件和產品 All parts and products	---	---	B 級 100 資料	群創所有應用中 All applications
	群創要求二丁基錫化合物 Dibutyltin (DBT) compounds	---	---	100	群創所有應用中 All applications



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	所有零部件和產品 All parts and products				
	有機錫化合物(除上述所列)Organic tin compounds except above	---	--	1000	群創所有應用中 All applications
41	表 25-二辛基錫及其化合物(DOT)	Table25-Dioctyltin compounds (DOT)	表 25	1000	所有應用中 All applications
42	表 26-臭氧層破壞物質(ODS)	Table26-Ozone Depleting Substance(ODS)	表 26	N.D	所有應用中; All applications
43	表 27-全氟辛酸鉍(PFOA)	Table 27-Perfluorooctanic acids (PFOA)	表 27	1 µg/m2	塗層 Plating
44	表 27-全氟辛酸鉍(PFOA)	Table 27-Perfluorooctanic acids (PFOA)	表 27	0.025	所有應用中; All applications
			表 27	1	PFOA related compounds or its combination 全氟辛酸相關化合物或其總和
45	表 28-全氟辛烷磺酸及其鹽類(PFOS)	Table28-Perfluorooctane sulfonate and its salts (PFOS)	表 28	N.D	所有應用中; All applications
46	PFC 群創全氟與多氟烷基物質 Perfluoroalkyl and polyfluoroalkyl substances(PFAS)	--		N.D	群創所有零部件和產品 All parts and products
	群創框/板中金屬材料、靶材素玻璃螺絲電阻、電容、霍感 Metal materials in frame	--		PFAS < 25 ppb Sum of PFASs < 250	群創框/板中金屬材料、靶材素玻璃螺絲電阻、電容、霍感 Metal materials in frame



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	and rear,Target, Bare glass,Resistor.Capacitor, Inductor, Screw.		ppb(except polymerized PFASs) Total PFASs< 50 ppm (Polymeric PFASs included)	and rear,Target, Bare glass,Resistor.Capacitor, Inductor, Screw.
	全氟與多氟烷基物質 Perfluoroalkyl and Polyfluoroalkyl substances (PFAS) 其他 Others	主動宣告 Initiative to declare	主動宣告 Initiative to declare	客戶及法規要求時)立即禁用 Banned immediately When required by customers or regulations
	全氟烷基磺酸鹽 (PFASs)	Perfluoro alkyl sulfonates (PFASs)	1000	所有應用中; All applications
	全 氟 羧 酸 (C9-C20) 及其鹽和相關化合物	PFCAs (C9-C20), their salts and related substances	0.025	所有應用中; All applications
	全氟羧酸 含 9 到 14 個碳原子及其相關物質	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9 -C14 PFCA s) and their related substance	0.26	全氟己烷基 磺酸相關物質之總和在所有應用中
	全 氟 己 烷 磺 酸 (PFHxS) 和 全 氟 物 質 PFHxA, 其鹽類和相關物質	PFHxS & PFHxA, its salts and related substances	0.025	所有應用中; All applications
	全氟己烷	Perfluorohexane sulfonic acid	1	全氟己烷



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		基 磺酸相關物質(如前驅物 反應物)	PFHxS) related substances			基 磺酸相關物質之總和在所有應用中
		全氟碳化合物	Perfluorocarbons (PFCs)		N.D	所有應用中; All applications
		全 氟 庚 酸 (PFHpA)	Perfluoro-heptanoic Acid (PFHpA)		0.5	所有應用中; All applications
47	表 29-多環芳香烴化合物類 總和 (SUM of PAHs)	Table29-Polycyclic aromatic hydrocaebons (SUM of PAHs)	表 29	0.5	長時間與皮膚接觸 (超過三十秒) Long-term exposure foreseeable Skin contact or without skin contact.(longer than 30 seconds)	
				1	短時間接觸或不接觸皮膚 short-term exposure or without skin contact.	
48	苯並蒽 苯並 (B) 蒽 苯並[k]蒽 苯並 (a) 芘 (BaP) 苯並 (G, H, I) 芘 苯並[J]蒽 苯並[e]芘 二苯並[a,h]蒽 總和(SUM of Benzo)	Benzo(a)anthracene(BaA) Benzo(b)fluoranthene (BbFA) Benzo(k)fluoranthene (BkFA) Benzo(a)pyrene(BaP) Benzo(g,h,i)perylene Benzo[j]fluoranthene (BjFA) Benzo[e]pyrene (BeP) Dibenz[a,h]anthracene (DBAhA) (SUM of Benzo)	56-55-3 205-99-2 207-08-9 50-32-8 191-24-2 205-82-3 192-97-2 53-70-3	0.5	所有應用中; All applications	



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49	表 30-多氯聯苯(PCBs)	Table30-Polychlorinated biphenyls (PCBs)	表 30	N.D	所有應用中; All applications
50	表 31-多氯三聯苯(PCTs)	Table31-Polychlorinated terphenyls (PCTs)	表 31	N.D	所有應用中; All applications
51	表 32-多氯化萘(PCNs)	Table32-Polychlorinated naphthalenes (PCNs)	表 32	N.D	所有應用中; All applications
52	表 33-放射性物質	Table 33-Radioactive substances	表 33	N.D	所有應用中; All applications
53	表 34-敏感性物質	Table 34-Sensitizing substance	表 34	N.D	所有應用中 All applications
54	導致皮膚過敏物質	Cause skin irritation substance	—	N.D	所有應用中 All applications
55	表 37- 三價鉻化合物 (Cr3+)	Table37-Chromium (III) compounds	表 37	1000	所有應用中 All applications
56	表 43-硒及其化合物(Se)	Table43-Selenium and its compounds	表 43	N.D	所有應用中 All applications
57	表 44- 四 溴 雙 酚 A(TBBP-A, TBBA)	Table 44-Tetrabromobisphenol A (TBBP-A, TBBA)	表 44	900	所有應用中; All applications
58	表 51-高氯酸鹽及其化合物	Table 51-Perchlorates and its compounds	表 51	0.006	所有應用中 All applications
59	表 52-六溴環十二烷及其同素異構物(HBCDD)	Table 52-Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	表 52	N.D	所有應用中; All applications
60	表 53-磷及其化合物(P)	Table 53-Phosphorus and its compounds (P)	表 53	N.D	所有應用中 All applications
61	表 57-有機磷化合物	Table 57-Organic phosphorous compounds	表 57	N.D	所有應用中 All applications
62	三(2,3-二溴丙基)磷酸酯	Tri-(2,3-dibromo-propyl) phosphate(TBPP)	126-72-7	N.D	所有應用中 All applications



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63	三吡啶基氧化磷	Tris-(1-aziridinyl) phosphine oxide (TEPA)	5455-55-1	N.D	所有應用中 All applications
64	磷酸三甲苯酯	Tri-o-cresyl phosphate or Tricresyl phosphate (TCP)	78-30-8 1330-78-5	N.D	所有應用中 All applications
65	六氯環己烷, α-六氯環己烷, β-六氯環己烷, γ-六氯環己烷	Hexachlorocyclohexane isomers (HCH), α-Hexachlorocyclohexane, β-Hexachlorocyclohexane, γ-Hexachlorocyclohexane	58-89-9, 608-73-1, 319-84-6	N.D	所有應用中; All applications
66	環己烷	Cyclohexane	110-82-7	N.D	所有應用中; All applications
67	表 68 短鍊氯化石蠟 (C10~C13)(SCCP)	Chlorinated paraffin(C10-13 carbon chain)(SCCP)	表 68	N.D	所有應用中; All applications
68	表 67 中鍊氯化石蠟 (C14~17)(MCCP)	Medium Chained Chlorinated Paraffins (C14~17)(MCCP)	表 67	N.D	所有應用中; All applications
69	長鍊氯化石蠟 (C18-28)(SCCP)	Long chain chlorinated paraffins (C18-28) (SCCP)	85422-92-0 85535-86-0	1000	所有應用中; All applications
70	表 55-聚氯乙烯(PVC)	Table 54-Polyvinyl chloride (PVC)	表 55	N.D	所有應用中; All applications
71	甲醛	Formaldehyde	50-00-0	N.D	所有應用中; All applications,
72	表 48-乳膠及其化合物	Latex and its compounds	表 48	N.D	所有應用中 All applications
73	富馬酸二甲脂(DMF)	Dimethyl formamide (DMF)	624-49-7	N.D	所有應用中; All applications
74	特定苯並三氮唑 2-[2-羥基-3',5'-二叔-丁基苯基]-苯並三唑 2-(3',5'-二叔丁基-2'-羥基苯基)苯並三唑; 2-(2'-羥基-3',5'-二叔丁基苯基)苯並三	Specific benzotriazole 2-(3',5'-Di-tert-butyl-2'-hydroxyphenyl)benzotriazole; 2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole;Phenol, 2-benzotriazol-2-yl-4,6-di-tert-butylphenol(UV-320)	3846-71-7	N.D	所有應用中; All applications

B 級資料



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	唑;(UV-320)				
75	2(2H- 苯並三氮唑-2 -基)-4,6 -雙-(1,1 - 二甲基乙基)苯酚(UV-328)	2(2H-benzotriazol-2-yl)-4,6-bis-(1,1-dimethylethyl)(UV-328)	25973-55-1	N.D	所有應用中; All applications
76	麥角二乙胺	2-benzotriazol-2-yl-4,6-ditert-butyl-phenol	50-37-3	N.D	所有應用中; All applications
77	表 23-有機錫化合物	Organic tin compounds	表 23	N.D	所有應用中 All applications
78	三取代有機錫化合物 (TBTO 除外)	Tri-substituted organostannic compounds (tributyl tin compound, triphenyl tin compound) (except for TBTO)	—	N.D	所有應用中 All applications
79	特定阻燃劑 (歐盟指令 67/548/EEC 和 2009/2/EC 分類下列為 R40, R45, R46, R48, R50, R51, R52, R53, R60, R61 號阻燃劑和它們的任意組合)	Certain flame retardants (Flame retardants that are classified under EU 67/548/EEC and 2009/2/EC as R40, R45, R46, R48, R50, R51, R52, R53, R60, R61 and any combination of these)	—	N.D	特定阻燃劑用在超過 25 克的塑膠件中 Specific flame retardants used in plastic parts over 25 grams
80	氣味物質 二甲苯麝香 銅麝香	Fragrance substance Musk xylene Musk ketone	81-14-1 81-15-2	N.D	所有應用中 All applications
81	所有合成麝香	All synthetic musks	—	N.D	所有應用中 All applications
82	五氯苯酚及其鹽類和酯類	Pentachlorophenol(PCP)and its salts and esters	表 59	N.D	所有應用中 All applications



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83	五氯苯	Pentachlorobenzene (PeCB)	608-93-5	N.D	所有應用中 All applications
84	三氯沙	Triclosan	3380-34-5	10	所有應用中 All applications
85	2,4,6 三-叔丁基苯酚	2,4,6-Tri-tert-butylphenol	732-26-3	N.D	所有應用中 All applications
86	對硝基聯苯及其鹽類, 4-硝基聯苯, 對硝基聯苯	4-Nitrobiphenyl and its salt	92-93-3	N.D	所有應用中 All applications
87	烷基酚	Alkylphenols	123-01-3, 25154-52-3 27193-28-8 9016-45-9 9002-93-1	N.D	所有應用中 All applications
88	苯及其化合物	Benzene	71-43-2 531-85-1	N.D	所有應用中 All applications
89	甲苯	Toluene	108-88-3	1000	在製程中和黏著劑 或噴漆的應用中 In manufacture procedure and adhesives and spray paints
90	二氯甲基醚	Bis(chloromethyl) ether (BCME)	542-88-1	N.D	所有應用中 All applications
91	十氯酮	Chlordecone	143-50-0	N.D	所有應用中 All applications
92	六氯乙烷	Hexachloroethane	67-72-1	N.D	所有應用中 All applications
93	六氯丁二烯 六氯-1,3-丁二烯	Hexachlorobutadiene (HCBD) Hexachloro-1,3-butadiene	87-68-3	N.D	所有應用中 All applications
94	滅蟻靈/十二氯五環癸 hloro	mirex/pentacyclodecane,dodecac hloro	2385-85-5	N.D	所有應用中 All applications



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95	苯二胺類化合物 N,N'-1 (聯甲苯-p-苯二胺; N-甲苯基-N'-二甲苯基-p-苯二胺; N,N'-聯甲苯-p-亞苯二胺,乙烯化二苯胺)	N,N'-Ditolyl-p-Phenylenediamine; N-Tolyl-N'-Xylyl-p-Phenylenediamine; N,N'-Dixylyl-p-Phenylenediamine Benzenamine, N-phenyl-,styrenated(SDPA)	27417-40-9 28726-30-9 70290-05-0 620-91-7 15017-02-4 68442-68-2	N.D	所有應用中 All applications
96	八溴二苯醚	Diphenylether, octabromo derivative (C12H2Br8O)	32576-61-7 32536-52-0	1000	所有應用中 All applications
97	三氯乙烷	Methyl chloroform	74552-83-3	N.D	所有應用中 All applications
98	乙二醇單甲醚	2-Methoxyethanol	109-86-4	N.D	所有應用中 All applications
99	2-(2-甲氧基乙氧基)乙醇 (DEGME)	2-(2-methoxyethoxy)ethanol (DEGME)	111-77-3	1000	所有應用中 All applications
100	2-(2-丁氧乙氧基)乙醇 (DEGBE)	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	1000	所有應用中 All applications
101	三氟化氮	Nitrogen trifluoride (NF3)	7783-54-2	N.D	所有應用中 All applications
102	三 (2,3 二溴丙基)	Tris (2,3 dibromopropyl)	—	N.D	所有應用中 All applications
103	聯苯胺及其鹽類	Benzidine and its compounds	92-87-5	N.D	所有應用中 All applications
104	持久性有機污染物 (POPs)	POPs-Persistent organic pollutants specified in Stockholm Convention	Follow POPs website	N.D	所有應用中 All applications
105	乙二醇單甲基醚及其醋酸鹽; 乙二醇單乙基醚及其乙醋酸酯	Ethylene glycol monomethyl ether and its acetate; Ethylene glycol monoethyl ether and its acetate	111-15-9	100	所有應用中 All applications
106	苯胺, N-苯基 - , 反應產品與苯乙烯和 2,4,4 -	Benzenamine, N-phenyl-, reaction	68921-45-9	N.D	抗氧化添加劑在潤滑油



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	三甲基 (BNST)	products with styrene and 2,4,4-trimethylpentene (BNST)			Antioxidant additives in lubricants
107	正己烷	n-Hexane	110-54-3	N.D	清洗劑，脫脂劑的製造過程被限制為用 Cleaning agents, degreasing agents manufacturing process is limited by
108	二苯胺，取代的(SDPA)	Diphenylamine, Substituted (SDPA)	122-39-4	N.D	在粘著劑中使用的抗氧化劑，樹脂和聚合物塗層，紙製品
109	乙醇，2-[(2-氨基乙基)氨基]	Ethanol, 2-[(2-aminoethyl)amino]	111-41-1	N.D	Paints, lacquers, varnishes, textile, corrosion inhibitors 塗料，油漆，清漆，紡織，防腐抑製劑
110	N-亞硝基二甲胺	N-Nitroso dimethyl amine (NDMA)	62-75-9	1000	所有應用中 All applications
111	四氯酚 (TeCP)	Tetrachlorophenol	935-95-5 4901-51-3	0.5	木材、皮革、塗料等的防腐劑及消毒劑
112	三氯酚(TriCP)	Trichlorophenol	25167-82-2	0.4	木材、皮革、塗料等的防腐劑及消毒劑
113	橡膠添加劑 (防老劑) IPPD	N-isopropyl-N'-phenyl-p-phenylenediamine	101-72-4	N.D	不可以使用橡膠添加劑 (防老劑)IPPD 的橡膠。



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114	2-萘胺及其鹽	2-Naphthylamine and its salts	—	100	潤滑劑，橡膠/塑膠，抗氧化 Lubricants, rubber/plastic, antioxidant
115	4-氨基聯苯及其鹽	4-Aminobiphenyl and its salts,	—	100	所有應用中 All applications
116	氯甲基甲基醚	Chloromethylmethyl ether(CMME)	107-30-2	N.D	製冷劑，推進劑，清潔劑，溶劑，浸漬劑，發泡劑“ coolant,propellant,cleaners, solvents,impregnating agents,blowing agents
117	亞硝胺	N-Nitrosamines	—	100	橡膠製品 Rubber Products
118	氯乙烯單體	Vinyl chloride monomer	75-0104	5	聚合物殘留 polymer residue
119	苯基汞及其化合物	Phenylmercury and its compounds	62-38-4 103-27-5 13302-00-6 13864-38-5 26545-49-3	100	所有應用中 All applications
120	狄氏劑	Dieldrin	60-57-1	N.D	所有應用中 All applications
121	異狄氏劑	Endrin	72-20-8	N.D	所有應用中 All applications
122	開樂散/(三氯殺蟎醇或2,2,2-三氯-1,1-雙(4-氯苯基)乙醇)	kelthane/dicofol	115-32-2	N.D	所有應用中 All applications



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123	氯苯乙烷/滴滴涕	chlorophenothane/DDT	50-29-3/ 789-02-6	N.D	所有應用中 All applications
124	毒殺芬	Toxaphene	8001-35-2	N.D	所有應用中 All applications
125	硫丹 硫丹硫酸酯	Endosulfan Endosulfan sulfate	115-29-7 959-96-8 33213-65-9 1031-07-8	N.D	所有應用中 All applications
126	艾氏劑	Aldrin	309-00-2	N.D	所有應用中 All applications
127	表 41 抗菌和/或生物殺蟲劑物質	Table 41-Antimicrobial and/or Biocidal Substances	表 41	N.D	所有應用中 All applications
128	定義在生物滅殺劑產品 歐盟法規 528/2012 關於製作 現有的銷售和使用生物滅殺劑產品	Biocidal product as defined in EU Regulation 528/2012 concerning the making available on the market and use of biocidal products	—	N.D	生物滅殺劑產品
129	有機氯導染劑	Chlorinated organic carriers	—	10	所有應用中 All applications
130	苯酚和甲基	Phenol, n-methyl	95-48-7 106-44-5 108-39-4 1319-77-3	N.D	所有應用中 All applications
131	四氯苯	Tetrachlorobenzenes	—	N.D	所有應用中 All applications
132	單甲基二氯二苯基甲烷 單甲基四氯二苯基甲烷 單甲基二溴二苯基甲烷 溴苯甲基甲苯 (DBBT)	Monomethyl dichloro diphenyl methane Monomethyl tetrachloro diphenyl methane Monomethyl-dibromo-diphenyl methane	—	N.D	所有應用中 All applications



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133	蔥	anthracene	120-12-7	N.D	所有應用中 All applications
134	2,4-二硝基甲苯	2,4-Dinitrotoluene	121-14-2	N.D	所有應用中 All applications
135	煤瀝青，高溫 煤焦油，重油 煤焦油，重油，萘餾分 煤焦油殘留，瀝青 雜酚油，煤焦油，焦油 油，蔥物質 焦油，木鐳油 蔥油，蔥糊，輕油 蔥油，蔥糊，蔥餾分	Coal tar pitch, high temperature Coal Tar Distillates, heavy oils Coal Tar Distillates, heavy oils, pyrene fraction Coal Tar Residues, pitch distn Creosote, coal tar, tar oils,anthracene substances Tar oils and creosotes Anthracene oil, anthracene paste, distn. Lights Anthracene oil, anthracene paste, anthracene fraction	91995-52-7 65996-93-2 90640-86-1 91995-17-4 92061-94-4 8001-58-9 65996-91-0 122384-78-5 90640-80-5 91995-15-2	N.D	所有應用中 All applications
136	全球汽車申報物質清單 GADSL	汽車零部件、材料中禁止或限制的有害物質 Prohibited or restricted hazardous substances for automobile parts and material	Follow GADSL	Follow GADSL	Follow GADSL 官方網站為準： Subject to the official website
137	氯苯	Chlorobenzene	68411-45-0	ND	所有應用中 All applications
138	丙烯晴	Acrylonitrile	107-13-1 126-98-7 22584-31-2	ND	顏料，塗料，合成 樹脂，合成纖維 Prohibit the use of the pigment,paint,synthetic resin, synthetic fibers.



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139	乙二醇單丁醚	2-Butoxyethanol	111-76-2	ND	油漆、油漆去除劑、清潔劑和自我閃亮的乳劑 Paints , paint strippers , cleaning agents , and self-shining emulsions
140	REACH 附錄十四授權物質	Substances included of in Annex XIV	依 REACH 官方網站資訊 Follow REACH official Web site	依 REACH 法規 Follow REACH	依 REACH 官方網站資訊 Follow REACH official Web site
141	REACH 附錄十七危險物質	Substances included of in Annex XVII	依 REACH 官方網站資訊 Follow REACH official Web site	依 REACH 法規 Follow REACH	依 REACH 官方網站資訊 Follow REACH official Web site
142	雙分類物質	Bisphenol Chemicals	塑膠，環氧樹脂 Adhesives, plastics, epoxy resin	表 65	100
143	正氯烷(得克隆)	Dechlorane Plus (DP)	All applications	13560-89-9	ND
144	內分泌干擾物	Endocrine disruptors	All applications		1000



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145	日本化審法第一類特定化學物質(CSCL)	Class I specified chemical substances in the Japan Chemical Substances Control Law (Japan CSCL)	遵循法規	--	禁止使用
146	鎵元素	Gallium elemental only	--	0.1g	每個零部件中的液體鎵 Liquid gallium per part

Level 2 管制物質 (需申報宣告其含有之物質濃度/用途/含有部位)

Level 2 Controlled substance (substance concentration, usage, and the contained parts are required to be declared)

No	管制物質 Name of substances	管制物質英文名稱 English name of substances	CAS no.	管制值上限 Controlled upper limit (ppm)	適用範圍 Application
1	鈹青銅	Beryllium copper	11108-64-8	N.D	所有應用中; All applications
2	表 35-鋇及其化合物 (Ba)	Table 35-Barium and its compounds	表 35	100	所有應用中 All applications
3	表 38-氰化物	Table 38-Cyanogen compounds	表 38	N.D	電鍍, 洗注, 油漆, 塗料, 染料, 橡膠或其他工業用途; In electroplating, wash injection, paint, dyes, rubber and



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					other industries
4	表 40-錳及其化合物	Table 40-Manganese and its compounds	表 40	1000	所有應用中 All applications
5	雙酚 A	Bisphenol A (BPA)	80-05-7	50	所有應用中; All applications
6	表 45-鋅及其化合物 (Zn)	Table 45-Zinc and its compounds	表 45	1000	所有應用中 All applications
7	表 46-異氰酸酯	Table 46-Isocyanates	表 46	1000	所有應用中 All applications
8	表 47-鎂及鎂合金(Mg)	Table 47-Magnesium and Magnesium alloys	表 47	1000	表面塗層, 電腦外殼; Surface coating, computer casings
9	表 49-介面活性劑	Table 49-Surfactant	表 49	1000	所有應用中 All applications
10	表 50-揮發性有機化合物 (VOC)	Table 50-Volatile organic compound (VOC)	表 50	遵循法規	所有應用中 All applications
11	表 54 鉍及其化合物	Bismuth and its compounds	表 54	100	所有應用中 All applications
12	持久性、生物積累性且有毒的物質 (PBTs)、高持久性、高生物累積性的物質 (vPvBs)	Persistent, bioaccumulative and toxic substances (PBTs), Very persistent and very bioaccumulative substances (vPvBs)	—	N.D	所有應用中 All applications
13	正丁基縮水甘油醚	n-Butyl glycidyl ether	2426-08-6	1000	所有應用中 All applications
14	2-丁酮肟	2-Butanone oxime	96-29-7	1000	所有應用中 All applications
15	2,3 - 二溴-1 - 丙醇	2,3-Dibromo-1-propanol	96-13-9	1000	所有應用中 All applications
16	二溴乙二醇	Dibromoneopentyl-glycol	3296-90-0	1000	所有應用中 All applications



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17	對二氯苯	P-Dichlorobenzene	106-46-7	1000	所有應用中 All applications
18	銻及銻化合物	Indium / indium compounds	22398-80-7	1000	所有應用中 All applications
19	鈀及化合物	Palladium and compounds	—	1000	所有應用中 All applications
20	三唑錫	1-(Tricyclohexylstannyl)-1H-1,2,4-triazole	41083-11-8	1000	所有應用中 All applications
21	雙(三丁錫)富馬酸鹽	(E)-5,5,12,12-Tetrabutyl-7,10-dioxo-6,11-dioxa-5,12-distanahexadec-8-ene	6454-35-9	1000	所有應用中 All applications
22	銀及其化合物	Silver and its compounds	7440-22-4	1000	所有應用中 All applications
23	乙烯亞胺	Ethyleneimine	151-56-4	N.D	聚合劑，粘合劑，塗料，表面活性劑 polymerizatin agent, adhesives, coatings, surfactants
24	甲基乙基酮（MEK）	Methylethyl ketone (MEK)	78-93-3	N.D	溶劑，載體 solvent, carrier
25	金	Gold	7440-57-5	1000	所有應用中 All applications
26	氫化的有機化合物	Hydrogenerated organic compounds	—	1000	所有應用中 All applications
27	β-丙內酯	Beta-Propiolactone	57-57-8	N.D	化學中間體，消毒滅菌劑 chemical intermediate, sterilization agent
28	2-乙醯氨基苻	2-Acetylaminofluorene	53-96-3	N.D	實驗室致癌物 laboratory carcinogen
29	4-二甲基氨基偶氮苯	4-Dimethyl-aminoaobenzene	60-11-7	N.D	染料對於拋光劑，蠟



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					製品，聚苯乙烯和皂 dye for polishes, wax products, polystyrene, and soap
30	1,2-二溴-3-氯丙烷	1,2-dibromo-3-chloropropane	96-12-8	N.D	停產薰蒸劑，化學中間體 discontinued fumigant. Chemical intermediate
31	環氧乙烷	Ethylene oxide	75-21-8	N.D	黴菌和真菌的滅菌劑，化工中間體 mold and fungi sterilant, chemical intermediate
32	奈米材料	Nanomaterials reporting	—	1000	所有應用中 All applications
33	表面活性劑及其化合物 DHTDMAC, DODMAC/DSDMAC, DTDMAC	Surfactants and its compounds	表 36	1000	所有應用中 All applications
34	氰化氫，氫氰酸	Hydrogen cyanide	74-90-8 75-86-5	需宣告 Need to be declared	薰蒸劑 Fumigants
35	銅（Cu）及其化合物	Copper（Cu） and its compounds	表 60	B 級資料 需宣告 Need to be declared	防銹處理，導體，合金，顏料，染料，電鍍 Rustproof treatment，conductor printing paste，alloy，pigment，dyes，



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					plating...
36	金及其化合物	Gold (Au) and its compounds	表 61	需宣告 Need to be declared	電鍍、表面處理、IC 半導體 Plating, surface treatment, semiconductor material...
37	碲 (Te) 及其化合物	Tellurium (Te) and its compounds	表 62	需宣告 Need to be declared	合金添加物、半導體 Additive for alloy steel, semiconductor...
38	鉍 (Ti) 及其化合物	Thallium (Ti) and its compounds	表 63	需宣告 Need to be declared	光學材料，防銹劑，合金 Optical material, stain-proof agent, alloy...
39	釹及其化合物	Neodymium and compounds	7440-00-8	1000	所有零部件和產品 All parts and products
40	鐳及其化合物	Praseodymium and compounds	7440-10-0	1000	0.1% by mass in Deliverables(Hard disk drives, lasers, violet color in glass and ceramics, ceramic capacitors, magnets and any application)
41	REACH 高度關注物質 (SVHC)	REACH Candidate List of Substances of very High Concern	Follow REACH	1000	依 REACH 官方網站資訊 Follow REACH official Web site



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42	氫氟氯化碳(HCFCs)、 1,1,1-三氯乙烷 (C ₂ H ₃ Cl ₃)、三氯乙烯 (C ₂ HCl ₃)、二氯乙烷 (CH ₃ CHCl ₂)、二氯甲 烷(CH ₂ Cl ₂)、三氯甲烷 (CHCl ₃)、四氯化碳 (CCl ₄)和溴丙烷 (C ₃ H ₇ Br)	HCFCs, 1,1,1-Trichloroethane (C ₂ H ₃ Cl ₃), Trichloroethene (C ₂ HCl ₃), 1,1-dichloroethane (CH ₃ CHCl ₂), Dichloromethane (CH ₂ Cl ₂), Chloroform (CHCl ₃), Perchloromethane (CCl ₄) and 1-Bromopropane (C ₃ H ₇ Br)	--	不得使用 Not to be used	製程中的清潔劑 Cleaning agents in the process
43	十氯三環十八碳二烯 (包含任何順式與反式 同分異構物或其他組 成)	Dechlorane Plus and its syn-isomer and anti-isomer	13560-89-9 135821-03- 3 135821-74- 8 and others	N.D. 及非有意添 加 And unintentional additions	所有用途 All uses
44	N-乙基吡咯烷酮 (NEP)	N-乙基吡咯烷酮 (NEP)	2687-91-4	3000	所有用途 All uses

包裝材料禁用物質

Prohibited substances of packing materials

No.	管制物質 Name of substances	管制物質英文名稱 English name of substances	適用範圍 Application	CAS no.	管制值上限 Controlled upper limit (ppm)
1	鉛, 鎘, 汞, 六價鉻(總和)	Pb+Cd+Hg+Cr6+	所有包裝材料; All packaging materials	7439-92-1 7440-43-9 7439-97-6 18540-29-9	50
2	鎘(Cd)	Cadmium	所有包裝材料; All packaging materials	7440-43-9	N.D
3	表 55-聚氯乙烯(PVC)	Table 55-Polyvinyl chloride (PVC)	所有包裝材料; All packaging materials	表 55	N.D



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4	甲醛	Formaldehyde	膠合木質材料 Glued wood materials	50-00-0	N.D
5	總氯 (Cl)	Chlorine	所有包裝材料; All packaging materials	22537-15-1	900
6	總溴 (Br)	Bromine	所有包裝材料; All packaging materials	10097-32-2	900
7	表 5-多溴聯苯及其化合物 (PBBs)	Table 5-Polybrominated Biphenyls	塑膠, 紙類, 塗料, 印刷, 油墨, 鍍層, 及塗層 Plastic, paper, painting, print, ink, plating, and other coating 群創要求使用回收料的塑膠類零部件供願商需提供使用回收料的證明 The plastic parts used recycling materials(the supplier should provide the evidence of recycling materials used)	表 5	1000
8	表 6-多溴二苯醚及其化合物 (PBDEs)	Table 6-Polybrominated Diphenyls Ethers (PBDEs)	塑膠, 紙類, 塗料, 印刷, 油墨, 鍍層, 及塗層 Plastic, paper, painting, print, ink, plating, and other coating 群創要求使用回收料的塑膠類零部件供願商需提供使用回收料的證明 The plastic parts used recycling	表 6	500 1000



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			materials(the supplier should provide the evidence of recycling materials used)		
9	氯漂白劑/ 含氯有機溶劑	Chlorine bleaching agent/ Chlorinated Organic Solvents	包裝材料, 含氯漂白劑, 含氯有機溶劑; Packaging materials, chlorine bleaching agent, chlorinated organic solvents	22537-15-1	N.D
10	溴化阻燃劑	Brominated flame retardants	所有包裝材料; All packaging materials	—	N.D
11	聚苯乙烯 (PS)	Polystyrene (PS)	所有包裝材料; All packaging materials	9003-53-6	N.D
12	發泡聚苯乙烯(EPS)	Expanded polystyrene (EPS)	所有包裝材料; All packaging materials	9003-53-6	N.D
13	表 26-臭氧層破壞物質 (ODS)	Table 26-Ozone Depleting Substance(ODS)	所有包裝材料; All packaging materials	表 26	N.D
14	鄰苯二甲酸二異丁酯, 鄰苯二甲酸二(2-乙基己基)酯, 鄰苯二甲酸苯基丁酯, 鄰苯二甲酸二丁酯	Diisobutyl phthalate(DIBP), Bi(2-ethylhexyl) phthalate (DEHP), Butylbenzyl phthalate (BBP), Dibutyl phthalate (DBP)	所有包裝材料; All packaging materials	84-69-5 117-81-7 85-68-7 84-74-2	ND
15	表 8-砷及其化合物(As)	Table 8-Arsenic and its compounds	所有包裝材料; All packaging materials	表 8	N.D
16	五氯酚	Pentachlorophenol	所有包裝材料; All packaging materials	87-86-5	ND



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17	富馬酸二甲酯	dimethylfumarate (DMF)	所有包裝材料; All packaging materials	624-49-7	0.1
18	包裝或運輸材料中法規限用的殺蟲劑 (參考 EU 2019/1021 (POPs))	Biocidal Substances	所有包裝，運輸材料; All packaging and transporting materials	-	不得有意添加
19	木餾油	Creosotes Oil-wood Preservatives	包裝及運輸材料 Packaging and shipping materials	8021-39-4	N.D
20	全氟烷基磺酸鹽(PFAS)	Perfluoroalkyl and polyfluoroalkyl substances (PFAS)	所有包裝材料; All packaging materials	----	N.D
21	礦物油		包裝及運輸材料 Packaging and shipping materials		ND
22	鄰苯二甲酸鹽	Phthalates	包裝及運輸材料 Packaging and shipping materials	表 42	100
23	1-7 個芳香環組成的礦物油芳香烴 含有 1~7 個芳香環	Mineral oil aromatic hydrocarbon s containing 1 7 aromatic rings (MOAH1 to 7 rings)	1-7 個芳香環組成的礦物油芳香烴的總和在包裝及印刷材料中	-	1000
24	3-7 個芳香環組成的礦物油芳香烴 含有 3~7 個芳香環	Mineral oil aromatic hydrocarbons containing 3 7 aromatic rings (MOAH 3 to 7 rings)	3-7 個芳香環組成的礦物油芳香烴 的總和在包裝及印刷材料中	-	1
25	16 至 35 個碳原子組成的礦物油飽和烴 和烴含有 16-35 個碳原子	Mineral oil saturated hydrocarbons containing 16 to 35	16-35 個碳原子組成的礦物油 飽和 烴 的總和在包裝及印刷材	-	1000



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		carbon atoms (MOSH 16 to 35 C	料中		

中國揮發有機性化合物限值要求:

China Limit of VOCs requirements:

HH

Confidential

B 級資料



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中國揮發性有機化合物限值要求

(China Limit of VOCs requirements) :

中國國家標準化管理委員會 已於 2020 年 3 月 4 日公告七類產品揮發性有機化合物限值規範，其中四項于龍騰生產製造及上游供 應鏈有關：工業防護塗料、油墨、粘著劑、清洗劑。凡於中國生產、銷售和使用塗料、油墨、粘著劑、 清洗劑，則務必在其生效日期前符合標準要求。四項標準的規範範圍及生效日期摘要，詳細標準內容 請參照公告網址：

<http://std.sacinfo.org.cn/gnoc/queryInfo?id=DBFEEDF05290B415CFBBEAA40EA24D78>

China Limit of VOCs requirements: On March 4, 2020, the Standardization Seven mandatory national standards on VOCs, four of which are related to IVO's manufacturing and upstream supply chain: protective coatings, adhesives, inks and cleaning agents. All coatings, inks, adhesives, and cleaning agents that are produced, sold and used in China must meet the standard before its effective date. A summary of the scope and effective date of the four standards is shown , please refer to the announcement website for detailed standard content: <http://std.sacinfo.org.cn/gnoc/queryInfo?id=DBFEEDF05290B415CFBBEAA40EA24D78>

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B 級資料



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編號 No.	標準名稱 Std. Name	規範範圍 Scope	生效日期 Effective
GB30981-2020	工業防護塗料中有害物質 限量 Limit of harmful substances of industrial protective coatings	使用除膩子以外的對金屬、混凝土、塑膠等表面 進行防護的各類工業防護塗料（船舶塗料除外）。不適用於設施用塗料。 This standard applies to a variety of industrial protective coatings (Except marine coatings) used for protecting the surface of metal, concrete and plastics, etc., except putty. This standard does not apply to coatings for military equipment and facility	2020/12/1
GB333 72-2020	膠黏劑揮發性有機化合物 限量 Limit of volatile organic compounds content in adhesive	適用於溶劑型、水基型、本體型膠粘劑。不適用 於中間體、研究用、脲醛、酚醛、三聚氰胺甲醛膠粘劑及材料粘接時 應用的特殊功能性表面處理劑。 This standard applies to the limit of volatile organic compounds content in solvent-based, water-based, and bulk adhesives. This standard does not apply to Intermediate, in any research, urea-formaldehyde, phenolic aldehyde or melamine formaldehyde adhesives, special functional surface treatment agent for bonding materials.	2020/12/1



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編號 No.	標準名稱 Std. Name	規範範圍 Scope	生效日期 Effective
GB358 07-2020	油墨中可揮發性有機化合物 (VOCs) 含量的限量 Limits of volatile organic compounds (VOCs) in printing ink	適用於出廠狀態的各種油墨及類似產品。不適用於印刷時用於調節油墨及類似產品上機性能的添加劑、稀釋劑、印刷時用到的洗車水等產品。 This standard is applicable to various printing inks in the end-of-manufacturing state. This standard is neither applicable to additives and diluents used to adjust the printing performance of ink, nor to cleaning agents for printing ink or other products used for printing.	2021/4/1
GB385 08-2020	清洗劑揮發性有機化合物含量限量 Limits for volatile organic compounds content in cleaning agents	使用於工業生產和服務活動中生產、使用的含揮發性有機化合物的清洗劑。不適用與航空航天、核工業、軍工業、半導體（含積體電路）製造用清洗劑。 This standard is applicable to cleaning agents containing volatile organic compounds produced and used in industrial production and service activities. This standard is not applicable to cleaning agents used in aerospace, nuclear industry, military industry and semiconductor (including integrated circuits) manufacturing.	2020/12/1



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TSCA: 美國有毒物質控制法

Toxic Substances Control Act:

美國有毒物質控制法（Toxic Substances Control Act）:簡稱TSCA，由美國國會於1976年頒布，1977年生效，美國環保署（EPA）負責實施。該法案旨在綜合考慮美國境內流通的化學物質對環境、經濟和社會的影響，預防對人體健康和環境“不合理風險”。美國環保署於2021年1月6日發佈了五項最終規則，以減少對某些持久性、生物積累性和毒性化學品（PBT）的接觸。

Toxic substances control act of the United States:referred to as TSCA, it was promulgated by the U.S.Congress in 1976 and came into force in 1977. The U.S.Environmental Protection Agency(EPA) is responsible for its implementation.The act aims to comprehensively consider the environmental,economic and social impact of chemical substances circulating in the United States and prevent”umreasonable risks” to human health and the environment.On January 6,2021,EPA issued five final rules to reduce exposure to certain persistent, bioaccumulative and toxic chemicals (PBT).

依法規要求，詳細標準內容 請參照公告網址：

As required by law，please refer to the announcement website for detailed：

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

編號 NO	標準名稱 Std.Name	CAS No	規範範圍 Scope
1	十溴二苯醚（DecaBDE）	1163-19-5	禁止含有 Not detected 常作為阻燃劑；用於電線電纜、音視頻設備、通訊產品、電子設備、紡織品、軟體傢俱、汽車部件等產品。 Often used as flame retardant; Used for wire and cable, audio and video equipment, communication products, electronic equipment, textiles, soft furniture, auto parts and other Products.

B 級資料



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2	苯酚，異丙基磷酸酯（3:1） （PIP(3:1)）	68937-41-7	禁止含有 Not detected 常作為增塑劑，阻燃劑，抗磨添加劑或抗壓縮添加劑； 用於塑膠製品、工業塗料、粘合劑、密封劑、液壓油、 潤滑油等產品。 It is often used as plasticizer, flame retardant, anti-wear additive or anti compression additive; Used for platic products, industrial coatings, adhesives, sealants, hydraulic oils, lubricants and other products.
3	六氯丁二烯（HCBd）	87-68-3	禁止含有 Not detected 常用於橡膠加工以及液壓油，傳熱液或變壓器油的溶劑。 Commonly used in rubber processing and solvent of hydraulic oil, heat transfer fluid or transformer oil.
4	五氯硫酚（PCTP）	133-49-3	禁止含有 Not detected 常用於橡膠加工，使其更加柔軟。 It is often used in rubber processing to make it softer.
5	2,4,6-三叔丁基苯酚 （2,4,6-TTBP）	732-26-3	≤0.3% 常作為燃料添加劑和噴油器清潔劑中的抗氧化劑，以及 潤滑油的添加劑。 It is often used as an antioxidant in fuel additives, fuel injector cleaners and lubricating oil additives.

B 級資料



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附錄：CAS No.清單

Appendix : CAS No. List

表 1 鉛及其化合物

Table 1 - Lead and its Compounds

Material	CAS Numbers
Lead	7439-92-1
Lead (II) sulfate	7446-14-2
Lead (ii) carbonate	598-63-0
Lead hydrocarbonate	19783-14-3
Lead acetate	301-04-2
Lead (ii) acetate, trihydrate	6080-56-4
Lead phosphate	7446-27-7
Lead selenide	12069-00-0
Lead (iv) oxide	1309-60-0
Lead (ii,iv) oxide	1314-41-6
Lead (ii) sulfide	1314-87-0
Lead (ii) oxide	1317-36-8
Lead (ii) carbonate basic	1319-46-6
Lead hydroxidcarbonate	1344-36-1
Lead (ii) phosphate	7446-27-2
Lead (ii) chromate	7758-97-6
Lead (ii) titanate	12060-00-3
Lead Sulfate, Sulphuric acid, lead salt	15739-80-7
Lead sulphate, tribasic	12202-17-4
Lead stearate	1072-35-1
Other Lead compounds	—
Lead in PVC	—

表 2 鎘及其化合物

Table 2 - Cadmium and its Compounds

Material	CAS Numbers
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Cadmium	7440-43-9
Cadmium oxide	1306-19-0
Cadmium sulfide	1306-23-6
Cadmium chloride	10108-64-2
Cadmium sulfate	10124-36-4
Other cadmium compounds	—

表 3 汞及其化合物

Table 3 - Mercury and its Compounds

Material	CAS Numbers
Mercury	7439-97-6
Mercuric chloride	33631-63-9
Mercury (II) chloride	7487-94-7
Mercuric sulfate	7783-35-9
Mercuric nitrate	10045-94-0
Mercuric (II) oxide	21908-53-2
Mercuric sulfide	1344-48-5
Other mercury compounds -	—

表 4 六價鉻及其化合物

Table 4 - Chromium VI and its Compounds

Material	CAS Numbers
Chromium (VI) oxide	1333-82-0
Barium chromate	10294-40-3
Calcium chromate	13765-19-0
Chromic acetate	1066-30-4
Chromium trioxide	1333-82-0
Lead (II) chromate	7758-97-6
Sodium chromate	7775-11-3
Sodium dichromate	7789-12-0,10588-01-9
Strontium chromate	7789-06-2



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Potassium dichromate	7778-50-9
Potassium chromate	7789-00-6
Zinc chromate	13530-65-9
Other Hexavalent chromium compounds	—
Ammonium dichromate	7789-09-5
Acids generated from Chromium Trioxide and their oligomers Group containing: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2

表 5 多溴聯苯 (PBBs)

Table 5 Polybrominated Biphenyls (PBBs)

Material	CAS Numbers
Polybrominated Biphenyls	59536-65-1
Dibromobiphenyl	92-86-4
2-Bromobiphenyl	2052-07-5
3-Bromobiphenyl	2113-57-7
4-Bromobiphenyl	92-66-0
Tribromobiphenyl	59080-34-1
Tetrabromobiphenyl	40088-45-7
Pentabromobiphenyl	56307-79-0
Hexabromobiphenyl	59080-40-9
Hexabromo-1,1-biphenyl	36355-01-8
Firemaster FF-1	67774-32-7
Heptabromobiphenyl	35194-78-6
Octabromobiphenyl	61288-13-9
Nonabromobiphenyl	27753-52-2
Decabromobiphenyl	13654-09-6
3,4,5-Tribromodiphenyl	115245-08-4
2,4,6-Tribromodiphenyl	59080-33-0
3,3',4,4',-tetrabromobiphenyl	77102-82-0
2,2',4,5',-tetrabromobiphenyl	60044-24-8
2,2',4,5',6-pentabromobiphenyl	59080-39-6



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3,3',4,4',5,5'-Hexabromodiphenyl	60044-26-0
2,2',3,3',4,5',6,6'-Octabromodiphenyl	19264-60-7
Decabromobiphenyl	13654-09-06
2,2',4,4',5,6'-Hexabromobiphenyl	36402-15-0
2,2',3,3',5,5'-Hexabromobiphenyl	55066-76-7
2,2',4,4',6,6'-Hexabromobiphenyl	59261-08-4
2,2',3,4,4',5'-Hexabromobiphenyl	67888-98-6
2,3',4,4',5,5'-Hexabromobiphenyl	67888-99-7
2,2',3,4',5',6'-Hexabromobiphenyl	69278-59-7
2,3,3',4,4',5'-Hexabromobiphenyl	77607-09-1
2,2',3,4,4',5'-Hexabromobiphenyl	81381-52-4
2,2',3,3',4,4'-Hexabromobiphenyl	82865-89-2
2,2',3,3',4,5'-Hexabromobiphenyl	82865-90-5
2,3,3',4',5',6'-Hexabromobiphenyl	82865-91-6
2,3,3',4,4',5'-Hexabromobiphenyl	84303-47-9
2,3',4,4',5',6'-Hexabromobiphenyl	84303-48-0
2,2',3,4',6,6'-Hexabromobiphenyl	93261-83-7
2,2',3,3',4,6'-Hexabromobiphenyl	119264-50-5
2,2',3,3',5,6'-Hexabromobiphenyl	119264-51-6
2,2',3,4,5',6'-Hexabromobiphenyl	119264-52-7
2,2',3,5,5',6'-Hexabromobiphenyl	119264-53-8
2,2',3,4,5,5'-Hexabromobiphenyl	120991-47-1
2,3,3',4,5,5'-Hexabromobiphenyl	120991-48-2

表 6 多溴二苯醚 (PBDEs)

Table 6 Polybrominated Diphenyls Ethers (PBDEs)

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Material	CAS Numbers
Bromodiphenyl ether	101-55-3
Dibromodiphenyl ether	2050-47-7
Tribromodiphenyl ether	49690-94-0
Tetrabromodiphenyl ether	40088-47-9



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Benzene, 1,1'-oxybis-,pentabromo deriv.	32534-81-9
Hexabromodiphenyl ether	36483-60-0
Heptabromodiphenyl ether	68928-80-3
Octabromodiphenyl ether	32536-52-0
Nonabromodiphenyl ether	63936-56-1
Decabromodiphenyl ether	1163-19-5
Decabromobiphenyl	13654-09-6
Hexabromobiphenyl	36355-01-8
1,2,3-tribromo-4-phenylbenzene	51202-79-0
2,2',5-TRIBROMOBIPHENYL	59080-34-1
Benzene, 1,1'-oxybis[tribromo	31153-30-7
Benzene,1,3,5-tribromo-2-(2,4,6-tribromophenoxy)	35854-94-5
2,2',4,4',5,5'-HEXABROMODIPHENYL ETHER	68631-49-2
1,2,4,5-Tetrabromo-3-(2,4-dibromophenoxy)benzene	116995-33-6
2,2',4,4',5,6'-HEXABROMODIPHENYL ETHER	207122-15-4
Benzene,1,2,4-tribromo-5-(2,4-dibromophenoxy)	60348-60-9
Benzene, pentabromophenoxy	189084-65-9
Benzene,2,4-dibromo-1-(2,4-dibromophenoxy)	5436-43-1
Benzene,1,1'-oxybis[3,4-dibromo	93703-48-1
Benzene, 1,1'-oxybis[3,5-dibromo	103173-66-6
1,2,4,5-Tetrabromo-3-(2,4,6-tribromophenoxy)benzene	116995-32-5
Benzene, 1,2,3,5-tetrabromo-4-(2,4,6-tribromophenoxy)	117948-63-7
Benzene, 1,2,3,5-tetrabromo-4-(2,4,5-tribromophenoxy)	207122-16-5
Heptabromodiphenyl ether	446255-22-7
Other PBDEs compounds	—

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表 7 銻及其化合物

Table 7 Antimony and its compounds

Material	CAS Numbers
Antimony	7440-36-0
Antimony trichloride	10025-91-9



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Antimony trioxide	1309-64-4
Antimony pentoxide	1314-60-9
Sodium antimony	15432-85-6
Other antimony compounds	—

表 8 砷及其化合物

Table 8 Arsenic and its compounds

Material	CAS Numbers
Arsenic	7440-38-2
Gallium arsenide	1303-00-0
Arsenic pentoxide (Diarsenic pentoxide)	1303-28-2
Arsenic trioxide (Diarsenic trioxide)	1327-53-3
Calcium arsenate	7778-44-1
Calcium arsenite	27152-57-4
Potassium arsenite	10124-50-2
Potassium arsenate	7784-41-0
Lead arsenate	3687-31-8
Other arsenic compounds	—
Arsenic acid	7778-39-4

表 9 石棉及其化合物

Table 9 Asbestos and its Compounds

Material	CAS Numbers
Asbestos	1332-21-4
Actinolite	77536-66-4
Amosite (Grunerite)	12172-73-5
Anthophyllite	77536-67-5
Chrysotile	12001-29-5
Crocidolite	12001-28-4
Tremolite	77536-68-6
Other asbestos compounds	—



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表 10 鈹及其化合物

Table 10 Beryllium and its compounds

Material	CAS Numbers
Beryllium	7440-41-7
Beryllium oxide	1304-56-9
Beryllium-aluminium alloy	12770-50-2
Beryllium chloride	7787-47-5
musk Beryllium fluoride	7787-49-7
Beryllium hydroxide	13327-32-7
Beryllium phosphate	13598-15-7
Beryllium sulfate	13510-49-1
Beryllium sulfate tetrahydrate	7787-56-6
Beryl ore	1302-52-9
Beryllium carbonate	66104-24-3
Beryllium nitrate	13597-99-4
Other Beryllium compounds	—

表 11 致癌物、誘導有機體突變物質、致生殖毒性物質

Table 11 Carcinogens, mutagens and reproductive toxins (CMR)

Material	CAS Numbers
1,1,2-Trichloroethane	79-00-5
1,1-Dichloroethane	75-34-3
1,2,3-Trichloropropane	96-18-4
1,3-Butadiene	106-99-0
1,4-Dichloro-2-butene	764-41-0
1-Bromopropane (n-propyl bromide)	106-94-5
1-Naphthylamine	134-32-7
2,3-Dibromopropanol	96-13-9
2,4,5-Trimethylaniline	137-17-7
2,4-Diaminoanisole	615-05-4
2-Amino-4-nitrotoluene	99-55-8
2-Bromopropane	75-26-3



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2-Methoxy-5-methylaniline (6-methoxy-m-toluidine) (P-CRESIDINE)	120-71-8
2-Methoxypropanol	1589-47-5
2-Naphthylamine	91-59-8
2-Nitronaphthalene	581-89-5
3,3- Dichlorobenzidine	91-94-1
3,4-Dinitrotoluene	610-39-9
4-Aminodiphenyl	92-67-1
5-Nitroacenaphthene	602-87-9
Acetaldehyde	75-07-0
Acetamide	60-35-5
Acrylamide	79-06-1
Aniline	62-53-3
Aromatic hydrocarbons	—
Asbestos	132207-33-1
Azafenidin	68049-83-2
Azobenzene	103-33-3
Ammonium dichromate	7789-09-5
Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2
Benz(e)acephenanthrylene	205-99-2
Benz[a]anthracene	56-55-3
Benzene	71-43-2
Benzidine [and its salts]	92-87-5
Benzo(k)fluoranthene	207-08-9
Benzo[e]pyrene	192-97-2
Benzo[j]fluoranthene	205-82-3
Benzotrichloride	98-07-7
Benzyl chloride	100-44-7
C.i. Acid Red 114	6459-94-5



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C.i. Direct Blue 15	2429-74-5
Calcium chromate	13765-19-0
Carbazole	86-74-8
Carbon monoxide	630-08-0
Chloroform	67-66-3
Citrus Red No. 2	6358-53-8
Cobalt [ii] Oxide	1307-96-6
Hydrocarbon	—
Chromium trioxide	1333-82-0
D&C Orange No. 17	3468-63-1
D&C Red No. 8	2092-56-0
Diazomethane	334-88-3
Dibenz[a,h]anthracene	53-70-3
Diethyl Sulfate	64-67-5
Disperse Blue 1	2475-45-8
Distillates (coal tar)	—
Distillates (coal)	—
Distillates (petroleum)	—
Dimethyl sulfoxide (DMSO)	—
Ethyl acrylate	140-88-5
Ethylbenzene	100-41-4
Ethylene dibromide	106-93-4
Extract oils (coal)	—
Extracts (petroleum)	—
Foots oil (petroleum)	—
Formamide 75-12-7	—
Fuel oil	—
Furan	110-00-9
Glycidol	556-52-5
Hexachloroethane	67-72-1
Hydrocarbon	—

B 級資料



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Indium phosphide	22398-80-7
Isobutyl nitrite	542-56-3
Lead acetate	301-04-2
Lubricating oils (petroleum)	—
M-dinitrobenzene	99-65-0
Methoxyacetic acid	625-45-6
Methyl azoxy methyl acetate	592-62-1
N,N'-diacetylbenzidine	613-35-4
Naphtha (coal)	—
Naphtha (petroleum)	—
Naphthalene	91-20-3
Nitrobenzene	98-95-3
N-Methylacetamide	79-16-3
N-Nitrosodiethylamine	55-18-5
O-Aminoazotoluene	97-56-3
O-Dinitrobenzene	528-29-0
O-Nitroanisole	91-23-6
P-Aminoazobenzene	60-09-3
Paraffin oils (petroleum)	—
Paraffin waxes (coal)	—
P-dinitrobenzene	100-25-4
Petrolatum (petroleum)	—
Petroleum; Crude oil	8002-05-9
Phenols, C9-11; distillate phenols	91079-47-9
Phenyl glycidyl ether	122-60-1
P-Nitrosodiphenylamine	156-10-5
Ponceau 3R	3564-09-8
Potassium bromate	7758-01-2
Propylene Oxide	75-56-9
Potassium chromate	7789-00-6
Potassium dichromate	7778-50-9



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R-2,3-Epoxy-1-propanol	57044-25-4
Raffinates (petroleum)	—
Residual oils (petroleum)	—
Residues (coal tar)	—
Residues (petroleum)	—
Slack wax (petroleum)	—
Solvent Naphtha (coal)	—
Solvent Naphtha (petroleum)	—
Strontium chromate	7789-06-2
Styrene oxide	96-09-3
Sulfallate	95-06-7
Sycloheximide	66-81-9
Sodium chromate	7775-11-3
Sodium dichromate	7789-12-0; 10588-01-9
Tar brown-coal	101316-83-0
Tar oils	—
Tetrachloroethane	79-34-5
Thioacetamide	62-55-5
Thorium dioxide	1314-20-1
Toluene diisocyanate	26471-62-5
Trichloroethylene	79-01-6
Tridemorph	24602-86-6
Triethyl arsenate	15606-95-8
Trimethyl phosphate	512-56-1
Tris(2-chloroethyl) phosphate	115-96-8
Urethane (ethyl carbamate)	51-79-6
Vinyl bromide	593-60-2

表 12 氯丹類化合物

Table 12 Chlordanes

Material	CAS Numbers
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Gamma-chlordene	3734-48-3
Trans- chlordene	5103-74-2
Cis- chlordene	5103-71-9
Heptachlor	76-44-8
Oxychlordane	27304-13-8
Trans-nonachlor	39765-80-5
Cis-nonachlor	5103-73-1

表 13 氯化碳氫化合物

Table 13 Chlorinated hydrocarbon compounds

Material	CAS Numbers
1,1 Dichloroethylene	75-35-4
Pentachloroethane	76-01-7
Methylenechloride	75-09-2
Tetrachloromethane (carbon tetrachloride)	56-23-5
1,1,1-trichloroethane (methyl chloroform) and its isomers except 1,1,2-trichloroethane	71-55-6
1,1,1,2 Tetrachloroethane	630-20-6
1,1,2,2 Tetrachloroethane	79-34-5
Tetrachloroethylene	127-18-4
Trichloromethane	67-66-3
1,1,2 Trichloroethane	79-00-5
Trichloroethylene	79-01-6
Bis(chloromethyl) ether	542-88-1
Pentachlorophenol	87-86-5
Polychlorinated Phenols and their salts	—
Vinyl Chloride (monomer)	75-01-04

表 14 鈷及其化合物

Table 14 Cobalt and its compounds

Material	CAS Numbers
Cobalt (II) oxide	1307-96-6



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Cobalt (II) sulfate, hydrate	60459-08-7
Cobalt(III) chloride	10241-04-0
Cobalt arsenate	29871-10-1
Cobalt bromide	7789-43-7
Cobalt carbonyl	10210-68-1
Cobalt chloride	7646-79-9
Cobalt dichloride (CoCl ₂)	7646-79-9
Cobalt cyanide	14965-99-2
Cobalt iodide	15238-00-3
Cobalt iron oxide	12052-28-7
Cobalt nickel oxide	12737-30-3
Cobalt oxide	11104-61-3
Cobalt phosphate	17409-91-5
Cobalt selenide	1307-99-9
Cobalt silicate	26686-74-8
Cobalt sulfide	12013-10-4
Cobalt tin Oxide	12139-93-4
Cobalt titanium oxide	12017-01-5
Cobalt trioxide	1308-04-9
Cobalt zirconium oxide	39361-75-6
Cobalt(2+) selenite	10026-23-0
Lithium dioxocobaltate	12190-79-3
Other Cobalt compounds	—
Cobalt(II) dinitrate	10141-05-6
Cobalt(II) carbonate	513-79-1
Cobalt(II) diacetate	71-48-7

表 15 偶氮化合物

Table 15 Azo compounds

Material	CAS Numbers
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Biphenyl-4-ylamine	92-67-1
Benzidine	92-87-5
4-chloro-o-toluidine	95-69-2
2-naphthylamine	91-59-8
O-aminoazotoluene	97-56-3
5-nitro-o-toluidine	99-55-8
4-chloroaniline	106-47-8
4-methoxy-m-phenylenediamine	615-05-4
4,4'-methylenedianiline	101-77-9
3,3'-dichlorobenzidine	91-94-1
3,3'-dimethoxybenzidine	119-90-4
3,3'-dimethylbenzidine	119-93-7
4,4'-methylenedi-o-toluidine	838-88-0
6-methoxy-m-toluidine	120-71-8
2,2-dichloro-4,4-methylenedianiline (MOCA)	101-14-4
4,4'-oxydianiline	101-80-4
4,4'-thiodianiline	139-65-1
O-toluidine	95-53-4
4-methyl-m-phenylenediamine	95-80-7
2,4,5-trimethylaniline	137-17-7
O-anisidine	90-04-0
4-amino azobenzene	60-09-3
Benzidine-Based Dyes	—

表 16 戴奧辛

Table 16 Dioxins

R 級資料

Material	CAS Numbers
Polychlorinated Dibenzo-p-Dioxin	—
Polychlorinated Dibenzofuran	—
Co- PCBs	—
Polychlorinated dibenzofurans (PCDFs)	136677-10-6



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1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	35822-46-9
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	39227-28-6
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	57653-85-7
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	19408-74-3
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	3268-87-9
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	40321-76-4
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	67562-39-4
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	55673-89-7
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	70648-26-9
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	57117-44-9
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	72918-21-9
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	60851-34-5
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	39001-02-0
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	57117-41-6
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	57117-31-4
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	51207-31-9

表 17 氟化溫室氣體

Table 17 Fluorinated Greenhouse Gases

Material	CAS Numbers
Carbon tetrafluoride (Perfluoromethane)	75-73-0
Perfluoroethane (Hexafluoroethane)	76-16-4
Perfluoropropane (Octafluoropropane)	76-19-7
Perfluorobutane (Decafluorobutane)	355-25-9
Perfluoropentane (Dodecafluoropentane)	678-26-2
Perfluorohexane (Tetradecafluorohexane)	355-42-0
Perfluorocyclogutane	115-25-3
Sulfur Hexafluoride(SF6)	2551-62-4
Trifluoromethane (HFC-23)	75-46-7
Difluoromethane (HFC-32)	75-10-5



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Fluoromethane (HFC-41)	593-53-3
1,1,1,2,3,4,4,5,5,5-decafluoropentane (HFC-43-10)	138495-42-8
2H, 3H-Decafluoropentane (HFC-43-10mee)	138495-42-8
Pentafluoroethane (HFC-125)	354-33-6
1,1,1,2-tetrafluoroethane (HFC-134a)	811-97-2
1,1-Difluoroethane (HFC-152a)	75-37-6
1,1,2-trifluoroethane (HFC-143)	430-66-0
1,1,1-trifluoroethane (HFC-143a)	420-46-2
1,1,1,2,3,3,3-heptafluoropropane (HFC-227ca)	431-89-0
1,1,1,2,2,3,3-heptafluoropropane (HFC-227ca)	2252-84-8
1,1,1,2,3,3-hexafluoropropane (HFC-236ea)	431-63-0
1,1,1,3,3,3-hexafluoropropane (HFC-236fa)	690-39-1
1,1,2,2,3-pentafluoropropane (HFC-245ce)	679-86-7
1,1,1,3,3-pentafluoropropane (HFC-245fa)	460-73-1
Nitrogen trifluoride	7783-54-2
HFC-134	359-35-3
HFC- 356mff, HFC-356-ffa	407-59-0
1,1,2,2,3,3-hexafluoropropane (HFC-236ca)	27070-61-7
1,1,1,2,2,3-hexafluoropropane (HFC-236cb)	677-56-5
HFC-125/143a/134a=44/52/4	—
HFC-32/125/134a=20/40/40	—
HFC-32/125/134a=23/25/52	—
HFC-32/125=50/50	—
HFC-32/125=45/55	—
HFC-32/143a=50/50	—
Difluoroethane	25497-28-3
HFC-23/FC-116=39/61	—
HFC-23/FC-116=46/54	—
1,2-Difluoroethane (HFC-152)	624-72-6
1,1,1,2,2-Pentafluoropropane	1814-88-6
1,1,1,3,3-Pentafluorobutane (HFC 365mfc)	406-58-6



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Monofluoroethane (Ethyl fluoride) (HFC-161)	353-36-6
Heptafluorocyclopentane (HFC-c-447ef)	15290-77-4
Perfluorocarbon (PFC)	—
Hydrogenerated fluorocarbon	—
Hydrofluorocarbons	—

表 18 鹵化芳香族化合物

Table 18 Halogenated aromatic substances

Material	CAS Numbers
Polychlorinated biphenyls (PCB)	—
Halogenated diarylalcanes	—
Halogenated benzenes	—
1,2,3-Trichlorobenzene	87-61-6
Monomethyl tetrachloro diphenyl methane Trade name: Ugilec 141	76253-60-6
Monomethyl dichloro diphenyl methane Trade name: Ugilec 121, Ugilec 21	81161-70-8
Monomethyl dibromo dipenyl methane Trade name: DBBT	99688-47-8
Chlorobenzene (Monochlorobenzene, MCB)	108-90-7
Dichlorobenzene, 1,2- (ortho-DCB)	95-50-1
Dichlorobenzene, 1,4- (para-DCB)	106-46-7
Tetrachlorobenzene, 1, 2, 4, 5	95-94-3
Tetrachlorobenzene, 1, 2, 3, 5	634-90-2
Tetrachlorobenzene, 1, 2, 3, 4	634-66-2
Trichlorobenzene, 1, 2,4	120-82-1

表 19 鹵化聯苯醚

Table 19 Halogenated diphenyl methanes

Material	CAS Numbers
Monomethyl tetrachloro diphenyl methane Trade name: Ugilec 141	76253-60-6



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Monomethyl dichloro diphenyl methane Trade name: Ugilec 121, Ugilec 21	81161-70-8
Monomethyl dibromo dipenyl methane Trade name: DBBT	99688-47-8
Monomethyldichlorodiphenylmethane	—

表 20 鹵化阻燃劑 (溴化阻燃劑和氯化阻燃劑, 除 PBBs 和 PBDEs 外)

Table 20 Halogenated flame retardants/additives (BFRs and CFRs, other than PBBs or PBDEs)

Material	CAS Numbers
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	—
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	—
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	—
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls) in combination with antimony compounds]	—
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	—
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]	—
Poly(2,6-dibromo-phenylene oxide)	69882-11-7

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Tetra-decabromo-diphenoxy-benzene	58965-66-5
1,2-Bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1
3,5,3',5'-Tetrabromo-bisphenol A (TBBA)	79-94-7
TBBA, unspecified	30496-13-0
TBBA-epichlorhydrin oligomer	40039-93-8
TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5
TBBA carbonate oligomer	28906-13-0
TBBA carbonate oligomer, phenoxy end capped	94334-64-2
TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3
TBBA-bisphenol A-phosgene polymer	32844-27-2
Brominated epoxy resin end-capped with tribromophenol	139638-58-7
Brominated epoxy resin end-capped with tribromophenol	135229-48-0
TBBA-(2,3-dibromo-propyl-ether)	21850-44-2
TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
TBBA-bis-(allyl-ether)	25327-89-3
TBBA-dimethyl-ether	37853-61-5
Tetrabromo-bisphenol S	39635-79-5
TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
2,4-Dibromo-phenol	615-58-7
2,4,6-Tribromo-phenol	118-79-6
Pentabromo-phenol	608-71-9
2,4,6-Tribromo-phenyl-alltl-ether	3278-89-5
Tribromo-phenyl-allyl-ether, unspecified	26762-91-4
Bis(methyl)tetrabromo-phthalate	55481-60-2
Bis(2-ethylhexyl)tetrabromo-phthalate (TBPH or BEHTBP)	26040-51-7
2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	20566-35-2
TBPA, glycol-and propylene-oxide esters	75790-69-1
N,N'-Ethylene -bis-(tetrabromo-phthalimide)	32588-76-4
Ethylene-bis85,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0
2,3-Dibromo-2-butene-1,4-diol	3234-02-4
Dibromo-neopentyl-glycol	3296-90-0



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Dibromo-propanol	96-13-9
Tribromo-neopentyl-alcohol	36483-57-5
Poly tribromo-styrene	57137-10-7
Tribromo-styrene	61368-34-1
Dibromo-styrene grafted PP	171091-06-8
Poly-dibromo-styrene	31780-26-4
Bromo-/Chloro-paraffins	68955-41-9
Bromo-/Chloro-alpha-olefin	82600-56-4
Vinylbromide	593-60-2
Tris-(2,3-dibromo-propyl)-isocyanurate	52434-90-9
Tris(2,4-Dibromo-phenyl) phosphate	49690-63-3
Tris(tribromo-neopentyl) phosphate	19186-97-1
Chlorinated and Brominated phosphate ester	125997-20-8
Pentabromo-toluene	87-83-2
Pentabromo-benzyl bromide	38521-51-6
1,3-Butadiene homopolymer, brominated	68441-46-3
Pentabromo-benzyl-acrylate, monomer	59447-55-1
Pentabromo-benzyl-acrylate, polymer	59447-57-3
Decabromo-diphenyl-ethane	84852-53-9
Tribromo-bisphenyl-maleinimide	59789-51-4
Brominated trimethylphenyl-lindane	59789-51-4
Other Brominated Flame Retardants	—
Hexabromo-cyclo-dodecane (HBCD), unspecified	3194-55-6
Tetrabromo-chyclo-octane	31454-48-5
1,2-Dibromo-4-(1,2 dibromo-methyl)-cyclo-hexane	3322-93-8
TBPA Na salt	25357-79-3
Tetrabromo phthalic anhydride	632-79-1
2,3,4,5-tetrabromobenzoic acid	27581-13-1

表 21 鎳及其化合物

Table 21 Nickel and its compounds



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Material	CAS Numbers
Nickel	7440-02-0
Nickel acetate	373-02-4
Nickel carbonate	3333-67-3
Nickel carbonyl	13463-39-3
Nickel hydroxide	12054-48-7 or 11113-74-9
Nickelocene	1271-28-9
Nickel oxide	1313-99-1
Nickel subsulfide	12035-72-2
Other nickel compounds	—
Nickel sulfamate	13770-89-3
Nickel sulphate	7786-81-4
	10101-97-0
	10101-98-1

表 22 壬基酚，壬基酚聚氧乙烯醚

Table 22 Nonylphenol, ethoxylates and related substances

Material	CAS Numbers
2-(2-(2-(P-nonylphenoxy)ethoxy)ethoxy)ethanol	7311-27-5
2-(2(P-nonylphenoxy)ethoxy)ethanol	20427-84-3
2-(P-nonylphenoxy)ethanol	104-35-8
Ethanol, 2-[2-(nonylphenoxy)ethoxy]-	27176-93-8
Ethoxynonyl-benzene	28679-13-2
N-Nonylphenol(Mixed isomers)	25154-52-3
Nonylphenol	104-40-5
Nonylphenol Ethoxyate	37340-60-6
Nonphenol Ethoxyate	68412-53-3
Nonylphenol hepta(oxyethylene)ethanol	27177-05-5
Nonylphenol nona(oxyethylene)ethanol	27177-08-8
Nonylphenol polyethylene glycol ether	9016-45-9
Nonylphenol, industrial	84852-15-3
Nonylphenoxy ethanol	27986-36-3



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Oxirane, methyl-, polymer with oxirane, mono(nonylphenyl)ether	37251-69-7
Phenol, nonyl-, phosphite	26523-78-4
P-nonylphenol polyethylene glycol ether	26027-38-3
Poly(oxy-1,2-ethanediyl), alpha-(2-n-nonylphenyl)-omega-hydroxy	51938-25-1, 37205-87-1, 68412-54-4, 127087-87-0
Nonylphenol, branched	90481-04-2
Isononylphenol	11066-49-2
p-Isononylphenol	26543-97-5
p-(Nonan-2-yl)phenol	17404-66-9
p-(2-Methyloctan-2-yl) phenol	30784-30-6
4-(3-Methyloctan-3-yl) phenol	52427-13-1
o-Nonylphenol	136-83-4
Octylphenol ethoxylates	9002-93-1, 9036-19-5, 68987-90-6
4-Nonylphenol, branched and linear	—

表 23 有機錫化合物

Table 23 Organic Tin Compounds

Material	CAS Numbers
Tributyl tin bromide	1461-23-0
Tributyl tin oxide	56-35-9
Tributyl tin acetate	56-36-0
Tributyl tin laurate	3090-36-6
Tributyl tin fluoride	1983-10-4
Triphenyl tin	668-34-8
Triphenyl tin chloride	639-58-7
Triphenyl tin hydroxide	76-87-9
Triphenyl tin acetate	900-95-8
Triphenyltinfluoride	379-52-2
Triphenyltin-N, N-dimethyldithiocarbamate	1803-12-9
triphenyl[(2,2,4,4-tetramethyl-oxopentyl)oxy]-	18380-71-7
Triphenylstannyl 2-isopropyl-2,3-dimethylbutanoate	18380-72-8



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Triphenyltin fatty acid (C9-11) salt	47672-31-1
Stannane, [(1-oxoundecyl)oxy]triphenyl-	94850-90-5
Triphenyltinchloroacetate	7094-94-2
Tributyltinmethacrylate	2155-70-6
Bis(tributyltin)fumalate	6454-35-9
Bis(tributyltin)2,3-dibromosuccinate	31732-71-5
Bis(tributyltin)phthalate	4782-29-0
Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate(alkyl: C=8)	67772-01-4
Tributyltinsulfamate	6517-25-5
Bis(tributyltin)maleate	14275-57-1
Tributyltin chloride	1461-22-9
Chloro(triisobutyl)stannane	7342-38-3
Tributyltin-1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthrenecarboxylatemix	26239-64-5
Tetra-n-butyltin (TBT)	1461-25-2
Tributyltin(TBT)	56573-85-4
Dibutyltin oxide	818-08-6
Dibutyltin diacetate	1067-33-0
Dibutyltin dilaurate	77-58-7、26636-01-1、25168-24-5、 25168-21-2、 1185-81-5、25852-70-4、54849-38-6
Dibutyltin maleate	78-04-6
Diocetyl Tin Oxide	870-08-6
Diocetyl tin dilaurate	3648-18-8
Dibutyltin bis(benzyl maleate); Benzyl (Z,Z)-8,8-dibutyl-3,6,10-trioxo-1-phenyl-2,7,9-trioxa-8-stannatri d eca-4,11-dien-13-oate;	7324-74-5
Diocetyl tin dichloride; Stannane, dichlorodiocetyl-,	3542-36-7
Di(n-octyl)tin bis(isooctylthioglycolate) ; Diisooctyl	26401-97-8

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2,2'-[(dioctylstannylene)bis(thio)]diacetate	
Dibutyltin	1002-53-5
Dioctyltin	15231-44-4
Dioctyl tin maleate	16091-18-2
Bis (tributyltin) fumalate	24291-45-0
Tributyl tin fluoride	7304-48-5
Bis(tributyltin)2,3-dibromosuccinate	56323-17-2
Bis(tributyltin)maleate	24291-45-0
Other tri-substituted organostannic compounds	—
Mixture of tributyltin cyclopentanecarboxylate and its analogs (Tributyltin naphthenate)	85409-17-2
Tributyltin	688-73-3
Tributyltin benzoate	4342-36-3
Tributyltin linoleate	24124-25-2
Alkyl tin compounds	—
Monobutyl tin compounds (MBT)	—
Monooctyl tin compounds (MOT)	—
Monophenyl tin compounds (MPhT)	—
Dimethyl tin compounds (DMT)	—
Dibutyl tin compounds (DBT)	—
Dioctyl tin compounds (DOT)	—
Diphenyl tin compounds (DPhT)	—
Trimethyl tin compounds (TMT)	—
Triethyl tin compounds (TET)	—
Tripropyl tin compounds (TPT)	—
Triphenyl tin compounds (TPhT)	—
Tricyclohexyl tin compounds (TcyT)	—
Tetraethyl tin compounds (TeET)	—
Tetrabutyl tin compounds (TeBT)	—
Tetraphenyl tin compounds (TePhT)	—
Hexamethylditin compounds	—

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Bis[tris(2-methyl-2-phenylpropyl)tin oxide	—
Bis(2-ethylhexanate)tin	—
Others Organotin compounds	—
Tributyltin oxide (TBTO)	—

表 24 二丁基錫及其化合物

Table 24 Dibutyl Tin (DBT) and its compounds

Material	CAS Numbers
Dibutyl Tin (DBT)	1002-53-5
Dibutyltin di(2-ethylhexanoate)	2781-10-4
Dibutyltin Dichloride	683-18-1
Dibutyltin Dilaurate	77-58-7
Dibutyltin Hydrogen Borate	75113-37-0
Dibutyltin Oxide	818-08-6
Dibutyltin Diacetate	1067-33-0
Dibutyltin Maleate	78-04-6
Other DBT Compounds	—
Dibutyltin hydrogen borane (DBB)	—

表 25 二辛基錫及其化合物

Table 25 Dioctyl Tin (DOT) and its compounds

Material	CAS Numbers
Dioctyl Tin (DOT)	15231-44-4
Dioctyl tin Oxide	870-08-6
Dioctyltin dilaurate	3648-18-8
Other DOT compounds	—
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecan oate (DOTE)	15571-58-1
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecan oate and 2-ethylhexyl	—

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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)

表 26 臭氧層破壞物質

Table 26 Ozone depleting substances (ODS)

Material	CAS Numbers
Trichlorofluoromethane (CFC-11) and its isomers	75-69-4
Dichlorodifluoromethane (CFC-12) and its isomers	75-71-8
Trichlorotrifluoroethane (CFC-113) and its isomers	26523-64-8 76-13-1 354-58-5
Dichlorotetrafluoroethane (CFC-114) and its isomers	1320-37-2 76-14-2 374-07-2
Monochloropentafluoroethane (CFC-115) and its isomers	76-15-3
Bromochloromethane; Chlorobromomethane (Halon-1011)	74-97-5
Bromochlorodifluoromethane (Halon-1211) and its isomers	353-59-3 11104-73-7
Bromotrifluoromethane (Halon-1301) and its isomers	75-63-8 62395-25-9
Dibromotetrafluoroethane (Halon-2402) and its isomers	25497-30-7 124-73-2 27336-23-8
Trichlorotrifluoroethane (CFC-113) and its isomers	75-72-9 185009-43-2
Pentachlorofluoroethane (CFC-111) and its isomers	354-56-3 29756-45-4
Tetrachlorodifluoroethane (CFC-112) and its isomers	28605-74-5 76-12-0 76-11-9



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Heptachlorofluoropropane (CFC-211) and its isomers	135401-87-5 422-78-6 422-81-1
Hexachlorodifluoropropane (CFC-212) and its isomers	134452-44-1 3182-26-1
Pentachlorotrifluoropropane (CFC-213) and its isomers	134237-31-3 2354-06-5
Tetrachlorotetrafluoropropane (CFC-214) and its isomers	2268-46-4 29255-31-0
Trichloropentafluoropropane (CFC-215)	28109-69-5 1599-41-3 4259-43-2 76-17-5 1652-81-9
Dichlorohexafluoropropane (CFC-216) and its isomers	661-97-2
Chloroheptafluoropropane (CFC-217) and its isomers	422-86-6 76-18-6
Carbon tetrachloride	56-23-5
1,1,1-Trichloroethane	71-55-6
Dibromofluoromethane (HBFC-21 B2)	1868-53-7
Bromodifluoromethane (HBFC-22 B1)	1511-62-2
Bromofluoromethane (HBFC-31 B1)	373-52-4
Tetrabromofluoroethane (HBFC-121 B4)	306-80-9
Tribromodifluoroethane (HBFC-122 B3)	—
Dibromotrifluoroethane (HBFC-123 B2)	354-04-1
Bromotetrafluoroethane (HBFC-124 B1)	124-72-1
Tribromofluoroethane (HBFC-131 B3)	—
Dibromodifluoroethane	75-62-1
Bromotrifluoroethane (HBFC-133 B1)	421-06-7
Dibromofluoroethane (HBFC-141 B2)	358-97-4
Bromodifluoroethane	359-07-9



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Bromofluoroethane (HBFC-151 B1)	762-49-2
Pentabromodifluoropropane	—
Tribromotetrafluoropropane (HBFC-224 B3)	—
Dibromopentafluoropropane (HBFC-225 B2)	431-78-7
Bromohexafluoropropane	2252-79-1
Tetrabromodifluoropropane	—
Tribomotrifluoropropane	—
Bromopentafluoropropane	480-88-8
Tetrabromofluoropropane	—
Tribromodifluoropropane	70192-80-2
Dibromotrifluoropropane	70192-83-5
Bromotetrafluoropropane	679-84-5
Bromoethane (Ethyl bromide)	74-96-4
Trifluoroiodomethane (Trifluoromethyl iodide)	2314-97-8
HBFCs Hydrobromofluorocarbons	—
Tetrabromofluoroethane (HBFC-121 B4)	306-80-9
	353-93-5
Dibromotrifluoroethane (HBFC-123 B2)	354-04-1
Tribromofluoroethane (HBFC-131 B3)	420-88-2
Bromodifluoroethane (HBFC-142 B1)	—
1-bromo-1,1-difluoroethane	420-47-3
1-bromo-2,2-difluoroethane	359-07-9
Hexabromofluoropropane (HBFC-221 B6)	—
Tetrabromotrifluoropropane (HBFC-223 B4)	—
Dibromopentafluoropropane (HBFC-225 B2)	431-78-7
Pentabromofluoropropane (HBFC-231 B5)	—
Tribromotrifluoropropane (HBFC-233 B3)	421-90-9
	460-88-8
	22692-16-6
Bromopentafluoropropane (HBFC-235 B1)	26391-11-7
	422-0105



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	53692-43-6 53692-44-7 577-52-1 677-53-2 679-94-7
Tribromodifluoropropane (HBFC-242 B3)	70192-80-2 666-25-1
Bromotetrafluoropropane (HBFC-244 B1)	679-84-5 19041-01-1 29151-25-5 460-67-3 70192-71-1 70192-84-6
Dibromodifluoropropane (HBFC-252 B2)	460-25-3
Dibromofluoropropane (HBFC-261 B2)	51584-26-0 1786-38-5 453-00-9 62135-10-8 62135-11-9
Bromofluoropropane (HBFC-271 B1)	1871-72-3 352-91-0
Tribromofluoropropane	75372-14-4
Dibromodifluoropropane	460-25-3
Bromotrifluoropropane	421-46-5
Dibromofluoropropane	51584-26-0
Bromodifluoropropane	—
Dibromodifluoromethane (Halon-1202)	75-61-6
Bromofluoropropane	352-91-0
Chlorobromomethane	74-97-5
Bromomethane (methyl bromide)	74-83-9
HCFC-21	75-43-4
HCFC-22	75-45-6



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HCFC-31	593-70-4
Tetrachlorofluoroethane (HCFC-121)	134237-32-4 354-11-0 354-14-3
Trichlorodifluoroethane (HCFC-122)	41834-16-6 55949-46-7 354-21-2 354-15-4 354-12-1
Dichlorotrifluoroethane(HCFC-123)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4
Chlorotetrafluoroethane (HCFC-124)	63938-10-3 354-25-6 2837-89-0
Trichlorofluoroethane (HCFC-131)	134237-34-63 27154-33-2 359-28-4 90134-98-8 811-95-0 2366-36-1
Dichlorodifluoroethane (HCFC-132)	25915-78-0 55494-45-6 31153-51-2 33579-37-2 33489-30-4 1649-08-7 1842-05-3 471-43-2 431-06-1



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Chlorotrifluoroethane (HCFC-133)	75-88-7 1330-45-6 431-07-2 421-04-5
Dichlorofluoroethane (HCFC-141)	25167-88-8 430-57-9 430-53-5 1717-00-6
Chlorodifluoroethane (HCFC-142)	25497-29-4 338-65-8 338-64-7 55949-44-5 75-68-3
Chlorofluoroethane (HCFC-151)	1615-75-4 110587-14-9 762-50-5
Hexachlorofluoropropane (HCFC-221)	29470-94-8 134237-35-73 431-79-8 422-40-2 422-26-4 422-28-6
Pentachlorodifluoropropane (HCFC-222)	134237-36-83 422-49-1 422-30-0 116867-32-4 431-82-3 431-80-1 422-27-5



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HCFC-223	134237-37-93 422-52-6 422-50-4 29470-95-9 54002-59-4 431-83-4 431-81-2 422-41-3 422-35-5 422-29-7
Trichlorotetrafluoropropane (HCFC-224)	134237-38-03 422-54-8 422-53-7 422-51-5 127564-91-4 53063-53-9 53063-52-8 431-84-5 422-47-9 422-42-4 422-32-2
Dichloropentafluoropropane (HCFC-225)	127564-92-5 128903-21-9 422-56-0 422-28-0 422-44-6 13474-88-9 431-86-7 136013-79-1 111512-56-2 111512-55-1 111512-51-7



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	2713-09-9 507-55-1 422-48-0
Chlorohexafluoropropane (HCFC-226)	134308-72-83 431-87-8 28987-04-4 51346-64-6 422-57-1 422-55-9 359-58-0
Pentachlorofluoropropane (HCFC-231)	134190-48-03 421-94-3
Tetrachlorodifluoropropane (HCFC-232)	134237-39-1 460-89-9 127564-82-3 67879-59-8 1112-14-7 677-54-3
Trichlorotrifluoropropane (HCFC-233)	134237-40-43 7125-83-9 61623-04-9 131221-36-8 131211-71-7 54377-32-1 54306-56-8 13058-99-6 7125-84-0 431-51-6 421-99-8 421-95-4 333-26-6



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Dichlorotetrafluoropropane (HCFC-234)	127564-83-4 425-94-5 76140-39-1 70341-81-0 70192-63-1 64712-27-2 53149-65-8 53063-54-0 17705-30-5 4071-01-6 422-00-5
Chloropentafluoropropane (HCFC-235)	134237-41-5 460-92-4 108662-83-5
Tetrachlorofluoropropane (HCFC-241)	134190-49-13 84816-05-7 23153-22-2 21981-25-9 7126-06-9 3175-26-6 3175-25-5 666-27-3
Trichlorodifluoropropane (HCFC-242)	127564-90-3 134237-42-63 460-63-9 7164-14-9 1112-13-6 431-24-3 1112-05-6 7126-05-8 7126-04-7



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Dichlorotrifluoropropane (HCFC-243)	134237-43-73 338-75-0 460-69-5 116890-51-8 7126-01-4 7125-99-7 7126-00-3 67406-68-2 70192-70-0
Chlorotetrafluoropropane (HCFC-244)	134190-50-43 117970-90-8 679-85-6 67406-66-0 2730-64-5 19041-02-2 421-73-8 421-75-0
Trichlorofluoropropane (HCFC-251)	134190-51-53 84847-80-3 84847-79-0 76985-34-7 76985-33-6 67832-50-2 67832-44-4 7126-16-1 70192-89-1 818-99-5 76937-36-5 421-41-0 3175-24-4



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Dichlorodifluoropropane (HCFC-252)	134190-52-63 1112-01-2 131404-17-6 121612-64-4 7126-15-0 70192-74-4 82578-00-5 819-00-1 111483-26-2 1112-36-3
Chlorotrifluoropropane (HCFC-253)	26588-23-8 134237-44-83 421-47-6 460-35-5 134251-05-1 69202-10-4 121612-65-5 83124-56-5 70192-76-6 56758-54-4
Dichlorofluoropropane (HCFC-261)	127404-11-9 134237-45-93 7779-56-6 53074-31-0 53074-30-9 7799-55-5 420-97-3 453-01-0 83124-60-1 816-38-6



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Chlorodifluoropropane (HCFC-262)	134190-53-73 421-02-3 430-93-3 83124-57-6 430-96-6 37161-81-2 102738-79-4 420-99-5
Chlorofluoropropane (HCFC-271)	134190-54-83 430-55-7 430-46-6 462-38-4 20372-78-5 420-44-0
1-Bromopropane (N-propyl bromide)	106-94-5
Chloromethane (Methyl chloride)	74-87-3
Tribromodifluoroethane (HBFC 122 B3)	353-97-9 677-34-9 7304-53-2
Bromotetrafluoroethane (HBFC- 124 B1)	127-72-1
Dibromodifluoroethane (HBFC-132 B2)	—
1,1-dibromo-2,2-difluoroethane	359-19-3
1,2-dibromo-1,1-difluoroethane	75-82-1
1,1-dibromo-2,2-difluoroethane	359-19-3
Dibromofluoroethane (HBFC-141 B2)	358-97-4
Bromofluoroethane (HBFC-151 B1)	762-49-2
Pentabromodifluoropropane (HBFC-222 B5)	—
Tribromotetrafluoropropane (HBFC-224 B3)	666-48-8
Bromoheptafluoropropane (HBFC-226 B1)	2252-78-0
Tetrabromodifluoropropane (HBFC-232 B4)	148875-98-3
Dibromotetrafluoropropane (HBFC-234 B2)	460-86-6
Tetrabromofluoropropane (HBFC-241 B4)	148875-95-0



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Dibromotrifluoropropane (HBFC-243 B2)	431-21-0
Tribromofluoropropane (HBFC-251 B3)	75372-14-4
Bromotrifluoropropane (HBFC-253 B1)	421-46-5
	460-32-2
Bromodifluoropropane (HBFC-262 B1)	111483-20-6
	2195-05-3
	420-89-3
	420-98-4
	430-87-5
	461-49-4
Chloromethane (methyl chloride)	74-87-5
CH ₂ FBr	—
C ₂ HFBr ₄	—
C ₂ HF ₂ Br ₃	—
C ₂ HF ₄ Br	—
C ₂ H ₂ FBr ₃	—
C ₂ H ₃ F ₂ Br	—
C ₃ HFBr ₆	—
C ₃ HF ₂ Br ₅	—
C ₃ HF ₃ Br ₄	—
C ₃ HF ₄ Br ₃	—
C ₃ HF ₅ Br ₂	—
C ₃ HF ₆ Br	—
C ₃ H ₂ FBr ₅	—
C ₃ H ₂ F ₂ Br ₄	—
C ₃ H ₂ F ₃ Br ₃	—
C ₃ H ₂ F ₄ Br ₂	—
C ₃ H ₂ F ₅ Br	—
C ₃ H ₃ FBr ₄	—
C ₃ H ₃ F ₂ Br ₃	—
C ₃ H ₃ F ₃ Br ₂	—

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C3H3F4Br	—
C3H4FBr3	—
C3H4F2Br2	—
C3H4F3Br	—
C3H5FBr2	—
C3H5F2Br	—
C3H6FBr	—

表 27 全氟辛酸銨（PFOA）

Table 27 Perfluorooctanic acids (PFOA)

Material	CAS Numbers
Perfluorooctanoic acid	335-67-1
Ammonium perfluorooctanoate (APFO)	3825-26-1
Sodium perfluorooctanoate	335-95-5
Potassium perfluorooctanoate	2395-00-8
Silver perfluorooctanoate	335-93-3
Pentadecafluorooctanoyl fluoride	335-66-0
Methyl perfluorooctanoate	376-27-2
Ethyl perfluorooctanoate	3108-24-5
Chromium(3+) perfluorooctanoate	68141-02-6
N,N,NTriethylethanaminium perfluorooctanoate	98241-25-9
1,1,2,2-Tetrahydroperfluoro 1 decanol	678-39-7
Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10 heptafluorodecyl) hydrogen phosphate	678-41-1
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10 Heptafluorodecyl Acrylate	27905-45-9
Perfluorooctyl iodide	507-63-1

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表 28 全氟辛烷磺酸及其鹽類 (PFOS)

Table 28 Perfluorooctane sulfonate and its salts (PFOS)

Material	CAS Numbers
Perfluorooctanesulfonic acid	1763-23-1
Perfluorooctanesulfonate amine	29081-56-9
Bis(2-hydroxyethyl) ammonium perfluorooctanesulfonate	70225-14-8
Potassium perfluorooctanesulfonate	2795-39-3
Lithium perfluorooctanesulfonate	29457-72-5
Perfluorooctane sulfonyl fluoride (PFOSF)	307-35-7
Other perfluorooctane Sulfonate and its salts	—

表 29 多環芳香烴化合物類 (PAHs)

Table 29 Polycyclic aromatic hydrocaebons (PAHs)

Material	CAS Numbers
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benzo[a]anthracene	56-55-3
Benzo[b]fluoranthene	205-99-2
Benzo[j]fluoranthene	205-82-3
Benzo[k]fluoranthene	207-08-9
Benzo[g,h,i]perylene	191-24-2
Benzo[a]pyrene	50-32-8
Benzo[e]pyrene	192-97-2
Chrysene	218-01-9
Dibenzo[a, h]anthracene	53-70-3
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno[1,2,3-cd]pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0



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表 30 多氯聯苯（PCBs）

Table 30 Polychlorinated Biphenyls (PCBs)

Material	CAS Numbers
Polychlorinated Biphenyls	1336-36-3
Monomethyl-tetrachloro-diphenyl methane(Ugilec 141)	76253-60-6
2,2',3,4,4',5,6-HEPTACHLOROBIPHENYL	74472-47-2
Monomethyl-dichloro-diphenyl methane (Ugilec 121, Ugilec 21)	81161-70-8
Monomethyl-dibromo-diphenyl methane (DBBT)	99688-47-8
3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	32598-13-3
3,4,4',5-Tetrachlorobiphenyl (PCB 81)	70362-50-4
3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	57465-28-8
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	32774-16-6
2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	32598-14-4
2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	74472-37-0
2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	31508-00-6
2,3'4,4'5'-Pentachlorobiphenyl (PCB 123)	65510-44-3
2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	38380-08-4
2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	69782-90-7
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	52663-72-6
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	39635-31-9

表 31 多氯三聯苯（PCT）

Table 31 Polychlorinated Terphenyls (PCTs)

Material	CAS Numbers
Aroclor	12767-79-2
Chlorodiphenyl (Aroclor 1260)	11096-82-5
Kanechlor 500	27323-18-8
Aroclor 1254	11097-69-1
Terphenyls	26140-60-3
Polychlorinated terphenyls	61788-33-8



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Polychlorinated Biphenyls	1336-36-3
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表 32 多氯化萘 (PCN)

Table 32 Polychlorinated Naphthalene (PCN)

Material	CAS Numbers
Trichloronaphthalene	1321-65-9
Tetrachloronaphthalene	1335-88-2
Pentachloronaphthalene	1321-64-8
Octachloronaphthalene	2234-13-1
Polychlorinated Naphthalenes	70776-03-3
2-ChloroNaphthalene	91-58-7
Naphthalene,2,6-dichloro	2065-70-5
Other polychlorinated Naphthalenes	—
Hexachloronaphthalene	1335-87-1
1,5-Dichloronaphthalene	1825-30-5
1,4-Dichloronaphthalene	1825-31-6
1,2-Dichloronaphthalene	2050-69-3
1,6-Dichloronaphthalene	2050-72-8
1,7-Dichloronaphthalene	2050-73-9
1,8-Dichloronaphthalene	2050-74-0
2,3-Dichloronaphthalene	2050-75-1
1,3-Dichloronaphthalene	2198-75-6
2,7-Dichloronaphthalene	2198-77-8
1,4,6-Trichloronaphthalene	2437-54-9
1,4,5-Trichloronaphthalene	2437-55-0
1,4,5,8-Tetrachloronaphthalene	3432-57-3
1,2,4,8-Tetrachloronaphthalene	6529-87-9
1,2,4,5-Tetrachloronaphthalene	6733-54-6
1,2,3,6,7,8-Hexachloronaphthalene	17062-87-2
1,2,3,4-Tetrachloronaphthalene	20020-02-4
Dichloronaphthalene	28699-88-9



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1,3,5,8-Tetrachloronaphthalene	31604-28-1
Heptachloronaphthalene	32241-08-0
2,3,6,7-Tetrachloronaphthalene	34588-40-4
1,2,4-Trichloronaphthalene	50402-51-2
1,2,3-Trichloronaphthalene	50402-52-3
1,3,5-Trichloronaphthalene	51570-43-5
1,2,6-Trichloronaphthalene	51570-44-6
1,2,4,6-Tetrachloronaphthalene	51570-45-7
1,2,3,5-Tetrachloronaphthalene	53555-63-8
1,3,5,7-Tetrachloronaphthalene	53555-64-9
1,2,3,5,7-Pentachloronaphthalene	53555-65-0
1,2,5-Trichloronaphthalene	55720-33-7
1,2,7-Trichloronaphthalene	55720-34-8
1,2,8-Trichloronaphthalene	55720-35-9
1,3,6-Trichloronaphthalene	55720-36-0
1,3,7-Trichloronaphthalene	55720-37-1
1,3,8-Trichloronaphthalene	55720-38-2
1,6,7-Trichloronaphthalene	55720-39-3
2,3,6-Trichloronaphthalene	55720-40-6
1,2,3,7-Tetrachloronaphthalene	55720-40-7
1,3,6,7-Tetrachloronaphthalene	55720-42-8
1,4,6,7-Tetrachloronaphthalene	5572-43-90
1,2,3,4,5,6,7-Heptachloronaphthalene	58863-14-2
1,2,3,4,5,6,8-Heptachloronaphthalene	58863-15-3
1,2,3,4,5,6-Hexachloronaphthalene	58877-88-6
1,2,4,7-Tetrachloronaphthalene	67922-21-8
1,2,5,6-Tetrachloronaphthalene	67922-22-9
1,2,5,7-Tetrachloronaphthalene	67922-23-0
1,2,6,8-Tetrachloronaphthalene	67922-24-1
1,2,3,4,5-Pentachloronaphthalene	67922-25-2
1,2,3,4,6-Pentachloronaphthalene	67922-26-3



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1,2,3,4,5,7-Hexachloronaphthalene	67922-27-4
1,2,4,5,6,8-Hexachloronaphthalene	90948-28-0
1,2,4,5,7,8-Hexachloronaphthalene	103426-92-2
1,2,3,4,5,8-Hexachloronaphthalene	103426-93-3
1,2,3,5,7,8-Hexachloronaphthalene	103426-94-4
1,2,3,5,6,8-Hexachloronaphthalene	103426-95-5
1,2,3,4,6,7-Hexachloronaphthalene	103426-96-6
1,2,3,5,6,7-Hexachloronaphthalene	103426-97-7
1,2,3,6-Tetrachloronaphthalene	149864-78-8
1,2,6,7-Tetrachloronaphthalene	149864-79-9
1,2,5,8-Tetrachloronaphthalene	149864-80-2
1,2,3,8-Tetrachloronaphthalene	149864-81-3
1,2,7,8-Tetrachloronaphthalene	149864-82-4
1,2,3,7,8-Pentachloronaphthalene	150205-21-3
1,3,6,8-Tetrachloronaphthalene	150224-15-0
1,2,3,6,7-Pentachloronaphthalene	150224-16-1
1,2,4,6,7-Pentachloronaphthalene	150224-17-2
1,2,3,5,6-Pentachloronaphthalene	150224-18-3
1,2,4,5,7-Pentachloronaphthalene	150224-19-4
1,2,4,5,6-Pentachloronaphthalene	150224-20-7
1,2,4,7,8-Pentachloronaphthalene	150224-21-8
1,2,4,6,8-Pentachloronaphthalene	150224-22-9
1,2,3,6,8-Pentachloronaphthalene	150224-23-0
1,2,3,5,8-Pentachloronaphthalene	150224-24-1
1,2,4,5,8-Pentachloronaphthalene	150224-25-2
1-Chloronaphthalene	90-13-1

B 級資料

表 33 放射性物質

Table 33 Radioactive Substances

Material	CAS Numbers
Uranium	7440-61-6



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Plutonium	7440-07-5
Radon	10043-92-2
Americium	7440-35-9
Thorium	7440-29-1
Cesium	7440-46-2
Strontium	7440-24-6
Other radioactive compounds	—

表 34 敏感性物質

Table 34 Sensitizing substance

Material	CAS Numbers
1,3,5-Triglycidyl Isocyanurate	2451-62-9
1,3-Benzenediamine	108-45-2
1,4-Benzenediamine	106-50-3
1,6-Hexanediol Diacrylate	13048-33-4
2-Ethylhexyl Acrylate	103-11-7
2-Mercaptobenzothiazole	149-30-4
2-Phenylethylisocyanat	1943-82-4
3-Aminopropyldiethylamine	104-78-9
3-Azidosulfonylbenzoic acid	15980-11-7
6-Hydroxyindole	2380-86-1
9-Vinylcarbazole	1484-13-5
Acetochlor	34256-82-1
Acrylonitrile	107-13-1
Allylamine Hydrochloride	71550-12-4
Aniline	62-53-3
Barban	101-27-9
Basic violet 1	8004-87-3
Benomyl	17804-35-2
Bentazon	25057-89-0
Benzo[a]pyrene	50-32-8



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Benzothiazyl disulfide	120-78-5
Benzoyl peroxide	94-36-0
Bisphenol A	80-05-7
C.I. direct yellow 166	114565-65-0
Captafol	2425-06-1
Cobalt	7440-48-4
Cyanamide	420-04-2
Diaminotoluene	25376-45-8
Dichlordiphenprop	51338-27-3
Diethylenetriamine	111-40-0
Dimethyl Sulfate	77-78-1
Dinocap	39300-45-3
Disulfiram	97-77-8
Epichlorohydrin	106-89-8
Fenoxaprop-ethyl	66441-23-4
Flumetralin	62924-70-3
Formaldehyde	50-00-0
Formetanate	22259-30-9
Glyoxalaldehyde	107-22-2
Hexaconazole	79983-71-4
Hydrazine	302-01-2
Hydroquinone	123-31-9
Isobutenyl Chloride	563-47-3
Isophorone Diamine	2855-13-2
Metham Sodium	137-42-8
Molinate	2212-67-1
Monobenzene	103-16-2
N-Butyl acrylate	141-32-2
O-Ethylhydroxylamine	624-86-2
O-Phenylenediamine	95-54-5
P-Chloroaniline	106-47-8



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Pendimethalin	40487-42-1
Pentanedial	111-30-8
Phosphine oxide, Phenylbis	162881-26-7
Phthalic anhydride	85-44-9
Polyethylenepolyamines	68131-73-7
Potassium Chromate	7789-00-6
Priazul lauroyl lactylate	58856-63-6
Propiconazole	60207-90-1
Prosulfocarb	52888-80-9
Quinomethionate	2439-01-2
Reactive navy der 7678	155522-09-1
Rosin	8050-09-7
Tecnazene	117-18-0
Thiram	137-26-8
Tri-allate	2303-17-5
Trifluralin	1582-09-8
Triphenyl Phosphate	115-86-6
Turpentine, oil	8006-64-2
Valinamide	20108-78-5
Ziram	137-30-4

表 35 鋇及其化合物

Table 35 Barium and its compounds

Material	CAS Numbers
Barium Compounds	7440-39-3, 1304-28-5
Barium Cyanide	542-62-1
Other Barium and its compounds	—

表 36 DHTDMAC, DODMAC/DSDMAC, DTDMAC （表面活性劑及其化合物）

Table 36 DHTDMAC, DODMAC/DSDMAC, DTDMAC (Surfactants and its compounds)

Material	CAS Numbers
Dimethyl ditallow ammonium chloride, DTDMAC	68783-78-8



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Diocetyl dimethyl ammonium chloride/ Distearyl dimethyl ammonium chloride, DODMAC/DSDMAC	107-64-2
Dihydrogenated tallow dimethyl ammonium chloride, DHTDMAC	61789-80-8

表 37 三價鉻及其化合物

Table 37 Chromium (III) compounds

Material	CAS Numbers
Ammonium Chromium(III) Sulfate Dodecahydrate	10022-47-6
Chromic Chloride	10025-73-7
Chromium(III) Bromide	10031-25-1
Chromium Trichloride Hexahydrate	10060-12-5
Chromic Sulfate	10101-53-8
Chromium Potassium Sulfate	10141-00-1
Chromic Acetate	1066-30-4
Chromium(III) sulfide	12018-22-3
Chromium oxide	1308-38-9
Chromium(III) Phosphate Hexahydrate	13475-98-4
Chromium(III) Bromide Hexahydrate	13478-06-3
Chromic Perchlorate	13537-21-8
Chromium Nitrate	13548-38-4
Ammonium Chromic Sulfate	13548-43-1
Chromium(III) Iodide	13569-75-0
Chromate(1-), Diamine Tetrakis(Thiocyanate-N)-, Ammonium, (OC-6-11)	13573-16-5
Reinecke salt Monohydrate; Ammonium Tetra Thiocyanate Diammine Chromate	13573-17-6
Potassium Hexacyano Chromate(III)	13601-11-1
Chromium(III) Sulfate N-hydrate	15244-38-9
Tris(ethylene Diamine)Chromium(III) Chloride hydrate	16165-32-5
Chromium(III) Acetyl Acetonate	21679-31-2
Chromium(III) Nitride	24094-93-7



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Chromium(III) Acetate Monohydrate	25013-82-5
Chromium Phosphide	26342-61-0
Chromium(III) Oxalate	30737-19-0
Chromium(III) Perchlorate Hexahydrate	55147-94-9
Neochromium	64093-79-4
Chromium	7440-47-3
Chromium(III) Fluoride	7788-97-8
Chromium Potassium Sulfate Dodeca Hydrate	7788-99-0
Chromium Nitrate, Nona Hydrate	7789-02-8
Chromium(III) Phosphate	7789-04-0
Dichromium tris(chromate)	24613-89-6

表 38 氰化物

Table 38 Cyanogen compounds

Material	CAS Numbers
Benzonitrile	100-47-0
Acrylonitrile	107-13-1
Ethylene Cyanohydrin	109-78-4
2,6-Diclnoro Benzonitrile	1194-65-6
Thallium(I) Cyanide	13453-34-4
Phenyl Acetonitrile	140-29-4
Sodium Cyanide	143-33-9
Copper Cyanide	14763-77-0
Potassium Cyanide	151-50-8
Calcium Cyanamide	156-62-7
Palladium(II) Cyanide	2035-66-7
Cesium Cyanide	21159-32-0
Cyanazine	21725-46-2
Cyanamide	420-04-2
Cyanogen	460-19-5
Silver Cyanide	506-64-9



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Gold(I) Cyanide	506-65-0
Cyanogen Bromide	506-68-3
Cyanogen Chloride	506-77-4
Cyanogen Iodide	506-78-5
Gold(I)cyanide Trihydrate	535-37-5
Gold(I) Cyanide	535-37-5
Barium Cyanide	542-62-1
Cadmium Cyanide	542-83-6
Cobalt(II) Cyanide	542-84-7
Cuprous Cyanide	544-92-3
Nickel Cyanide	557-19-7
Zinc Cyanide	557-21-1
Calcium Cyanide	592-01-8
Mercuric Cyanide	592-04-1
Lead Cyanide	592-05-2
Platinam(II) Cyanide	592-06-3
Hydrogen Cyanide	74-90-8
Trimethylsilyl Cyanide	7677-24-9
Sodium Cyanide	917-61-3

表 39 鹵化(氯,溴)有機化合物

Table 39 Halogenated(Cl,Br) organic compounds

Material	CAS Numbers
Tris (2-chloroethyl)phosphate	115-96-8
TBBA-(2,3-dibromo-propyl-ether)	21850-44-2
1,2,5,6,9,10-Hexabromocyclodecane	3194-55-6
1,1,2,2-Tetrabromoethane	79-27-6
Tetrabromo-Bisphenol A(TBBA)	79-94-7
Hexabromobenzene	87-82-1
Polytetrafluoroethylene	9002-84-0
Tribromomethane	75-25-2



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2,4,6-Tribromo-Phenol	118-79-6
TBBA-Bis(2-Hydroxy-ethyl-ether)	4162-45-2

表 40 錳及其化合物

Table 40 Manganese and its compounds

Material	CAS Numbers
Manganese	7439-96-5
Manganese(II) Bromide Tetrahydrate	10031-20-6
Manganese(II) Sulfate Heptahydrate	10034-96-5
Manganese Hypophosphite	10043-84-2
Sodium Permanganate	10101-50-5
Manganese(III) Phosphate Hydrate	10124-54-6
Dimanganese Decacarbonyl	10170-69-1
Manganese(II) Nitrate	10377-66-9
Manganese Arsenide	12005-95-7
Manganese Phosphide	12032-78-9
Manganese Silicide	12032-86-9
Manganese Telluride	12032-88-1
Maneb	12427-38-2
Manganese Carbide	12777-96-7
Manganese(IV) Oxide	1313-13-9
Manganese Monoselenide	1313-22-0
Manganese(III) Oxide, 98%(assay); Manganese Trioxide	1317-34-6
Manganomanganic Oxide; Manganese Tetra Oxide; Trimanganese Tetraoxide; Manganese(II,III) Oxide; Manganese Oxide(II,III); Manganese(II) Sulfate	1317-35-7
Manganese(II) Sulfate	13224-08-3
Manganese(II) Oxide	1344-43-0
Manganese(II) Bromide	13446-03-2
Manganese(II) Chloride Tetrahydrate	13446-34-9
Ammonium Manganese Sulfate	13566-22-8
Manganese(II) Sulfite	13568-71-3



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Manganese(II) phosphate	14154-9-7
Acetylacetone Manganese(III) Salt; Tris (2,4-pentanedionate) Manganese;	14284-89-0
Manganese(II) Perchlorate	15364-94-0
Manganese(II) Nitrate Hexahydrate	17141-63-8
Manganese Sulfide	18820-29-6
Manganese(II) Carbonate	598-62-9
Manganese(II) Acetate Tetrahydrate	6156-78-1
Manganese(II) Acetate	638-38-0
Manganese Oxalate	640-67-5
Manganese(II) Oxalate Dehydrate	6556-16-7
Manganese	7439-96-5
Potassium Dey Manganate	7722-64-7
Manganese(II) Chloride; Mangesedichloride	7773-01-5
Manganese Difluoride	7782-64-1
Manganese Phosphate, Dibasic	7782-76-5
Manganese(II) Hypophosphite Monohydrate	7783-16-6
Manganese(III) Fluoride	7783-53-1
Manganese(II) Iodide	7790-33-2
Manganese(III) Acetate	993-2-2
Other Manganese Compounds	—

表 41 抗微生物和/或生物農藥的物質

Table 41 Antimicrobial and/or Biocidal substances

Material	CAS Numbers
Abamectin	71751-41-2
Acrolein	107-02-8
alphachloralose	15879-93-3
Aluminium phosphide releasing phosphine	20859-73-8
Basic Copper carbonate	12069-69-1
Bendiocarb	22781-23-3
Bifenthrin	82657-04-3



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Boric acid	10043-35-3
Boric oxide	1303-86-2
Brodifacoum	56073-10-0
Bromadiolone	28772-56-7
Carbon dioxide	124-38-9
Chlorophacinone	3691-35-8
Clothianidin	210880-92-5
Copper (II) hydroxide	26427-59-2
Copper (II) oxide	1317-38-0
Coumatetralyl	5836-29-3
Creosote	8001-58-9
DDACarbonate	894406-76-9
Dazomet	533-74-4
DCOIT (4,5-Dichloro- 2-octyl-2H- isothiazol-3- one)	64359-81-5
DEET	134-62-3
Deltamethrin	52918-63-5
Dichlofluanid	1085-98-9
Difenacoum	56073-07-5
Difethialone	104653-34-1
Disodium octaborate tetrahydrate	12280-03-4
Disodium tetraborate	1330-43-4
Etofenprox	80844-07-1
Fenoxycarb	72490-01-8
Fenpropimorph	67564-91-4
Fipronil	120068-37-3
Flocoumafen	90035-08-8
Flufenoxuron	101463-69-8
Imidacloprid	138261-41-3
Indoxacarb	173584-44-6
IPBC	55406-53-6
K-HDO	66603-10-9



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Lambda-cyhalothrin	91465-08-6
Magnesium phosphide releasing phosphine	12057-74-8
Margosa extract	84696-25-3
Methyl nonyl ketone	112-12-9
Metofluthrin	240494-70-6
Nitrogen	7727-37-9
Nonanoic acid	112-05-0
Propiconazole	60207-90-1
Spinosad	168316-95-8
Sulfuryl fluoride	2699-79-8
Sulfuryl fluoride	2699-79-8
Tebuconazole	107534-96-3
Thiabendazole	148-79-8
Thiacloprid	111988-49-9
Thiamethoxam	153719-23-4
Tolylfluanid	731-27-1
Warfarin	81-81-2
Warfarin sodium	129-06-6
(Z,E)-tetradeca-9,12-dienyl acetate	30507-70-1
Aldrin	309-00-2
Gamma-Chlordene	3734-48-3
Trans- Chlordene	5103-74-2
Cis- Chlordene	5103-71-9
Heptachlor	76-44-8
Oxychlordane	27304-13-8
Trans-Nonachlor	39765-80-5
Cis-Nonachlor	5103-73-1
DDT	50-29-3
Dieldrin	60-57-1
Mirex	2385-85-5
Pentachlorophenol (PCP)	87-86-5



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Toxaphene	8001-35-2
Chlordecone	143-50-0
Endosulfan	115-29-7
Endosulfan I	959-98-8
Endosulfan II	33213-65-9
1,4-Dichlorobenzene	106-46-7
Endrin	72-20-8
Ortho boric acid	11113-50-1
Disodium tetraborate, pentahydrate	12179-04-3
Disodium tetraborate, decahydrate	1303-96-4
Tetraboron disodium heptaoxide, hydrate	12267-73-1

表 42 鄰苯二甲酸鹽

Table 42 Phthalates

Material	CAS Numbers
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8
Diisodecyl Phthalate (DIDP)	68515-49-1, 26761-40-0
Diisononyl Phthalate (DINP)	28553-12-0, 68515-48-0, 71549-78-5
Diisopentyl Phthalate (DIPP)	605-50-5
N-pentyl-isopentyl Phthalate (nPIPP)	776297-69-9
Dimethyl Phthalate (DMP)	131-11-3
Diethyl Phthalate (DEP)	84-66-2
Di-n-hexyl Phthalate (DnHP, DHEXP)	84-75-3
Di-n-pentyl Phthalate (DPP, DnPP, DPENP)	131-18-0
Di-n-undecyl Phthalate (DUP)	3648-20-2
Dicyclohexyl phthalate (DCHP)	84-61-7
Other Phthalates	—
Di-n-octyl phthalate (DNOP)	117-84-0
Bis(2-propylheptyl) phthalate (DPHP)	53306-54-0



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Di-n-propyl phthalate (DPRP)	131-16-8
Di-n-nonyl phthalate (DNP)	84-76-4
Di-iso-hexyl phthalate (DIHP)	68515-50-4
Di-iso-octyl phthalate (DIOP)	2755-26-3
Dibenzyl phthalate (DBZP)	523-31-9
Benzyl 2-ethylhexyl phthalate	27215-22-1
Diallyl phthalate (DAP)	131-17-9
Butyl cyclohexyl phthalate BCP)	84-64-0
N-pentyl-isopentyl Phthalate (nPIPP)	776297-69-9
Ditridecyl phthalate (DTDP)	119-06-2
Bis(methylcyclohexyl) phthalate	27987-25-3
Cyclohexyl isobutyl phthalate, Phthalic acid 1-cyclohexyl 2-isobutyl ester	5334-09-8
1,2-Benzenedicarboxylic acid, 1,2-diundecyl ester, branched and linear	85507-79-5
1,2-Benzenedicarboxylic acid (C7,C9) ester, branched and linear, Heptyl nonyl phthalate, branched and linear	111381-89-6
1,2-Benzenedicarboxylic acid (C9,C11) ester, branched and linear, Branched and linear nonyl undecyl phthalate	111381-91-0
1,2-Benzenedicarboxylic acid, benzyl C7-9-branched and linear alkyl esters, Benzyl octyl phthalate	68515-40-2
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4
1,2-Benzenedicarboxylic acid, di-C9-11-branched and linear alkyl esters	68515-43-5
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-49-1
1,2-Benzenedicarboxylic acid, di-C11-14-branched alkyl esters, C13-rich	68515-47-9



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Benzyl 3-isobutyryloxy-1-isopropyl-2,2-dimethylpropyl phthalate	16883-83-3
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
Triethylene glycol dimethyl ether;1,2-Bis(2-methoxyethoxy)ethane;Triglyme	112-49-2

表 43 硒及其化合物

Table 43 Selenium and its compounds

Material	CAS Numbers
Selenium	7782-49-2
Hydrogen selenide	7783-07-5
Sodium selenide	1313-85-5
Selenium dioxide	7446-08-4
Sodium selenate	10112-94-4
Dimethyl selenide	593-79-3
Selenium oxide	12640-89-0
Selenous acid (H ₂ SeO ₃)	7783-00-8
Other selenium compounds	—

表 44 四溴雙酚 A (TBBPA, TBBA)

Table 44 Tetrabromo-bisphenol A (TBBPA,TBBA)

Material	CAS Numbers
Tetrabromo-Bisphenol A	79-94-7
TBBA, unspecified	30496-13-0
TBBA-Epichlorhydrin Oligomer	40039-93-8
TBBA-TBBA-Diglycidyl-ether Oligomer	70682-74-5
TBBA Carbonate Oligomer	28906-13-0
TBBA Carbonate Oligomer,Phenoxy end capped	94334-64-2
TBBA Carbonate Oligomer,2,4,6-Tribromo-Phenolterminated	71342-77-3
TBBA-Bisphenol A-phosgene polymer	32844-27-2
TBBA-(2,3-dibromo-propyl-ether)	21850-44-2
TBBA Bis-(2-hydroxy-ethyl-ether)	4162-45-2



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TBBA-Bis-(allyl-ether)	25327-89-3
TBBA-Dimethyl-ether	37853-61-5
2-Ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB)	183658-27-7

表 45 鋅及其化合物

Table 45 Zinc and its compounds

Material	CAS Numbers
Zinc Perchlorate Hexahydrate	10025-64-6
Zinc Iodide	10139-47-6
Zinc Nitrate Hexahydrate	10196-18-6
Zinc Chlorate	10361-95-2
Zinc Nitride	1313-49-1
Zinc Oxide	1314-13-2
Zinc Phosphide	1314-84-7
Zinc Sulfide	1314-98-3
Zinc Telluride	1315-11-3
Zinc Chromate	13530-65-9
Zinc Perchlorate	13637-61-1
Ammonium Zinc Sulfate	13814-87-4
Potassium Zinc Sulfate	13932-17-7
Zinc Phosphate, Monobasic	14485-28-0
Zinc Ammonium Chloride	14639-97-5
Zinc Hypophosphite	15060-64-7
Zinc Fluorosilicate	16871-71-9
Dimethyl Zinc	544-97-8
Diethyl Zinc	557-20-0
Zinc Cyanide	557-21-1
Zinc Acetate	557-34-6
Zinc Thiocyanate	557-42-6
Zinc Acetate Dehydrate	5970-45-6
Zinc Fluoride Tetrahydrate	73640-07-0



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Sulfuric Acid, Zinc Salt(1:1), Heptahydrate	7446-20-0
Zinc Chloride	7646-85-7
Zinc Bromide	7699-45-8
Zinc Sulfate	7733-02-0
Zinc Hydrosulfite	7779-86-4
Zinc Nitrate	7779-88-6
Zinc Fluoride	7783-49-5
Ammonium Zinc Sulfate Hydrate	77998-33-5

表 46 異氰酸酯

Table 46 Isocyanates

Material	CAS Numbers
1,5 -Naphtalene di-Isocyanate (NDI)	3173-72-6
2,4-/2,6-Toluene di-isocyanate	26471-62-5
2,4-Toluene di-isocyanate (TDI)	584-84-9
Hexamethylene di-Isocyanate (HDI)	822-06-0
Isophorone di-Isocyanate (IPDI)	4098-71-0
Methylene Bis-(4-cyclohexylisocyanate)	5124-30-1
Methylene Bisphenyl Isocyanate (MDI)	101-68-8
Polyisocyanates (Isocyanate Prepolymers)	—
Polymethylene Polyphenyl Isocyanate (PAPI)	9016-87-9

表 47 鎂及鎂合金

Table 47 Magnesium and Magnesium Alloy

Material	CAS Numbers
Magnesium	7439-95-4
Other magnesium alloy	—

表 48 乳膠及其化合物

Table 48 Latex and its compounds

Material	CAS Numbers
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Polyvinylchloride Latex	9002-86-2
Styrene-butadiene Copolymer Latex	9003-56-9
Latex	9003-53-6
Other Latex and its compounds	—

表 49 介面活性劑

Table 49 Surfactant

Material	CAS Numbers
DTDMAC	68783-78-8
DODMAC/DSDMAC	107-64-2
HTDMAC	61789-80-8
Nonylphenol	25154-52-3
Nonylphenol Ethoxylate	9016-45-9
Other Surfactants	—

表 50 揮發性有機化合物

Table 50 Volatile Organic Compounds

Material	CAS Numbers
Toluene	108-88-3
Benzene	71-43-2
Trichlorobenzene	120-82-1
Other Volatile Organic Compounds	—

表 51 高氯酸鹽及化合物

Table 51 Perchlorates and its compounds

B 級資料

Material	CAS Numbers
Ammonium perchlorate	7790-98-9
Lithium perchlorate	7791-03-9
Potassium perchlorate	7778-74-7
Sodium perchlorate	7601-89-0



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Barium perchlorate	13465-95-7
Lead perchlorate	13637-76-8
Magnesium perchlorate	10034-81-8
Nickel perchlorate	13637-71-3
Other perchlorate compounds	—

表 52 六溴環十二烷及其同素異構物(HBCDD)

Table 52 Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified

Material	CAS Numbers
Cyclododecane,hexabromo	25637-99-4
1,2,5,6,9,10-Hexabromocyclododecane	3194-55-6
α -hexabromocyclododecane	134237-50-6
β -hexabromocyclododecane	134237-51-7
γ -hexabromocyclododecane	134237-52-8
1,1,2,2-Tetrabromoethane	79-27-6
rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	4736-49-6
rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	65701-47-5
(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-17-7
(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-18-8
(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-19-9
(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	169102-57-2
(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-15-5
(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-16-6
(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	678970-17-7

表 53 磷及其化合物

Table 53 Phosphorus and its compounds (P)

B 級資料

Material	CAS Numbers
Red phosphorus	7723-14-0
Yellow phosphorus	12185-10-3
White phosphorus	12185-10-3
Aluminium phosphide	20859-73-8



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ammonium phosphate monobasic	7722-76-1
Parathion	56-38-2
Methyl parathion	298-00-0
Methyl Demeton	8022-00-2
EPN	2104-64-5
Phosphorus yellow; yellow phosphorus; tricyclo[1.1.0.0~2,4~]tetraphosphane	12185-10-3
Phosphorous degreasing agent and phosphorous coating liquid	—

表 54 鉍及其化合物

Table 54 Bismuth and its compounds

Material	CAS Numbers
Bismuth	7440-69-9
Bismuth trioxide	1304-76-3
Bismuth nitrate	10361-44-1
Other bismuth compounds	—

表 55 聚氯乙烯 (PVC)

Table 55 Polyvinyl chloride (PVC)

Material	CAS Numbers
Polyvinyl chloride (PVC)	9002-86-2
Other Polyvinyl chlorides	—
Vinyl chloride/vinyl acetate copolymer	9003-22-9
Polyvinyl chloride	93050-82-9

表 56 氯化阻燃劑 (CFRs)

Table 56 Chlorinated Flame Retardants (CFRs)

B 級資料

Material	CAS Numbers
2,2-Bis(chloromethyl)trimethylene bis[bis (2-chloroethyl) phosphate	38051-10-4
Chlorendic acid	115-28-6
Tris(2,3-dichloro-1-propyl)phosphate	66108-37-0
Hexachlorocyclopentadienyl-dibromocyclooctane	51936-55-1



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Tetrakis(2-chloroethyl)dichloroisopentyldiphosphate	38051-10-4
Other chlorinated compounds	—

表 57 有機磷化合物

Table 57 The Organophosphorus compounds

Material	CAS Numbers
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8
Tris (1,3-Dichloro-2-propyl) phosphate (TDCPP)	13674-87-8
Triphenylphosphate (TPP)	115-86-6
Trimethylphosphate (TMP)	512-56-1
Trixylylphosphate (TXP)	25155-23-1
Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5

表 58 氯化苯材料

Table 58 Chlorinated benzene

Material	CAS Numbers
Chlorobenzene	108-90-7
Benzene, tetrachloro	12408-10-5
Benzene, 1,2,3,4(or1,2,4,5)-tetrachloro- (9CI)	84713-12-2
1,2,3,5-tetrachlorobenzene	634-90-2
Benzene,1,2,3,4-tetrachloro	634-66-2
1,2,4,5-Tetrachlorobenzene	95-94-3
1,2,4-Trichlorobenzene	120-82-1

表 59 五氯苯酚及其鹽類和酯類

Table 59 Pentachlorophenol(PCP) and its salts and esters

B 級資料

Material	CAS Numbers
N2-benzyl pentachlorophenyl N2-carboxy -L-(2-aminoglutaramate)	13673-51-3
Pentachlorophenol	87-86-5



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Pentachlorophenol esters	-
Pentachlorophenol salts	-
Pentachlorophenyl N-[[[(4-methoxyphenyl)methoxy]carbonyl]-L-serinate	23234-97-1
Pentachlorophenyl laurate	3772-94-9
Perchlorophenyl 5-oxo-L-proline	28990-85-4
Perchlorophenyl N-(benzyloxycarbonyl)-L-isoleucinate	13673-53-5
Perchlorophenyl S-benzyl-N-(benzyloxycarbonyl)-L-cysteinate	13673-54-6
Potassium pentachlorophenolate	7778-73-6
Sodium pentachlorophenolate	131-52-2
Zinc bis(pentachlorophenolate)	2917-32-0

表 60 銅 (Cu) 及其化合物

Copper (Cu) and its compounds

Material	CAS Numbers
Copper(II) nitrate, trihydrate(1:2:3)	10031-43-3
Copper pyrophosphate	10102-90-6
Copper chloride dihydrate	10125-13-0
Copper sulfate, monohydrate	10257-54-2
Copper(II) perchlorate hexahydrate	10294-46-9
Copper 8-quinolinolate	10380-28-6
9-Octadecenoic acid(Z)-, copper salt	10402-16-1
[18-carboxy-20(carboxymethyl)-8-ethenyl-13-ethyl-2,3-dihydro-3,7,12,17-tetramethyl-21H,23H-porphinCUPRATE(3-)]	11006-34-1
Cuprous Thiocyanate	1111-67-7
Cupric oleate	1120-44-1
Copper iron oxide	12018-79-0
Copperchromite Catalyst	12053-18-8
Copper carbonate	12069-69-1



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Copper phosphide	12134-35-9
Copper hydroxide phosphate	12158-74-6
[μ -[[4,4'-[[3,3'-di(hydroxy-κ O)[1,1'-biphenyl]-4,4'-diyl]bis(azo-κ N')]]bis[3-(hydroxy-κ O)-2,7-naphthalenedisulfonato]]]di-, tetrasodium; Cuprate, [μ -[[4,4'-[(3,3'-dihydroxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[3-hydroxy-2,7-naphthalene disulfonato]]]]di-, tetrasodium	1222-00-3
Cuprate(4-),[C-[[[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-2-sulfo phenyl]amino]sulfonul]-29H,31H-phthalocyanine-C,C,C-trisulfonato(6-) -N29,N30,N31,N32]-,tetrasodium	12225-39-7
[C-chloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-copper	12239-87-1
Bronze powder	12597-70-5
Other Copper and its compounds	-

表 61 金及其化合物

Gold (Au) and its compounds

Material	CAS Numbers
Potassium aurocyanide	13967-50-5
Gold	7440-57-5
Other Gold and its compounds	-

表 62 碲 (Te) 及其化合物

Tellurium (Te) and its compounds

Material	CAS Numbers
Tellurium	13494-80-9
Other Tellurium compounds	-

表 63 鈹 (Ti) 及其化合物

Thallium (Ti) and its compounds



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Material	CAS Numbers
Thallium	7440-28-0
Thallium monoxide	1314-12-1
Dithallium sulfate	7446-18-6
Thallium(I) nitrate	10102-45-1
Other Thallium compounds	-

表64 Perfluorinated compound (PFC)

Perfluorooctane Sulfonates (PFOS) C ₈ F ₁₇ SO ₂ X, where X = OR, NR or other derivative	-
Perfluorooctane sulfonyl fluoride (PFOSE)	307-35-7
PFOS	1763-23-1
PFOS Ion	45298-90-6
PFOS Potassium Salt	2795-39-3
PFOS Lithium Salt	29457-72-5
PFOS Tetraethylammonium Salt	56773-42-3
PFOS Triphenylsulfonium Salt	144089-15-6
PFOS Sodium Salt	4021-47-0
PFOS Ammonium Salt	29081-56-9
PFOS Amide	754-91-6
PFOA	335-67-1
PFOA Ammonium Salt	3825-26-1
PFOA Sodium Salt	335-95-5
PFOA Potassium Salt	2395-00-8
PFOA Silver Salt	335-93-3
Perfluorooctanoyl fluoride	335-66-0
Methyl PFOA	376-27-2
Ethyl PFOA	3108-24-5
Perfluoroalkylsulfoamide	70225-14-8
2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C ₄ -8-alkyl)-sulfonyl]amino]ethyl acrylate and vinylidene chloride	306975-62-2
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7

B 級資料



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2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino] ethyl ester	376-14-7
2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester	383-07-3
2-Propenoic acid, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester	423-82-5
N-allylheptadecafluorooctanesulphonamide	423-86-9
1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulfonyl]amino]- N,N,N-trimethyl-, iodide	1652-63-7
PERFLUOROOCTANOIC ANHYDRIDE	33496-48-9
perfluorodecanesulphonyl fluoride	307-51-7
perfluorohexanesulphonyl fluoride	423-50-7
N-ethylheptadecafluoro-N-(2-hydroxyethyl)octanesulphonamide	1691-99-2
N-ethylheptadecafluorooctanesulphonamide	4151-50-2
2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl methacrylate	14650-24-9
ammonium nonadecafluorononanesulphonate	17202-41-4
heptadecafluoro-N-(2-hydroxyethyl)-N-methyloctanesulphonamide	24448-09-7
2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl acrylate	25268-77-3
Poly(oxy-1,2-ethanediyl), alpha-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino] ethyl]-omega-hydroxy-heptadecafluoro-N-methyloctanesulphonamide	29117-08-6
eptadecafluoro-N-methyloctanesulphonamide	31506-32-8
[3-[[[(heptadecafluorooctyl)sulphonyl]amino]propyl]trimethylammonium chloride	38006-74-5
(2-hydroxyethyl)dimethyl[3-[(3-sulphopropyl)[(tridecafluorohexyl)sulphonyl]amino]propyl]amm onium hydroxide	38850-58-7
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt	55120-77-9
potassium decafluoro(pentafluoroethyl)cyclohexanesulphonate	67584-42-3
ammonium henicosafuorodecanesulphonate	67906-42-7
potassium nonafluorobis(trifluoromethyl)cyclohexanesulphonate	68156-01-4
2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[butyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, methyloxirane polymer with oxirane di-2-propenoate, methyloxirane polymer with oxirane mono-2-prop	68298-62-4
2-Propenoic acid, eicosyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-	68329-56-6



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2-Propenoic acid, polymer with 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl 2-methyl 2-propenoate and octadecyl 2-propenoate	68541-80-0
2-Propenoic acid, butyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tri	68555-90-8
2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl	68555-91-9
2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[me	68555-92-0
2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, telomer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, alpha-(2-methyl-1-oxo-2-propenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl), alpha-(2-methyl-1-oxo-2-prope	68586-14-1
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-1-butanedisulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N	68649-26-3
diaquatetrachloro[mu-[N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]glycinato-O1:O1']]-mu-hydroxybis(2-methylpropanol)dichromium	68891-96-3
2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulf	68867-60-7
2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl	68867-62-9
2-Propenoic acid, eicosyl ester, polymers with branched octyl acrylate, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl acrylate,	68909-15-9



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2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl acrylate	
Poly(oxy-1,2-ethanediyl), alpha-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-omega-methoxy-	68958-61-2
2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl	71487-20-2
sodium3-[[3-(dimethylamino)propyl][(tridecafluorohexyl)sulphonyl]amino]- 2-hydroxypropanesulphonate	73772-32-4
sodio(2-hydroxyethyl)[3-[(2-hydroxy-3-sulphonatopropyl) [(tridecafluorohexyl)sulphonyl]amino]propyl]dimethylammonium hydroxide	81190-38-7
Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)	91081-99-1
sodium3-[[3-(dimethylamino)propyl] [(heptadecafluorooctyl)sulphonyl]amino]-2-hydroxypropanesulphonate	94133-90-1
Sulfonamides, C7-8-alkane, perfluoro, N-methyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl], polymers with 2-ethoxyethyl acrylate, glycidyl methacrylate and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride	98999-57-6
1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, lithium salt	117806-54-9
Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-(oxiranylmethyl)	129813-71-4
Fatty acids, C18-unsatd., trimers, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl esters	148240-80-6
Fatty acids, C18-unsatd., trimers, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl esters	148240-82-8
1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-, reaction products with benzene-chlorine-sulfur chloride(S2C12) reaction products chloride...	182700-90-9
reaction products with benzene-chlorine-sulfur chloride (S2C12) reaction products chlorides	-
Sulfonamides, C4-8-alkane, perfluoro, N-(3-(dimethylamino)propyl), reaction products with acrylic acid	192662-29-6
Fattyacids, linseed-oil, dimers, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl esters	306973-46-6
Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and N,N',2-tris(6-isocyanatohexyl)imidodicarbonic diamide, reaction products	306975-56-4



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withN-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydr	
Propanoicacid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with1,1'-methylenebis[4-isocyanatobenzene] and 1,2,3-propanetriol, reactionproducts withN-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamideandN-ethy	306975-57-5
Sulfonamides,C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with12-hydroxyoctadecanoic acid and 2,4-TDI, ammonium salts	306973-47-7
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate	160901-25-7
Sulfonamides,C4-8-alkane, perfluoro,N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidinyl)methyl]	306974-19-6
Poly(oxy-1,2-ethanediyl),a-hydro-w-hydroxy-, polymer with1,6-diisocyanatohexane,N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides-bloc ked	306975-84-8
2-Propenoic acid, 2-methyl-,dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamide,2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate, stearylmetacrylate and vinylidene chloride	306975-85-9
1-Hexadecanaminium,N,N-dimethyl-N-[2-[(2-methyl-1-oxo-propenyl)oxy]ethyl]-, bromide, polymers withBu acrylate, Bu methacrylate and2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate	306976-25-0
2-Propenoic acid,2-methyl-, 2-methylpropyl ester, polymer with 2,4-diisocyanato-1-methylbenzene,2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propenoic acid,N-ethyl-N-(hydroxyethyl)perfluoro-C4-8-alkanesulfonamides-blocked	306976-55-6
Siloxanesand Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propylgroup]-terminated, polymers with2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and stearylmetacrylate	306974-28-7
Sulfonamides,C4-8-alkane, perfluoro,N,N'-[1,6-hexanediylbis[(2-oxo-3,5-oxazolidinediyl)methylene]]bis[N-methyl-	306980-27-8
Sulfonic acids,C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycolbis(2-aminopropyl) ether	306974-45-8
2-Propenoic acid,2-methyl-, 2-(dimethylamino)ethyl ester, telomer with2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate and1-octanethiol, N-oxides	306977-10-6



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Sulfonamides, C4-8-alkane, perfluoro, N-(3-(dimethyloxidoamino)propyl), potassium salts	179005-06-2
1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1)	251099-16-8
2-Propenoic acid, butylester, polymers with acrylamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidenechloride	306978-04-1
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and propyleneglycol monoacrylate, hydrolyzed, compds. with 2,2'-(methylimino)bis[ethanol]	306977-58-2
Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides- and stearylalc.-blocked	306978-65-4
Poly(oxy-1,2-ethanediyl), a-[2-(methylamino)ethyl]-w-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs	306979-40-8
N,N',N''-[phosphinylidynetris(oxyethane-2,1-diyl)]tris[N-ethylheptadecafluorooctane-1-sulphona mide]	2250-98-8
ammonium bis[2-[N-ethyl(heptadecafluorooctane)sulphonylamino]ethyl] phosphate	30381-98-7
potassium 2,3,4,5-tetrachloro-6-[[[3-[[[(heptadecafluorooctyl)sulphonyl]oxy]phenyl]amino]carbonyl]benzoat e	57589-85-2
N-ethylheptadecafluoro-N-[3-(trimethoxysilyl)propyl]octanesulphonamide	61660-12-6
diammonium N-ethylheptadecafluoro-N-[2-(phosphonatoxy)ethyl]octanesulphonamidate	67969-69-1
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene]	68608-14-0
2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pen	70776-36-2
2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate	127133-66-8
Fatty acids, C18-unsatd., trimers, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl esters	148240-78-2
Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with	148684-79-1



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1,6-diisocyanatohexane homopolymer and ethylene glycol	
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), polymers with 1,1'-methylenebis[4-isocyanatobenzene] and polymethylenepolyphenylene isocyanate, 2-ethylhexyl esters, Me Et ketone oxime-blocked	178535-22-3
Fatty acids, C18-unsatd., dimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethylesters	306974-63-0
Sodium perfluoro(octane-1-sulfonate)	4021-47-0
Tetraethylammonium perfluorooctane-1-sulfonate	56773-42-3
Piperidin-1-ium perfluorooctane-1-sulfonate	71463-74-6
Magnesium bis(perfluorooctane-1-sulfonate)	91036-71-4
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+)	68141-02-6
Ethanaminium, N,N,N-triethyl-, salt with pentadecafluorooctanoic acid (1:1)	98241-25-9
Perfluoro heptanoic Acid (PFHpA)	375-85-9
Perfluorohexanesulfonic acid	355-46-4
Ammonium perfluorohexanesulfonate	68259-08-5
Potassium Perfluorohexanesulfonate	3871-99-6
Sodium perfluorohexanoate	2923-26-4
sodium perfluorohexanesulfonate	82382-12-5
Ammonium perfluorohexanesulfonate	68259-08-5
tridecafluorohexanesulphonic acid, compound with 2,2'iminodiethanol (1:1)	70225-16-0
Lithium perfluorohexanesulfonate	55120-77-9
Perfluorohexanesulfonamide	41997-13-1
Sulfonium, [4--[(2 methyl 1 oxo 2-propenyl)oxy]phenyl]diphenyl -, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1 -hexanesulfonic acid(1:1), polymer with 2 -ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2 -propenoate, 3 -hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2 methyl-2-propenoate and tetrahydro-2-oxo-3- furanyl 2-methyl-2-propenoate	911027-69-5
Perfluoropolymethylisopropyl ether (PFPMIE)	69991-67-9

表65 雙分類物質 Bisphenol Chemicals

Material	CAS Numbers
2,2-bis(2-hydroxy-5-biphenyl)propane [BPBP]	24038-68-4



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4,4'-(1-methylpropylidene)bisphenol [BPB]	77-40-7
4,4'-(1-Phenylethylidene)bisphenol [BPAP]	1571-75-1
4,4'-(1,3-phenylene-bis(1-methylethylidene))bisphenol [BPM]	13595-25-0
4,4'-(1,4-Phenylenediisopropylidene)bisphenol [BPP]	2167-51-3
4,4'-(dichlorovinylidene)diphenol [BPC12]	14868-03-2
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol [BPAF]	1478-61-1
4,4'-cyclohexylidenebisphenol [BPZ]	843-55-0
4,4'-i-hydroxytetraphenylmethane [BPPH]	1844-01-5
4,4'-isopropylidenedi-o-cresol [BPC]	79-97-0
4,4'-isopropylidenediphenol [BPA]	80-05-7
4,4'-methylenediphenol [BPF]	620-92-8
4,4'-sulphonyldiphenol [BPS]	80-09-1
4,4'-Ethylidenebisphenol [BPE]	2081-08-5
9,9-Bis(4-hydroxyphenyl)fluorene [BPFL]	3236-71-3
Biphenyl-4,4'-diol [BP4,4']	92-88-6
Bis(2-hydroxyphenyl)methane [BIS2]	2467-09-9
p,p'-oxybisphenol [DHDPE]	1965-09-9

表66內分泌干擾物

Material	CAS Numbers
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	36861-47-9
(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1782069-81-1
(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	95342-41-9
(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-30-1
(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-21-0
(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	741687-98-9
(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-25-4
Phenol, dodecyl-, branched	121158-58-5
Phenol, 4-dodecyl, branched	210555-94-5
Phenol, 4-isododecyl-	27147-75-7



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Phenol, tetrapropylene-	57427-55-1
Phenol, (tetrapropenyl) derivatives	74499-35-7
4-isododecylphenol	27459-10-5
Butyl 4-hydroxybenzoate	94-26-8
tris(nonylphenyl) phosphite	26523-78-4
Phenol, 4-nonyl-, phosphite (3:1)	3050-88-2
Phenol, p-sec-nonyl-, phosphite	106599-06-8
Phenol, p-isononyl-, phosphite (3:1)	31631-13-7
4-tert-butylphenol	98-54-4
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.	1471311-26-8
Formaldehyde, reaction products with branched and linear heptylphenol, carbon disulfide and hydrazine	93925-00-9
p-(1,1-dimethylpropyl)phenol	80-46-6
Phenol, heptyl derivs.	72624-02-3
4-heptylphenol	1987-50-4
4-(3-ethylpentan-3-yl)phenol	37872-24-5
4-(2-methylhexan-2-yl)phenol	30784-31-7
4-(3,3-dimethylpentan-2-yl)phenol	911371-06-7
4-(3-methylhexan-2-yl)phenol	854904-93-1
4-(4,4-dimethylpentan-2-yl)phenol	911371-07-8
4-(4-methylhexan-2-yl)phenol	71945-81-8
4-(5-methylhexan-2-yl)phenol	857629-71-1
4-(2,2-dimethylpentan-3-yl)phenol	861010-65-3
4-(3-methylhexan-3-yl)phenol	30784-32-8
4-(heptan-3-yl)phenol	6465-74-3
4-(heptan-2-yl)phenol	6863-24-7
4-(heptan-4-yl)phenol	6465-71-0
4-(3-ethylpentyl)phenol	911370-98-4
4-(3-methylhexyl)phenol	102570-52-5

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4-(4-methylhexyl)phenol	1139800-98-8
4-(5-methylhexyl)phenol	100532-36-3
4-(2,4-dimethylpentan-3-yl)phenol	1824346-00-0
Phenol, 4-tert-heptyl-	288864-02-8
Phenol, 4-(1-ethyl-1,2-dimethylpropyl)-	30784-27-1
4-(2,3-dimethylpentan-2-yl)phenol	861011-60-1
4-(2,4-dimethylpentan-2-yl)phenol	33104-11-9
4-(2,3,3-trimethylbutan-2-yl)phenol	72861-06-4
4-(5-methylhexan-3-yl)phenol	854904-92-0
Nonylphenol, branched, ethoxylated	68412-54-4
20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	27942-27-4
26-(4-Nonylphenoxy)-3,6,9,12,15,18,21,24- octaoxahexacosan -1-ol	14409-72-4
2-{2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy} ethanol	1119449-38-5
2-(4-nonylphenoxy)ethanol	104-35-8
20-(nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	27177-03-3
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol	42173-90-0
44-(nonylphenoxy)-3,6,9,12,15,18,21,24,27,30,33,36,39,42-tetradecaoxatetracontanol	57321-10-5
4-t-Nonylphenol-diethoxylate	156609-10-8
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)-	20636-48-0
14-(nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol	26264-02-8
2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol	1119449-37-4
4-Nonylphenol, branched, ethoxylated	127087-87-0
17-(4-nonylphenoxy)-3,6,9,12,15-pentaoxaheptadecan-1-ol	34166-38-6
4-Nonylphenol, branched, ethoxylated	127087-87-0
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)-, branched	91648-64-5
2-(isononylphenoxy)ethanol	85005-55-6
20-(isononylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	65455-69-8
3,6,9,12,15-Pentaoxaheptadecan-1-ol, 17-(nonylphenoxy)-	27177-01-1
3,6,9,12,15,18,21,24,27-Nonaoxanonacosan-1-ol, 29-(isononylphenoxy)-	65455-72-3
4-(1-Ethyl-1,4-dimethylpentyl)phenol	142731-63-3
4-(3-ethylheptan-2-yl)phenol	186825-39-8

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4-(1,1,5-Trimethylhexyl)phenol	521947-27-3
2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethanol	2315-61-9
20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol	2497-59-8
Poly(oxy-1,2-ethanediyl), α -[(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy-	9036-19-5
2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethanol	2315-67-5
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
Cholecalciferol	67-97-0
Mancozeb	8018-01-7
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	9036-19-5
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	2497-59-8
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	2315-67-5
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	2315-61-9
4-heptylphenol, branched and linear (4-HPbl)	1987-50-4
4-heptylphenol, branched and linear (4-HPbl)	72624-02-3
4-heptylphenol, branched and linear (4-HPbl)	72861-06-4
4-heptylphenol, branched and linear (4-HPbl)	33104-11-9
4-heptylphenol, branched and linear (4-HPbl)	37872-24-5
4-heptylphenol, branched and linear (4-HPbl)	30784-31-7
4-heptylphenol, branched and linear (4-HPbl)	911371-06-7
4-heptylphenol, branched and linear (4-HPbl)	854904-93-1
4-heptylphenol, branched and linear (4-HPbl)	911371-07-8
4-heptylphenol, branched and linear (4-HPbl)	71945-81-8
4-heptylphenol, branched and linear (4-HPbl)	857629-71-1
4-heptylphenol, branched and linear (4-HPbl)	861010-65-3
4-heptylphenol, branched and linear (4-HPbl)	854904-92-0
4-heptylphenol, branched and linear (4-HPbl)	6465-74-3
4-heptylphenol, branched and linear (4-HPbl)	6863-24-7
4-heptylphenol, branched and linear (4-HPbl)	6465-71-0
4-heptylphenol, branched and linear (4-HPbl)	911370-98-4
4-heptylphenol, branched and linear (4-HPbl)	102570-52-5
4-heptylphenol, branched and linear (4-HPbl)	1139800-98-8

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4-heptylphenol, branched and linear (4-HPbl)	100532-36-3
4-heptylphenol, branched and linear (4-HPbl)	861011-60-1
4-heptylphenol, branched and linear (4-HPbl)	30784-32-8
4-heptylphenol, branched and linear (4-HPbl)	30784-27-1
4-heptylphenol, branched and linear (4-HPbl)	1824346-00-0
4-heptylphenol, branched and linear (4-HPbl)	288864-02-8
4-Nonylphenol, branched and linear	142731-63-3
4-Nonylphenol, branched and linear	186825-39-8
4-Nonylphenol, branched and linear	521947-27-3
4-Nonylphenol ethoxylate, branched and linear	68412-54-4
4-Nonylphenol ethoxylate, branched and linear	27942-27-4
4-Nonylphenol ethoxylate, branched and linear	68412-54-4
4-Nonylphenol ethoxylate, branched and linear	14409-72-4
4-Nonylphenol ethoxylate, branched and linear	127087-87-0
4-Nonylphenol ethoxylate, branched and linear	26264-02-8
4-Nonylphenol ethoxylate, branched and linear	127087-87-0
4-Nonylphenol ethoxylate, branched and linear	1119449-37-4
4-Nonylphenol ethoxylate, branched and linear	1119449-38-5
4-Nonylphenol ethoxylate, branched and linear	34166-38-6
4-Nonylphenol ethoxylate, branched and linear	20636-48-0
4-Nonylphenol ethoxylate, branched and linear	156609-10-8
4-Nonylphenol ethoxylate, branched and linear	104-35-8
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, trendy and linear (RP-HP) [with ≥ 0.1 % w/w 4-heptylphenol, branched and linear]	1471311-26-8
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, trendy and linear (RP-HP) [with ≥ 0.1 % w/w 4-heptylphenol, branched and linear]	93925-00-9

表67中鏈氯化石蠟(C14~17)(MCCP)

Material	CAS Numbers
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2,4,6,10,12,14-Hexachloropentadecane	85535-85-9
Polyethylene, chlorinated	64754-90-1
Alkanes, C14-16, chloro	1372804-76-6

表68短鏈氯化石蠟(C10~C13)(SCCP)

Material	CAS Numbers
Chlorinated Paraffin (13%)	8029-39-8
Chloroalkanes C10-13	85535-84-8
Cereclor ; Chlorcosane	63449-39-8
2,3,4,6,7,8-Hexachlorodecane , Alkanes, C10-12, chloro	108171-26-2
Alkanes, C12-13, chloro	71011-12-6
Tetradecane, chloro derivs.	198840-65-2
Tetradecane	629-59-4
2,4,5,8,11,12,14,17-Octachloroicosane	61788-76-9

表69 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 [任何 [和 [或者其任意組合的單獨異構物或其任何組合

Material	CAS Numbers
1,3-Dioxane, 2-[(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)-	117933-89-8
1,3-Dioxane, 2-[(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)-	186309-28-4
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-	676367-05-8
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-rel-	343934-04-3

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1,3-Dioxane, 2 -[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5 -(1-methylpropyl)-, trans-	676367-09-2
1,3-Dioxane, 2 -[(1R,2R)- 2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5 -(1-methylpropyl)-, trans-rel-	343934-05-4
1,3-Dioxane, 2 -[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-	676367-04-7
1,3-Dioxane, 2 -[(1R, 2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-	676367-08-1
1,3-Dioxane, 2 -[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5 -(1-methylpropyl)-, cis-	676367-03-6
1,3-Dioxane, 2 -[(1S, 2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-	676367-07-0
1,3-Dioxane, 2 -[(1S, 2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-	676367-02-5
1,3-Dioxane, 2-[(1S, 2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5 -(1-methylpropyl)-, trans-	676367-06-9

7. 參考文件 References :

7.1 電器及電子設備危害物質限制指令(Directive 2011/65/EU) : HECGP-002

On the restriction of the use of certain hazardous substances in electrical and electronic equipment (Directive 2011/65/EU) : HECGP-002

7.2 歐盟包裝材指令 (Directive 2013/2/EU) : HECGP-007

EU Packaging Directive (Directive 2013/2/EU) : HECGP-007



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7.3 化學品註冊、評估、許可、限制法規 (EC 1907/2006) : HECGP-006

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE
COUNCIL (REACH EC 1907/2006) : HECGP-006

7.4 歐盟全氟辛烷磺酸禁用指令(PFOS) (2006/122/EC) : HECGP-008

EU PFOS Directive (2006/122/EC) : HECGP-008

7.5 IEC 61249-2-21 :2003 鹵素含量的測定

IEC 61249-2-21 :2003 Characterization - Halogen content determination methods

7.6 歐盟持久性有機污染物法規(簡稱 POPs 法規) : HECGP-077

The EU Persistent organic pollutants Regulation, abbreviated as pops, includes extended amendments
to the regulation.

7.7 日本化審法第一類特定化學物質 class I specified chemical substance in Japan Chemical Substances
Control Law (Japan CSCL)

8. 表單 Forms :

8.1 不使用(禁/限用物質)保證函 : F-NP04-001

Certificate of the Non-Use Prohibited and Restricted Substance : F-NP04-001

8.2 環境管理物質部件展開表 : F-NP04-A001-001

The Parts List of Environmental Management Substances : F-NP04-A001-001

8.3 REACH 高度關注物質清單調查 : F-NP04-A001-002

Containing/Not-containing REACH Substances of High Concern(SVHC) : F-NP04-A001-002

8.4 無衝突金屬宣告書 : F-NP04-A001-004

Declaration of Metal Conflict-Free : F-NP04-A001-004

8.5 RoHS 自我宣告書(客戶版) : F-NP04-A001-005

RoHS Declaration of Conformity" (customer) : F-NP04-A001-005

8.6 恆顥文件更版確認回函 : F-NP04-A001-006

Heng Hao file revision confirmation letter : F-NP04-A001-006

B 級資料