

# 列管毒性化學物質及其運作管理事項公告事項第一項及第二項附表二、第三項附表三、第四項附表四 修正草案總說明

列管毒性化學物質及其運作管理事項（以下簡稱本公告）於九十六年公告訂定，歷經十五次修正，最近一次修正為一百十三年四月二十四日。為配合聯合國持久性有機污染物斯德哥爾摩公約管理趨勢，增列全氟辛烷磺酸鹽類與相關化合物及全氟辛酸鹽類與相關化合物為毒性化學物質，訂定管制濃度及分級運作量，並應遵循調整得使用用途適用範圍。並因應歐盟限制壬基酚（壬酚）及壬基酚聚乙氧基醇應用於可能造成環境危害風險相關用途，包括工業及機構用清潔劑、紡織品和皮革製品處理、農業用乳化劑、金屬加工、紙漿和紙張之製造等，爰配合修正壬基酚及壬基酚聚乙氧基醇禁止運作事項及得使用用途。其修正要點如下：

- 一、修正壬基酚及壬基酚聚乙氧基醇毒性分類及增列化學文摘社登記號碼，與新增全氟辛烷磺酸鹽類與相關化合物及全氟辛酸鹽類與相關化合物為毒性化學物質，並調整毒性分類（修正公告事項第一項附表一）
- 二、增列壬基酚及壬基酚聚乙氧基醇禁止運作事項（修正公告事項第二項附表二）
- 三、修正壬基酚及壬基酚聚乙氧基醇，與增列全氟辛烷磺酸鹽類與相關化合物及全氟辛酸鹽類與相關化合物得使用用途（修正公告事項第三項附表三）
- 四、增列壬基酚及壬基酚聚乙氧基醇、全氟辛烷磺酸及其鹽類與相關化合物、全氟辛酸及其鹽類與相關化合物之應於規定期限完成相關事項一覽表（修正公告事項第四項附表四）

# 列管毒性化學物質及其運作管理事項公告事項第一項及第二項附表二、第三項附表三、第四項附表四 修正草案公告對照表

| 修正公告                                                                                | 現行公告                                                                            | 說明                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 主旨：修正「列管毒性化學物質及其運作管理事項」公告事項第一項及第二項附表二、第三項附表三、第四項附表四，並自即日生效。                         | 主旨：修正「列管毒性化學物質及其運作管理事項」公告事項第一項及第二項附表二、第三項附表三、第四項附表四，並自即日生效。                     | 公告名稱及生效日期。                                                                                                                                                                       |
| 依據：毒性及關注化學物質管理法第八條、第十一條及第四十四條第四項。                                                   | 依據：毒性及關注化學物質管理法第八條、第十一條及第四十四條第四項。                                               | 法源依據未修正。                                                                                                                                                                         |
| 公告事項：<br>一、公告毒性化學物質及其管制濃度與分級運作量如附表一及附件一至附件三。本公告所稱毒性化學物質指附表一所列化學物質重量百分比含量達管制濃度以上之物質。 | 公告事項：<br>一、公告毒性化學物質及其管制濃度與分級運作量如附表一及附件一。本公告所稱毒性化學物質指附表一所列化學物質重量百分比含量達管制濃度以上之物質。 | 為使本公告列管範疇一致，配合斯德哥爾摩公約管制全氟烷基類化合物，增列全氟辛烷磺酸鹽類與相關化合物為第一、二類毒性化學物質，以及全氟辛酸鹽類與相關化合物列為第一類毒性化學物質，且管制濃度為全濃度，爰修正附表一，並為利業者逐項辨識及確認，配合新增附件二正面表列八種全氟辛烷磺酸及其鹽類與相關化合物，及附件三正面表列三百五十三種全氟辛酸及其鹽類與相關化合物。 |

公告事項第一項附表一修正草案對照表

| 修正規定                                                                                                                                                                                                                                                      |                                |                                    |                                       |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                      |                                         |                                                     | 現行規定                                                                                                                                                                                                                                                      |                                |                                    |                                       |                                                                                  |                         |                                                        |                                                      |                                         |                                                 | 說明                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------|---------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------|---------------------------------------|----------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------|------------------------------------------------------|-----------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 附表一 公告毒性化學物質及其管制濃度與分級運作量一覽表                                                                                                                                                                                                                               |                                |                                    |                                       |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                      |                                         |                                                     | 附表一 公告毒性化學物質及其管制濃度與分級運作量一覽表                                                                                                                                                                                                                               |                                |                                    |                                       |                                                                                  |                         |                                                        |                                                      |                                         |                                                 | 一、參考歐盟化學品登錄、評估、授權及限制規章 (Regulation of Registration, Evaluation, Authorization and Restriction of Chemicals, REACH) 附錄十七項目四十六 (Annex XVII, Entry 46)，修正壬基酚（壬酚）及壬基酚聚乙氧基醇管制濃度為0.1%。<br>二、因應毒理資料更新及本法第四類毒性化學物質定義調整，考量壬基酚及壬基酚聚乙氧基醇內分泌干擾素性質明確，調整壬基酚及壬基酚聚乙氧基醇毒性分類。<br>三、參考歐盟 REACH 及美國毒性物質管理法 (Toxic Substances Control Act, TSCA) 壬基酚及壬基酚聚乙氧基醇化學文摘社登記號碼認列清單，分別新增壬基酚及壬基酚聚乙氧基醇十二個及二十八個化學文摘社登記號碼，以促進物質辨識。<br>四、因應斯德哥爾摩公約 (Stockholm Convention)，考量此類全氟烷基化合物具不易分解及生物濃縮特性，為持久性有機污染物，並與其他已納管全氟烷基化合物具類似毒理特性及應用用途，將增列五種全氟辛烷磺酸鹽類與相關化合物，與原列管全氟辛 |
| 列管編號 <sup>註1</sup><br>Listed No.                                                                                                                                                                                                                          | 序號 <sup>註1</sup><br>Series No. | 中文名稱 <sup>註2</sup><br>Chinese Name | 英文名稱 <sup>註2</sup><br>English Name    | 分子式 <sup>註2</sup><br>Chemical Formula                                            | 化學文摘社登記號碼<br>CAS No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 管制濃度 <sup>註3</sup><br>control concentration standard % | 分級運作量 <sup>註4</sup><br>graded handling quantity (公斤) | 毒性分類 <sup>註5</sup><br>Toxicity Classify | 公告日期                                                | 列管編號 <sup>註1</sup><br>Listed No.                                                                                                                                                                                                                          | 序號 <sup>註1</sup><br>Series No. | 中文名稱 <sup>註2</sup><br>Chinese Name | 英文名稱 <sup>註2</sup><br>English Name    | 分子式 <sup>註2</sup><br>Chemical Formula                                            | 化學文摘社登記號碼<br>CAS No.    | 管制濃度 <sup>註3</sup><br>control concentration standard % | 分級運作量 <sup>註4</sup><br>graded handling quantity (公斤) | 毒性分類 <sup>註5</sup><br>Toxicity Classify | 公告日期                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 165                                                                                                                                                                                                                                                       | 01                             | 壬基酚（壬酚）                            | Nonylphenol                           | C <sub>6</sub> H <sub>4</sub> (OH)C <sub>9</sub> H <sub>9</sub>                  | 25154-52-3<br>84852-15-3<br><u>104-40-5</u><br><u>11066-49-2</u><br><u>142731-63-3</u><br><u>17404-66-9</u><br><u>186825-36-5</u><br><u>186825-39-8</u><br><u>26543-97-5</u><br><u>30784-30-6</u><br><u>521947-27-3</u><br><u>52427-13-1</u><br><u>90481-04-2</u><br><u>91672-41-2</u>                                                                                                                                                                                                                                         | <u>0.1</u>                                             | 50                                                   | 1,3,4                                   | 96.12.17<br>98.07.31<br>104.12.31<br><u>114.0.0</u> | 165                                                                                                                                                                                                                                                       | 02                             | 壬基酚聚乙氧基醇                           | Nonylphenol polyethylene glycol ether | (C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>15</sub> H <sub>24</sub> O | 9016-45-9<br>26027-38-3 | 5                                                      | 50                                                   | 1                                       | 96.12.17<br>98.07.31<br>104.12.31               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 165                                                                                                                                                                                                                                                       | 02                             | 壬基酚聚乙氧基醇                           | Nonylphenol polyethylene glycol ether | (C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>15</sub> H <sub>24</sub> O | 9016-45-9<br>26027-38-3<br><u>104-35-8</u><br><u>1119449-37-4</u><br><u>1119449-38-5</u><br><u>127087-87-0</u><br><u>14409-72-4</u><br><u>156609-10-8</u><br><u>20427-84-3</u><br><u>20636-48-0</u><br><u>26264-02-8</u><br><u>26571-11-9</u><br><u>27176-93-8</u><br><u>27177-01-1</u><br><u>27177-03-3</u><br><u>27177-05-5</u><br><u>27177-08-8</u><br><u>27942-27-4</u><br><u>27986-36-3</u><br><u>34166-38-6</u><br><u>37205-87-1</u><br><u>42173-90-0</u><br><u>51938-25-1</u><br><u>57321-10-5</u><br><u>65455-69-8</u> | <u>0.1</u>                                             | 50                                                   | 1,4                                     | 96.12.17<br>98.07.31<br>104.12.31<br><u>114.0.0</u> | 169                                                                                                                                                                                                                                                       | 01                             | 全氟辛烷磺酸                             | Perfluorooctanesulfonic acid          | C <sub>8</sub> HF <sub>17</sub> O <sub>3</sub> S                                 | 1763-23-1               | 全濃度 <sup>註8</sup>                                      | 50                                                   | 1,2                                     | 99.12.24<br>107.06.28<br>109.09.08<br>113.04.24 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                           |                                |                                    |                                       |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                      |                                         |                                                     | 169                                                                                                                                                                                                                                                       | 02                             | 全氟辛烷磺酸鋰鹽                           | Lithium perfluorooctanesulfonate      | C <sub>8</sub> HF <sub>17</sub> O <sub>3</sub> S Li                              | 29457-72-5              | 全濃度 <sup>註8</sup>                                      | 50                                                   | 1,2                                     | 99.12.24<br>109.09.08<br>113.04.24              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                           |                                |                                    |                                       |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                      |                                         |                                                     | 169                                                                                                                                                                                                                                                       | 03                             | 全氟辛烷磺醯氟                            | Perfluorooctanesulfonyl fluoride      | C <sub>8</sub> F <sub>18</sub> O <sub>2</sub> S                                  | 307-35-7                | 全濃度 <sup>註8</sup>                                      | 50                                                   | 1                                       | 99.12.24<br>109.09.08<br>113.04.24              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                           |                                |                                    |                                       |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                      |                                         |                                                     | 169                                                                                                                                                                                                                                                       | 04                             | 全氟辛酸                               | Perfluorooctanoic acid (PFOA)         | C <sub>8</sub> HF <sub>15</sub> O <sub>2</sub>                                   | 335-67-1                | 全濃度 <sup>註8</sup>                                      | 50                                                   | 1                                       | 107.06.28<br>109.09.08<br>113.04.24             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 註：1.本表中毒理特性類似者，歸類為同一列管編號；一列管編號下之不同序號物質，計為不同種之毒性化學物質。<br>2.本表以化學文摘社登記號碼、中文名稱、英文名稱及分子式綜合判斷。<br>3.管制濃度：<br>例1：「苯」表示含苯70%以上（含70%）者。<br>例2：「氟化鈉」表示含氟離子達1%以上（含1%）者。<br>例3：「多氯聯苯」表示含多氯聯苯0.1%（1,000 ppm）以上（含0.1%）者。<br>4.分級運作量：鍍槽之鍍液、金屬表面處理槽之表面處理液及乾洗機器內循環使用中之四氯乙 |                                |                                    |                                       |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                      |                                         |                                                     | 註：1.本表中毒理特性類似者，歸類為同一列管編號；一列管編號下之不同序號物質，計為不同種之毒性化學物質。<br>2.本表以化學文摘社登記號碼、中文名稱、英文名稱及分子式綜合判斷。<br>3.管制濃度：<br>例1：「苯」表示含苯70%以上（含70%）者。<br>例2：「氟化鈉」表示含氟離子達1%以上（含1%）者。<br>例3：「多氯聯苯」表示含多氯聯苯0.1%（1,000 ppm）以上（含0.1%）者。<br>4.分級運作量：鍍槽之鍍液、金屬表面處理槽之表面處理液及乾洗機器內循環使用中之四氯乙 |                                |                                    |                                       |                                                                                  |                         |                                                        |                                                      |                                         |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



|                                                                  |  |  |
|------------------------------------------------------------------|--|--|
| (4)全氟己烷磺酸及其鹽類個別未超過 0.025 mg/kg。<br>(5)全氟己烷磺酸相關化合物總濃度未超過 1 mg/kg。 |  |  |
|------------------------------------------------------------------|--|--|

公告事項第一項附件二修正草案對照表

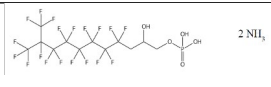
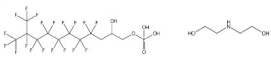
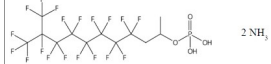
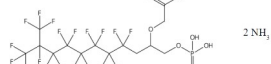
| 修正規定                 |                                                   |                          |                           | 現行規定 | 說明                                                                                                                                                                                                                                                             |
|----------------------|---------------------------------------------------|--------------------------|---------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 附件二 全氟辛烷磺酸及其鹽類與相關化合物 |                                                   |                          |                           |      | <p>一、<u>本附件新增。</u></p> <p>二、為接軌斯德哥爾摩公約管制範疇，參考其公告之指示清單內容，增列附件二，以正面表列八種全氟辛烷磺酸及其鹽類與相關化合物。</p> <p>三、依循斯德哥爾摩公約全氟辛烷磺酸及其鹽類與相關化合物管制清單係以登載化學物質英文名稱及化學文摘社登記號碼之方式呈現，爰規定以英文名稱及化學文摘社登記號碼綜合判斷。</p> <p>四、本附件各項化學物質皆屬全氟辛烷磺酸及其鹽類與相關化合物之管制範疇，其管制濃度、分級運作量及得使用用途等依附表一及附表三規定辦理。</p> |
| 項次<br>Item           | 英文名稱<br>English Name                              | 化學文摘社<br>登記號碼<br>CAS No. | 結構式<br>structural formula |      |                                                                                                                                                                                                                                                                |
| 1                    | Perfluorooctane sulfonic acid                     | 1763-23-1                |                           |      |                                                                                                                                                                                                                                                                |
| 2                    | Potassium perfluorooctane sulfonate               | 2795-39-3                |                           |      |                                                                                                                                                                                                                                                                |
| 3                    | Lithium perfluorooctane sulfonate                 | 29457-72-5               |                           |      |                                                                                                                                                                                                                                                                |
| 4                    | Ammonium perfluorooctane sulfonate                | 29081-56-9               |                           |      |                                                                                                                                                                                                                                                                |
| 5                    | Diethanolammonium perfluorooctane sulfonate       | 70225-14-8               |                           |      |                                                                                                                                                                                                                                                                |
| 6                    | Tetraethylammonium perfluorooctane sulfonate      | 56773-42-3               |                           |      |                                                                                                                                                                                                                                                                |
| 7                    | Didecyldimethylammonium perfluorooctane sulfonate | 251099-16-8              |                           |      |                                                                                                                                                                                                                                                                |
| 8                    | Perfluorooctane sulfonyl fluoride                 | 307-35-7                 |                           |      |                                                                                                                                                                                                                                                                |

公告事項第一項附件三修正草案對照表

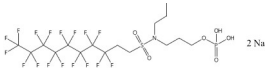
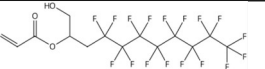
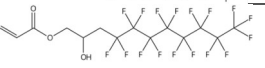
| 修正規定               |                                                                                                                                |                          |                           | 現行規定 | 說明                                                                                                                                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 附件三 全氟辛酸及其鹽類與相關化合物 |                                                                                                                                |                          |                           |      | <p>一、本附件新增。</p> <p>二、為接軌斯德哥爾摩公約管制範疇，參考其公告之指示清單內容，增列附件三，以正面表列三百五十三種全氟辛酸及其鹽類與相關化合物。</p> <p>三、依循斯德哥爾摩公約全氟辛酸及其鹽類與相關化合物管制清單係以登載化學物質英文名稱、化學文摘社登記號碼及結構式之方式呈現，爰規定以英文名稱、化學文摘社登記號碼、結構式綜合判斷。</p> <p>四、本附件各項化學物質皆屬全氟辛酸及其鹽類與相關化合物之管制範疇，其管制濃度、分級運作量及得使用用途等依附表一及附表三規定辦理。</p> |
| 項次<br>Item         | 英文名稱<br>English Name                                                                                                           | 化學文摘社<br>登記號碼<br>CAS No. | 結構式<br>structural formula |      |                                                                                                                                                                                                                                                               |
| 1                  | Perfluorooctanoic acid                                                                                                         | 335-67-1                 |                           |      |                                                                                                                                                                                                                                                               |
| 2                  | Perfluorooctanoate (conjugate base of the free acid)<br>Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, ion(1-) | 45285-51-6               |                           |      |                                                                                                                                                                                                                                                               |
| 3                  | Branched perfluorooctanoic acid                                                                                                | 90480-55-0               |                           |      |                                                                                                                                                                                                                                                               |
| 4                  | Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-                                                          | 1882109-81-0             |                           |      |                                                                                                                                                                                                                                                               |
| 5                  | Hexanoic acid, 2,3,3,4,4,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-                                                          | 1882109-80-9             |                           |      |                                                                                                                                                                                                                                                               |
| 6                  | Hexanoic acid, 2,2,3,3,4,5,5,6,6,6-decafluoro-4-(1,1,2,2,2-pentafluoroethyl)-                                                  | 1882109-79-6             |                           |      |                                                                                                                                                                                                                                                               |
| 7                  | Hexanoic acid, 2,2,3,4,4,5,5,6,6,6-decafluoro-3-(1,1,2,2,2-pentafluoroethyl)-                                                  | 1882109-78-5             |                           |      |                                                                                                                                                                                                                                                               |
| 8                  | Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-                                                | 1882109-77-4             |                           |      |                                                                                                                                                                                                                                                               |
| 9                  | Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-                                   | 1882109-76-3             |                           |      |                                                                                                                                                                                                                                                               |
| 10                 | Pentanoic acid, 2,2,3,5,5,5-hexafluoro-3,4,4-tris(trifluoromethyl)-                                                            | 1882109-75-2             |                           |      |                                                                                                                                                                                                                                                               |
| 11                 | Pentanoic acid, 2,2,4,5,5,5-hexafluoro-3,3,4-tris(trifluoromethyl)-                                                            | 1882109-74-1             |                           |      |                                                                                                                                                                                                                                                               |
| 12                 | Pentanoic acid, 2,3,3,5,5,5-hexafluoro-2,4,4-tris(trifluoromethyl)-                                                            | 1882109-73-0             |                           |      |                                                                                                                                                                                                                                                               |
| 13                 | Pentanoic acid, 2,3,4,5,5,5-hexafluoro-2,3,4-tris(trifluoromethyl)-                                                            | 1882109-72-9             |                           |      |                                                                                                                                                                                                                                                               |
| 14                 | Pentanoic acid, 2,4,4,5,5,5-hexafluoro-2,3,3-tris(trifluoromethyl)-                                                            | 1882109-71-8             |                           |      |                                                                                                                                                                                                                                                               |
| 15                 | Pentanoic acid, 3,3,4,5,5,5-hexafluoro-2,2,4-tris(trifluoromethyl)-                                                            | 1882109-70-7             |                           |      |                                                                                                                                                                                                                                                               |
| 16                 | Pentanoic acid, 2,2,3,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-                                  | 1882109-68-3             |                           |      |                                                                                                                                                                                                                                                               |
| 17                 | Pentanoic acid, 2,2,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-                                  | 1882109-67-2             |                           |      |                                                                                                                                                                                                                                                               |
| 18                 | Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-                                  | 1882109-66-1             |                           |      |                                                                                                                                                                                                                                                               |
| 19                 | Pentanoic acid, 2,3,3,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-                                  | 1882109-65-0             |                           |      |                                                                                                                                                                                                                                                               |
| 20                 | Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-                                  | 1882109-64-9             |                           |      |                                                                                                                                                                                                                                                               |
| 21                 | Pentanoic acid, 3,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-                                  | 1882109-63-8             |                           |      |                                                                                                                                                                                                                                                               |
| 22                 | Pentanoic acid, 3,4,4,5,5,5-hexafluoro-2,2,3-tris(trifluoromethyl)-                                                            | 1882109-69-4             |                           |      |                                                                                                                                                                                                                                                               |
| 23                 | Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-                                                              | 1882109-62-7             |                           |      |                                                                                                                                                                                                                                                               |
| 24                 | Butanoic acid, 2,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3-(trifluoromethyl)-                     | 1882109-61-6             |                           |      |                                                                                                                                                                                                                                                               |
| 25                 | Butanoic acid, 2,3,3,4,4,4-hexafluoro-2-[2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl]-                                       | 1882109-60-5             |                           |      |                                                                                                                                                                                                                                                               |
| 26                 | Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)-                     | 1882109-59-2             |                           |      |                                                                                                                                                                                                                                                               |
| 27                 | Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-                                                      | 1882109-58-1             |                           |      |                                                                                                                                                                                                                                                               |
| 28                 | Hexanoic acid, 2,2,4,4,5,5,6,6,6-nonafluoro-3,3-bis(trifluoromethyl)-                                                          | 1812247-20-3             |                           |      |                                                                                                                                                                                                                                                               |
| 29                 | Hexanoic acid, 2,3,3,4,5,5,6,6,6-nonafluoro-2,4-bis(trifluoromethyl)-                                                          | 1812247-19-0             |                           |      |                                                                                                                                                                                                                                                               |

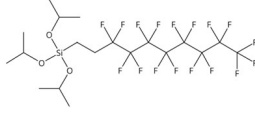
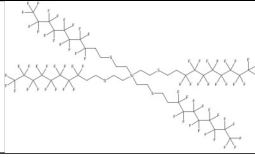
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| 30 | Hexanoic acid, 2,3,4,4,5,5,6,6,6-nonafluoro-2,3-bis(trifluoromethyl)-                              | 1812247-18-9 |  |
| 31 | Hexanoic acid, 3,3,4,4,5,5,6,6,6-nonafluoro-2,2-bis(trifluoromethyl)-                              | 1812247-17-8 |  |
| 32 | Hexanoic acid, 2,2,3,3,5,5,6,6,6-nonafluoro-4,4-bis(trifluoromethyl)-                              | 1192593-79-5 |  |
| 33 | Hexanoic acid, 2,2,3,3,4,5,6,6,6-nonafluoro-4,5-bis(trifluoromethyl)-                              | 1144512-36-6 |  |
| 34 | Hexanoic acid, 2,2,3,4,4,5,6,6,6-nonafluoro-3,5-bis(trifluoromethyl)-                              | 1144512-35-5 |  |
| 35 | Hexanoic acid, 2,2,3,3,4,4,6,6,6-nonafluoro-5,5-bis(trifluoromethyl)-                              | 1144512-34-4 |  |
| 36 | Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7,7-dodecafluoro-4-(trifluoromethyl)-                          | 1144512-18-4 |  |
| 37 | Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7,7-dodecafluoro-5-(trifluoromethyl)-                          | 909009-42-3  |  |
| 38 | Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-                          | 705240-04-6  |  |
| 39 | Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-                          | 207678-51-1  |  |
| 40 | Isooctanoic acid, pentadecafluoro-                                                                 | 123116-17-6  |  |
| 41 | Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-                      | 35605-76-6   |  |
| 42 | Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-                          | 15166-06-0   |  |
| 43 | Octanoic acid, pentadecafluoro-, branched, ammonium salt                                           | 90480-56-1   |  |
| 44 | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, ammonium salt (1:1)                 | 3825-26-1    |  |
| 45 | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, sodium salt (1:1)                   | 335-95-5     |  |
| 46 | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt (1:1)                | 2395-00-8    |  |
| 47 | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, lithium salt (1:1)                  | 17125-58-5   |  |
| 48 | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, silver(1+) salt (1:1)               | 335-93-3     |  |
| 49 | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) salt (3:1)             | 68141-02-6   |  |
| 50 | Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)        | 98241-25-9   |  |
| 51 | Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1) | 13058-06-5   |  |
| 52 | Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1)   | 1195164-59-0 |  |
| 53 | Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)     | 19742-57-5   |  |
| 54 | Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)         | 61436-04-2   |  |
| 55 | Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)    | 29457-73-6   |  |
| 56 | Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1)       | 18017-22-6   |  |
| 57 | Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x)     | 15739-82-9   |  |
| 58 | Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1)     | 15715-47-6   |  |
| 59 | Fatty acids, C <sub>7-13</sub> , perfluoro                                                         | 68333-92-6   |  |
| 60 | Ethylamine salts of C <sub>7</sub> -C <sub>13</sub> perfluorinated fatty acids                     | 69278-80-4   |  |
| 61 | Fatty acids, C <sub>7-19</sub> , perfluoro                                                         | 91032-01-8   |  |
| 62 | Fatty acids, C <sub>7-13</sub> , perfluoro, ammonium salts                                         | 72968-38-8   |  |
| 63 | Fatty acids, C <sub>6-18</sub> , perfluoro, ammonium salts                                         | 72623-77-9   |  |
| 64 | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, methyl                              | 376-27-2     |  |

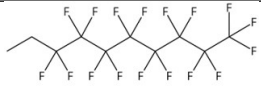
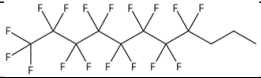
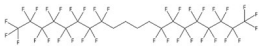
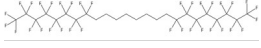
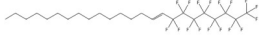
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|    | ester                                                                                                                         |             |  |
| 65 | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, ethyl ester                                                    | 3108-24-5   |  |
| 66 | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, 1,1'-anhydride                                                 | 33496-48-9  |  |
| 67 | Phosphinic acid, bis(perfluoro-C <sub>6-12</sub> -alkyl) derivs.                                                              | 68412-69-1  |  |
| 68 | Phosphinic acid, bis(perfluoro-C <sub>6-12</sub> -alkyl) derivs., aluminum salts                                              | 93062-53-4  |  |
| 69 | Bis(perfluorooctyl)phosphinic acid                                                                                            | 40143-79-1  |  |
| 70 | Phosphinic acid, P-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)-P-(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)- | 610800-34-5 |  |
| 71 | Octanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-                                                             | 335-66-0    |  |
| 72 | Perfluorooctyl iodide                                                                                                         | 507-63-1    |  |
| 73 | Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosafuoro-11-iodo-                                             | 307-50-6    |  |
| 74 | Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-12-iodo-                                     | 307-60-8    |  |
| 75 | Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-14-iodo-                       | 307-63-1    |  |
| 76 | Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-hentriacontafuoro-15-iodo-             | 335-79-5    |  |
| 77 | Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacosafuoro-13-iodo-                              | 376-04-5    |  |
| 78 | Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-10-iodo-                                                   | 423-62-1    |  |
| 79 | Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-9-iodo-                                                          | 558-97-4    |  |
| 80 | Decane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicosafuoro-10-iodo-2-(trifluoromethyl)-                                    | 677-93-0    |  |
| 81 | Dodecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)-                   | 3248-61-1   |  |
| 82 | Tetradecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-octacosafuoro-14-iodo-2-(trifluoromethyl)-     | 3248-63-3   |  |
| 83 | Alkyl iodides, C <sub>6-18</sub> , perfluoro                                                                                  | 90622-71-2  |  |
| 84 | Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-                                                            | 2043-53-0   |  |
| 85 | Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10-heneicosafuoro-12-iodo-                                                | 2043-54-1   |  |
| 86 | Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,11,11,12,12-pentacosafuoro-14-iodo-                                 | 30046-31-2  |  |
| 87 | Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-16-iodo-                        | 65510-55-6  |  |
| 88 | Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11-iodo-                                                       | 65510-56-7  |  |
| 89 | Alkyl iodides, C <sub>4-20</sub> , γ-ω-perfluoro                                                                              | 68188-12-5  |  |
| 90 | Alkyl iodides, C <sub>10-12</sub> , γ-ω-perfluoro                                                                             | 68390-33-0  |  |
| 91 | 1-Decene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-                                                               | 21652-58-4  |  |
| 92 | 1-Dodecene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-                                                  | 30389-25-4  |  |
| 93 | 1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuoro-                        | 60699-51-6  |  |
| 94 | 1-Pentadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-heptacosafuoro-                            | 176676-70-3 |  |

|     |                                                                                                                                                                  |             |                                                                                       |  |
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| 95  | 1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuoro-                                                                     | 39239-77-5  |                                                                                       |  |
| 96  | 1-Tridecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafuoro-                                                                               | 1545-59-1   |                                                                                       |  |
| 97  | 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-                                                                                    | 865-86-1    |                                                                                       |  |
| 98  | 1-Undecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoro-                                                                                          | 87017-97-8  |                                                                                       |  |
| 99  | 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-                                                                                                 | 678-39-7    |                                                                                       |  |
| 100 | 2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-eicosafuoro-                                                                                   | 70887-94-4  |                                                                                       |  |
| 101 | Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-                                                                                | 53826-13-4  |                                                                                       |  |
| 102 | Undecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoro-                                                                                      | 191852-87-6 |                                                                                       |  |
| 103 | 2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro-                                                                                              | 70887-84-2  |                                                                                       |  |
| 104 | Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-                                                                                             | 27854-31-5  |                                                                                       |  |
| 105 | 1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-hexa decafluoro-10-(trifluoromethyl)-, 1-(dihydrogen phosphate)                                         | 54009-73-3  |                                                                                       |  |
| 106 | 1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafuoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate)                                   | 63295-27-2  |                                                                                       |  |
| 107 | 1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)-, 1-(dihydrogen phosphate)                  | 63295-28-3  |                                                                                       |  |
| 108 | 1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-16-(trifluoromethyl)-, 1-(dihydrogen phosphate)       | 63295-29-4  |                                                                                       |  |
| 109 | 1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10, 11,11,11-hexa decafluoro-10-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt                          | 63295-18-1  |  |  |
| 110 | 1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10, 11,11,11-hexa decafluoro-10-(trifluoromethyl)-, 1-(dihydrogen phosphate), compd. with 2,2'-iminobis[ethanol] (1:2) | 63295-19-2  |  |  |
| 111 | 2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate, diammonium salt                                     | 63295-23-8  |  |  |
| 112 | Acetic acid, 2-[[[3,3,4,4,5,5,6,6,7,7,8,8,9,10,10, 10-hexadeca fluoro-1-[(phosphonooxy)methyl]-9-(trifluoromethyl) decyl]oxy]-, ammonium salt (1:2)              | 63295-24-9  |  |  |
| 113 | 1-Undecanol, 2-chloro-4,4,5,5,6,6,7,7,8,8,9,9,10, 11,11,11-hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate                                            | 63295-22-7  |  |  |
| 114 | 1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-, 1-(dihydrogen phosphate)                                                  | 94158-70-0  |                                                                                       |  |
| 115 | 1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-, 1-(dihydrogen phosphate), diammonium salt                                 | 94200-46-1  |                                                                                       |  |
| 116 | 1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-, 1-(dihydrogen phosphate), diammonium salt                   | 94200-47-2  |                                                                                       |  |
| 117 | 1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-, 1-(dihydrogen phosphate), diammonium salt        | 94200-48-3  |                                                                                       |  |
| 118 | 1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafuoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt                  | 94200-50-7  |                                                                                       |  |
| 119 | 1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-                                                                                | 94200-51-8  |                                                                                       |  |

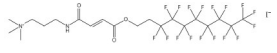
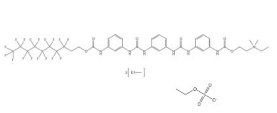
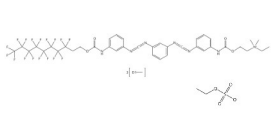
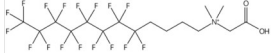
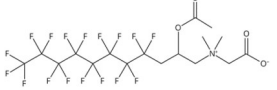
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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|--|
|     | tetracosafluoro-14-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt                                                                                                                        |              |  |  |
| 120 | 1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17-octacosafluoro-16-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt                               | 94200-52-9   |  |  |
| 121 | 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, 1-(dihydrogen phosphate)                                                                                                              | 57678-03-2   |  |  |
| 122 | 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, 1,1'-(hydrogen phosphate)                                                                                                             | 678-41-1     |  |  |
| 123 | 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, dihydrogen phosphate, diammonium salt                                                                                                 | 93857-44-4   |  |  |
| 124 | 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafluoro-, 1-(dihydrogen phosphate), ammonium salt (1:2)                                                                          | 93857-45-5   |  |  |
| 125 | 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-, 1-(dihydrogen phosphate)                                                                                                | 57678-05-4   |  |  |
| 126 | 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-, 1,1'-(hydrogen phosphate)                                                                                               | 1895-26-7    |  |  |
| 127 | 2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,11-heptadecafluoro-, dihydrogen phosphate, potassium salt                                                                                             | 90179-37-6   |  |  |
| 128 | Diphosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl) ester, compd. with 2,2',2''-nitrilotris[ethanol] (1:3)                                                              | 98005-85-7   |  |  |
| 129 | Diphosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl) ester, compd. with 2-aminoethanol (1:3)                                                                             | 98005-84-6   |  |  |
| 130 | Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,12,12-heneicosafluoro dodecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl) ester                                 | 1158182-60-5 |  |  |
| 131 | Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl) mono(3,3,4, 4,5,5,6,6,7,7,8,8,9,9,10,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl) ester                | 1578186-42-1 |  |  |
| 132 | Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,11,11,12,12,12-heneicosafluorododecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl) ester      | 1158182-61-6 |  |  |
| 133 | Ammonium bi(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) phosphate                                                                                                                        | 93776-20-6   |  |  |
| 134 | Ammonium bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafluorodecyl) phosphate                                                                                                          | 93776-21-7   |  |  |
| 135 | 1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11, 11,11-hexadecafluoro-10-(trifluoromethyl)-, 1,1-(hydrogen phosphate)                                                                                   | 63295-20-5   |  |  |
| 136 | 1-Undecanol, 2-chloro-4,4,5,5,6,6,7,7,8,8,9,9, 10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, hydrogen phosphate                                                                                     | 63295-26-1   |  |  |
| 137 | 1-Nonadecanol, 12,12,13,13,14,14,15,15,16, 16,17,17, 18,18,19,19,19-heptadecafluoro-, dihydrogen phosphate                                                                                              | 2343-53-5    |  |  |
| 138 | Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl bis(3,3,4,4,5,5,6,6, 7,7,8,8,8-tridecafluorooctyl) ester                                                                    | 1578186-53-4 |  |  |
| 139 | Phosphoric acid, bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluorodecyl) 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester                                                                     | 1578186-56-7 |  |  |
| 140 | Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafluorododecyl 3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester | 1578186-64-7 |  |  |
| 141 | Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafluorododecylbis (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)                                                             | 1578186-57-8 |  |  |

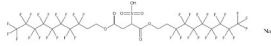
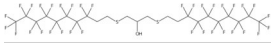
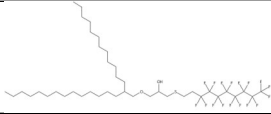
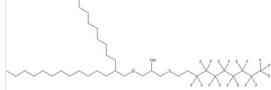
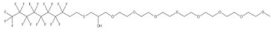
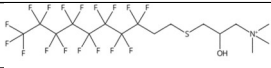
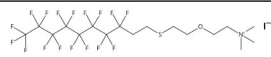
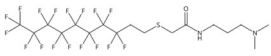
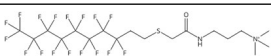
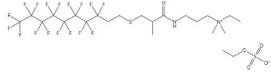
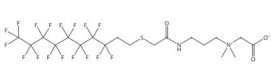
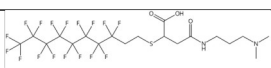
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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|
|     | ester                                                                                                                                                                        |             |                                                                                       |
| 142 | 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptaDecafluoro-, 1,1',1''-phosphate                                                                                         | 149790-22-7 |                                                                                       |
| 143 | 1-Decanesulfonamide, 3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-heptaDecafluoro-N-[3-(phosphorno oxy)propyl]-N-propyl-, sodium salt (1:2)                                         | 441765-20-4 |    |
| 144 | 2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-2-hydroxy-16-(trifluoromethyl)heptadecyl ester                       | 16083-78-6  |                                                                                       |
| 145 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl ester                                           | 4980-53-4   |                                                                                       |
| 146 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl ester                                                     | 6014-75-1   |                                                                                       |
| 147 | 2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl ester                                  | 16083-87-7  |                                                                                       |
| 148 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl ester                                              | 52956-82-8  |                                                                                       |
| 149 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-eicosafuoro-11-(trifluoromethyl)dodecyl ester                                                     | 74256-14-7  |                                                                                       |
| 150 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14-tetra cosafluoro-13-(trifluoromethyl)tetradecyl ester                                    | 74256-15-8  |                                                                                       |
| 151 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester                                                                               | 17741-60-5  |                                                                                       |
| 152 | 2- Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester                                                                   | 2144-54-9   |                                                                                       |
| 153 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptaDecafluorodecyl ester                                                                                            | 27905-45-9  |                                                                                       |
| 154 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptaDecafluorodecyl ester                                                                                 | 1996-88-9   |                                                                                       |
| 155 | 2-Propenoic acid, $\gamma$ - $\omega$ -perfluoro-C <sub>8-14</sub> -alkyl esters                                                                                             | 85631-54-5  |                                                                                       |
| 156 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl ester                                    | 91615-22-4  |                                                                                       |
| 157 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,18,18,18-dotriacontafluoro-17-(trifluoromethyl)octadecyl ester                    | 94158-63-1  |                                                                                       |
| 158 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl ester                         | 94158-64-2  |                                                                                       |
| 159 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,18,18,18-dotriacontafluoro-17-(trifluoromethyl)octadecyl ester         | 94158-65-3  |                                                                                       |
| 160 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptaDecafluoro-1-(hydroxymethyl)decyl ester                                                                         | 146955-29-5 |  |
| 161 | 2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,11-heptaDecafluoro-2-hydroxyundecyl ester                                                                             | 76962-34-0  |  |
| 162 | 1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl) amino]-, inner salt | 93776-12-6  |                                                                                       |
| 163 | 1-Propanaminium, N-(2-carboxyethyl)-3-                                                                                                                                       | 93776-13-7  |                                                                                       |

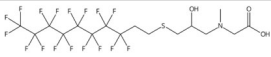
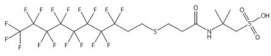
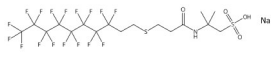
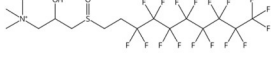
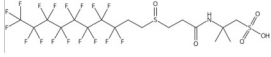
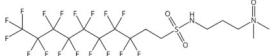
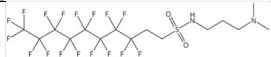
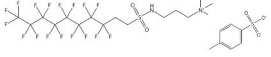
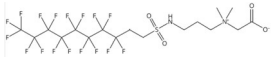
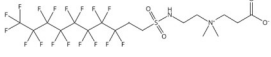
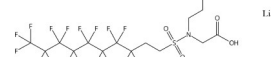
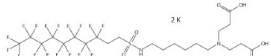
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|     | [(4,4,5,5,6,6,7,7,8,8,9,10,10, 11,11,12,12,13,13,13-heneicosafluoro-2-hydroxytridecyl)amino] -N,N-dimethyl-, inner salt                                                                       |              |                                                                                       |
| 164 | 1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[[4,4,5,5,6,6,7,7,8,8,9,10,10,11,11,12, 12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-14- (trifluoromethyl)pentadecyl]amino]-, inner salt | 93776-15-9   |                                                                                       |
| 165 | 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafluoro-12-(trifluoromethyl)-                                                           | 94159-83-8   |                                                                                       |
| 166 | 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-                                                              | 94159-79-2   |                                                                                       |
| 167 | 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-                                                                            | 94159-80-5   |                                                                                       |
| 168 | 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-14-(trifluoromethyl)-                                            | 94159-82-7   |                                                                                       |
| 169 | Octadecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester                                                                                                            | 99955-83-6   |                                                                                       |
| 170 | Pentanedioic acid, 3-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]-2-oxoethyl]-3-hydroxy-, 1,5-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester     | 302911-86-0  |                                                                                       |
| 171 | Perfluorooctylethylchloromethyl silane                                                                                                                                                        | 3102-79-2    |                                                                                       |
| 172 | Perfluorooctylethyltrimethylchlorosilane                                                                                                                                                      | 74612-30-9   |                                                                                       |
| 173 | Perfluorooctylethyltriethoxysilane                                                                                                                                                            | 101947-16-4  |                                                                                       |
| 174 | Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafluorododecyl)-                                                                                                  | 146090-84-8  |   |
| 175 | Perfluorooctylethyltrichlorosilane                                                                                                                                                            | 78560-44-8   |                                                                                       |
| 176 | Perfluorooctylethyltrimethoxysilane                                                                                                                                                           | 83048-65-1   |                                                                                       |
| 177 | Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11, 12,12,12-heneicosafluorododecyl)trimethoxy-                                                                                                 | 123445-18-1  |                                                                                       |
| 178 | Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)tris(1-methylethoxy)-                                                                                                      | 246234-80-0  |  |
| 179 | Silane, tetrakis[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluorodecyl)thio]ethyl]-                                                                                                  | 1189587-64-1 |  |
| 180 | Propanamide, 3-[(γ-ω-perfluoro-C <sub>4-10</sub> -alkyl)thio] derivatives                                                                                                                     | 68187-42-8   |                                                                                       |
| 181 | Thiols, C <sub>8-20</sub> , γ-ω-perfluoro, telomers with acrylamide                                                                                                                           | 70969-47-0   |                                                                                       |
| 182 | Carbamic acid, [2-(sulphothio)ethyl]-, C-(γ-ω-perfluoro-C <sub>6-9</sub> -alkyl) esters, monosodium salts                                                                                     | 95370-51-7   |                                                                                       |
| 183 | 1,3-Propanediol, 2,2-bis[[ (γ-ω-perfluoro-C <sub>4-10</sub> -alkyl)thio]methyl] derivatives, phosphates, ammonium salts                                                                       | 148240-85-1  |                                                                                       |
| 184 | 1,3-Propanediol, 2,2-bis[[ (γ-ω-perfluoro-C <sub>6-12</sub> -alkyl)thio]methyl] derivatives, phosphates, ammonium salts                                                                       | 148240-87-3  |                                                                                       |
| 185 | 1,3-Propanediol, 2,2-bis[[ (γ-ω-perfluoro-C <sub>10-20</sub> -alkyl)thio]methyl] derivs., phosphates, ammonium salts                                                                          | 148240-89-5  |                                                                                       |
| 186 | Oxirane, methyl-, polymer with oxirane mono[2-hydroxy-3-[( γ-ω-perfluoro-C <sub>8-20</sub> -alkyl)thio]propyl] ethers                                                                         | 183146-60-3  |                                                                                       |
| 187 | Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C <sub>8-20</sub> -alkyl)thio]derivs., compds. with diethanolamine                                                                                     | 71608-61-2   |                                                                                       |
| 188 | 1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-, 1-(dihydrogen phosphate), ammonium salt (1:2)                                                                      | 94200-45-0   |                                                                                       |
| 189 | 2-Pentadecanol, 1,1'-[oxybis[(1-methyl-2,1-                                                                                                                                                   | 93776-00-2   |                                                                                       |

|     |                                                                                                                          |              |                                                                                       |  |
|-----|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|--|
|     | ethanediyl)oxy]]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-                       |              |                                                                                       |  |
| 190 | Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                               | 77117-48-7   |    |  |
| 191 | Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                             | 1835250-28-6 |    |  |
| 192 | Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                             | 182130-12-7  |                                                                                       |  |
| 193 | Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                            | 1835250-47-9 |                                                                                       |  |
| 194 | Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                          | 182130-14-9  |                                                                                       |  |
| 195 | Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                          | 182130-15-0  |                                                                                       |  |
| 196 | Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                           | 6145-05-7    |                                                                                       |  |
| 197 | Heptadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                          | 931415-52-0  |                                                                                       |  |
| 198 | Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                           | 138472-76-1  |                                                                                       |  |
| 199 | Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                          | 117146-18-6  |                                                                                       |  |
| 200 | Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                           | 133310-73-3  |                                                                                       |  |
| 201 | Octacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                           | 137338-39-7  |                                                                                       |  |
| 202 | Triacontane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                          | 137338-40-0  |                                                                                       |  |
| 203 | Dotriacontane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                        | 137338-41-1  |                                                                                       |  |
| 204 | Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                   | 154478-87-2  |                                                                                       |  |
| 205 | Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                  | 1835251-22-3 |                                                                                       |  |
| 206 | Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                | 1244062-17-6 |                                                                                       |  |
| 207 | Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                | 250738-42-2  |                                                                                       |  |
| 208 | Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                 | 116177-54-9  |                                                                                       |  |
| 209 | Heptadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                | 200817-54-5  |                                                                                       |  |
| 210 | Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                 | 93454-70-7   |                                                                                       |  |
| 211 | Nonadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                 | 125635-85-0  |                                                                                       |  |
| 212 | Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                   | 90499-29-9   |                                                                                       |  |
| 213 | Docosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-                                                   | 93454-71-8   |                                                                                       |  |
| 214 | Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,20-tetratriacontafluoro-    | 133299-41-9  |  |  |
| 215 | Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24, 24,24-tetratriacontafluoro- | 100550-08-1  |  |  |
| 216 | 9-Tetracosene, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                                        | 1244062-16-5 |  |  |
| 217 | 1-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-                                    | 31200-97-2   |  |  |
| 218 | 1-Nonanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-heptadecafluoro-                                                              | 423-56-3     |                                                                                       |  |
| 219 | 1-Decanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-nonadecafluoro-                                                     | 307-37-9     |                                                                                       |  |
| 220 | 1-Undecanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,11-heneicosafuoro-                                             | 307-46-0     |                                                                                       |  |
| 221 | Decanal, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-                                                           | 135984-68-8  |                                                                                       |  |
| 222 | Dodecanal, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafuoro-                                             | 864551-38-2  |                                                                                       |  |
| 223 | 2-Dodecenal, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,12,12,12-eicosafuoro-                                                | 864551-40-6  |                                                                                       |  |
| 224 | Nonanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-heptadecafluoro-                                                                | 63967-40-8   |                                                                                       |  |
| 225 | Decanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-                                                        | 335-73-9     |                                                                                       |  |

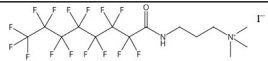
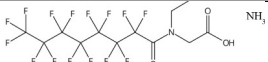
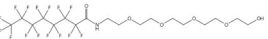
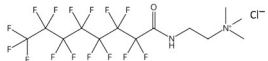
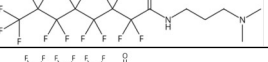
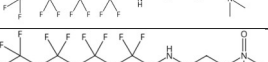
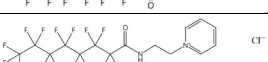
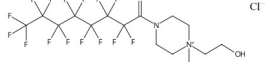
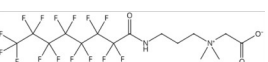
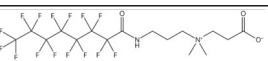
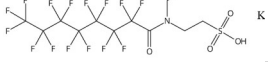
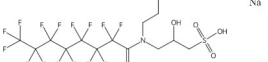
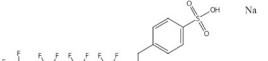
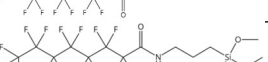
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| 226 | Undecanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heneicosafluoro-                                                                   | 63967-42-0  |  |
| 227 | Ethanol, 2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluorodecyl)oxy]ethoxy]-                                                      | 56900-98-2  |  |
| 228 | Propanol, [2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 10-heptadecafluorodecyl)oxy]methylethoxy]-                                                 | 88243-13-4  |  |
| 229 | Ethanol, 2-[2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl)oxy]methylethoxy] methylethoxy]-                               | 88243-12-3  |  |
| 230 | 3,6,9,12-Tetraxadocosan-1-ol, 15,15,16,16,17, 17,18,18,19,19,20,20,21,21,22,22,22-heptadecafluoro-                                           | 55427-54-8  |  |
| 231 | 3,6,9,12-Tetraxadocosan-1-ol, 15,15,16,16,17, 17,18,18,19,19,20,20,21,21,22,22,22-heptadecafluorodimethyl-                                   | 88271-22-1  |  |
| 232 | 3,6,9,12-Tetraxadocosan-1-ol, 15,15,16,16,17, 17,18,18,19,19,20,20,21,21,22,22,22-heptadecafluorotetramethyl-                                | 88243-14-5  |  |
| 233 | 3,6,9,12,15-Pentaoxapentacosan-1-ol, 18,18,19, 19,20,20,21,21,22,22,23,23,24,24,25,25,25-heptadecafluoropentamethyl-                         | 88243-15-6  |  |
| 234 | 3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22, 22,23,23,24,24,25,25,26,26,27,27,28,28,28-heptadecafluoro-                                   | 88247-39-6  |  |
| 235 | 3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22, 22,23,23,24,24,25,25,26,26,27,27,28,28,28-heptadecafluoropentamethyl-                        | 88243-11-2  |  |
| 236 | 3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22, 22,23,23,24,24,25,25,26,26,27,27,28,28,28-heptadecafluoro hexamethyl-                        | 88243-16-7  |  |
| 237 | 3,6,9,12,15,18,21-Heptaoxahentriacontan-1-ol, 24,24,25,25,26,26,27,27,28,28,29,29,30, 30,31,31,31-heptadecafluoropentamethyl-                | 88243-10-1  |  |
| 238 | 3,6,9,12,15,18,21,24-Octaoxatettratriacontan-1-ol, 27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,34-heptadecafluoro-                       | 88247-40-9  |  |
| 239 | 3,6,9,12,15,18,21,24-Octaoxatettratriacontan-1-ol, 27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,34-heptadecafluorooctamethyl-             | 88243-17-8  |  |
| 240 | 3,6,9,12,15-Pentaoxapentacosan-1-ol, 18,18, 19,19,20,20,21,21,22,22,23,23,24,24,25,25,25-heptadecafluoropentamethyl-, acetate                | 88243-09-8  |  |
| 241 | 1,2-Propanediol, 3-[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl)oxy]-                                                        | 121500-31-0 |  |
| 242 | 11,14,17,20,23,26,29,32-Octaoxaoctatetracontan-33-one, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-                                    | 67549-47-7  |  |
| 243 | Tridecanoic acid, 27,27,28,28,29,29,30,30,31,31, 32,32,33,33,34,34,34-heptadecafluoro-3,6,9,12, 15,18,21,24-octaoxatetra triacont-1-yl ester | 67535-33-5  |  |
| 244 | Oxirane, 2-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononyl)-                                                                         | 38565-53-6  |  |
| 245 | Oxirane, 2-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]methyl]-                                                        | 114482-33-6 |  |
| 246 | 1-Decanaminium, N,N-diethyl-3,3,4,4,5,5, 6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-hydroxy-N-methyl-, iodide (1:1)                          | 99679-40-0  |  |
| 247 | 1-Undecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,11-heptadecafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1)          | 93776-18-2  |  |
| 248 | 2-Undecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,11-nonadecafluoro-1-[(1-methylpropyl) amino]-                                          | 94817-79-5  |  |
| 249 | 2-Dodecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11, 12,12,12-nonadecafluoro-1-[(1-methylpropyl) amino]-                                        | 94817-80-8  |  |

|     |                                                                                                                                                                                                                                                               |              |                                                                                       |
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| 250 | 1-Propanaminium, 3-[[4-[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl)oxy]-1,4-dioxo-2-buten-1-yl]amino]-N,N,N-trimethyl-, iodide (1:1)                                                                                                         | 121912-26-3  |    |
| 251 | Pyridinium, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl)-, iodide (1:1)                                                                                                                                                                     | 25935-14-2   |    |
| 252 | Ethanaminium, N-ethyl-2-[[[[3-[[[3-[[[3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadeca fluorodecyl)oxy]carbonyl]amino]methylphenyl] amino]carbonyl]amino]methylphenyl]amino]carbonyl]amino]methylph enyl]amino]carbonyl]oxy]-N,N-dimethyl-, ethyl sulfate | 100155-23-5  |    |
| 253 | 1-Decanamine, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluoro-N,N-dimethyl-, N-oxide                                                                                                                                                                    | -            |                                                                                       |
| 254 | 1-Dodecanamine, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,11,11,11-nonadecafluoro-N,N-dimethyl-, N-oxide                                                                                                                                                             | -            |                                                                                       |
| 255 | Ethanaminium, N-ethyl-2-[[[[3-[[[3-[[[3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadeca fluorodecyl)oxy]carbonyl]amino]methylphenyl] carbonimidoyl]amino]methylphenyl]carbonimidoyl]amino]methylphen yl]amino]carbonyl]oxy]-N,N-dimethyl-, ethyl sulfate   | 100107-48-0  |    |
| 256 | 1-Decanaminium, N-(carboxymethyl)-3,3,4,4,5,5, 6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-N,N-dimethyl-                                                                                                                                                         | 2089109-26-0 |                                                                                       |
| 257 | 1-Dodecanaminium, N-(carboxymethyl)- 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-N,N-dimethyl-                                                                                                                                           | 2089109-27-1 |                                                                                       |
| 258 | 1-Decanaminium, N-(carboxymethyl)-3,3,4,4,5,5, 6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-N,N-dimethyl-, inner salt                                                                                                                                             | 145441-32-3  |    |
| 259 | 1-Dodecanaminium, N-(carboxymethyl)- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-nonadecafluoro-N,N-dimethyl-, inner salt                                                                                                                                    | 171184-16-0  |                                                                                       |
| 260 | 1-Tetradecanaminium, N-(carboxymethyl)- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-tricosafluoro-N,N-dimethyl-, inner salt                                                                                                                      | 171184-17-1  |                                                                                       |
| 261 | 1-Dodecanaminium, N-(carboxymethyl)- 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-eicosafluoro-N,N-dimethyl-, inner salt                                                                                                                                    | 171184-04-6  |  |
| 262 | 1-Dodecanaminium, N-(carboxymethyl)-5,5,6,6, 7,7,8,8,9,9,10,10,11,11,12,12,12-heptadeca fluoro-N,N-dimethyl-                                                                                                                                                  | 2089109-30-6 |  |
| 263 | 1-Undecanaminium, 2-(acetyloxy)-N-(carboxy methyl)- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-N,N-dimethyl-, inner salt                                                                                                                          | 80234-03-3   |  |
| 264 | 1-Tridecanaminium, 2-(acetyloxy)-N-(carboxy methyl)- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,13-heneicosafluoro-N,N-dimethyl-, inner salt                                                                                                            | 80244-66-2   |                                                                                       |
| 265 | 1-Decanethiol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 10-heptadecafluoro-                                                                                                                                                                                         | 34143-74-3   |                                                                                       |
| 266 | 2-Propenamide, telomer with 3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,10-heptadecafluoro-1-decanethiol                                                                                                                                                               | 76830-13-2   |                                                                                       |
| 267 | 2-Propenamide, telomer with 3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-1-dodecanethiol                                                                                                                                                 | 121913-10-8  |                                                                                       |
| 268 | 1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-heptadecafluoro-                                                                                                                                                                                 | 39108-34-4   |                                                                                       |
| 269 | 1-Dodecanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,11,11,12,12,12-heneicosafluoro-                                                                                                                                                                   | 120226-60-0  |                                                                                       |
| 270 | 1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-heptadecafluoro-, potassium salt (1:1)                                                                                                                                                           | 438237-73-1  |                                                                                       |
| 271 | 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hepta decafluoro-, 1-(hydrogen sulfate), ammonium salt (1:1)                                                                                                                                                  | 63225-57-0   |                                                                                       |

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| 272 | 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafluoro-, 1-(hydrogen sulfate), ammonium salt (1:1)                                         | 63225-58-1   |                                                                                       |
| 273 | Butanedioic acid, 2-sulfo-, 1,4-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester, sodium salt (1:1)                                            | 54950-06-0   |    |
| 274 | Acetic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 10-heptadecafluorodecyl)thio]-, lithium salt (1:1)                                                             | 441765-12-4  |                                                                                       |
| 275 | Propanoic acid, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl)thio]-                                                                              | 54207-62-4   |                                                                                       |
| 276 | Propanoic acid, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)                                                          | 481050-04-8  |                                                                                       |
| 277 | Ethanesulfonic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)                                                     | 441765-14-6  |                                                                                       |
| 278 | 2-Propanol, 1,3-bis[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl)thio]-                                                                             | 160819-47-6  |    |
| 279 | 2-Propanol, 1-[(2-dodecylhexadecyl)oxy]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-                                                       | 160819-50-1  |    |
| 280 | 2-Propanol, 1-[(2-decyltetradecyl)oxy]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-                                                        | 160819-49-8  |    |
| 281 | 2,5,8,11,14,17,20,23-Octaoxa-27-thiaheptatria contan-25-ol, 30,30,31,31,32,32,33,33,34,34,35, 35,36,36,37,37-heptadecafluoro-                                      | 121912-28-5  |    |
| 282 | 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-                                                    | 727351-53-3  |    |
| 283 | 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 12-heneicosafluorododecyl)sulfinyl]-                                 | 1513864-17-9 |                                                                                       |
| 284 | 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-, chloride (1:1)                                    | 71940-07-3   |                                                                                       |
| 285 | 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 12-heneicosafluorododecyl)thio]-, chloride (1:1)                     | -            |                                                                                       |
| 286 | Ethanaminium, 2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluorodecyl)thio]ethoxy]-N,N,N-trimethyl-, iodide (1:1)                                        | 71625-52-0   |  |
| 287 | Acetamide, N-[3-(dimethylamino)propyl]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-                                                        | 1513863-91-6 |  |
| 288 | Acetamide, N-[3-(dimethylamino)propyl]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafluorododecyl) thio]-                                        | 1513863-92-7 |                                                                                       |
| 289 | 1-Propanaminium, 3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl)thio]acetyl] amino]-N,N,N-trimethyl-                                           | 704870-51-9  |  |
| 290 | 1-Propanaminium, 3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,12,12-heneicosafluorodecyl)thio]acetyl]amino]-N,N,N-trimethyl-                                | 1513864-01-1 |                                                                                       |
| 291 | 1-Propanaminium, N-ethyl-3-[[3-[(3,3,4,4,5, 5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) thio]-2-methyl-1-oxopropyl]amino]-N,N-dimethyl-, ethyl sulfate (1:1)  | 67333-62-4   |  |
| 292 | 1-Propanaminium, N-(carboxymethyl)-3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]acetyl] amino]-N,N-dimethyl-, inner salt                 | 1513863-96-1 |  |
| 293 | 1-Propanaminium, N-(carboxymethyl)-3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafluorododecyl) thio]acetyl] amino]-N,N-dimethyl-, inner salt | 1513863-97-2 |                                                                                       |
| 294 | Butanoic acid, 4-[[3-(dimethylamino)propyl] amino]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) thio]-4-                                         | 1383438-89-8 |  |

|     |                                                                                                                                                                                                                                                                                                                                                                  |              |                                                                                       |  |
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|     | oxo-                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                       |  |
| 295 | Butanoic acid, 4-[[3-(dimethylamino)propyl] amino]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,12,12,12-heneicosafluorododecyl)thio]-4-oxo-                                                                                                                                                                                                                     | 1383438-90-1 |                                                                                       |  |
| 296 | Glycine, N-[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 10-heptadecafluorodecyl)thio]-2-hydroxypropyl]-N-methyl-                                                                                                                                                                                                                                                      | 93128-66-6   |    |  |
| 297 | 1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-1-oxopropyl]amino]-2-methyl-                                                                                                                                                                                                                                    | 755698-73-8  |    |  |
| 298 | 1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro dodecyl)thio]-1-oxopropyl] amino]-2-methyl-                                                                                                                                                                                                                    | 690947-60-5  |                                                                                       |  |
| 299 | 1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-1-oxopropyl]amino]-2-methyl-, sodium salt (1:1)                                                                                                                                                                                                                 | 62880-96-0   |    |  |
| 300 | 1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro dodecyl)thio]-1-oxopropyl]amino]-2-methyl-, sodium salt (1:1)                                                                                                                                                                                                  | 62880-98-2   |                                                                                       |  |
| 301 | 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfinyl]-                                                                                                                                                                                                                                              | 1513864-19-1 |    |  |
| 302 | 1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,10-heptadecafluorodecyl) sulfinyl]-1-oxopropyl]amino]-2-methyl-                                                                                                                                                                                                                               | 1513864-12-4 |    |  |
| 303 | 1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro dodecyl)sulfinyl]-1-oxopropyl]amino]-2-methyl-                                                                                                                                                                                                                 | 1513864-11-3 |                                                                                       |  |
| 304 | 1-Decanesulfonamide, N-[3-(dimethyloxi do amino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluoro-                                                                                                                                                                                                                                                   | 80475-33-8   |    |  |
| 305 | 1-Decanesulfonamide, N-[3-(dimethylamino) propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-                                                                                                                                                                                                                                                          | 34455-23-7   |   |  |
| 306 | 1-Dodecanesulfonamide, N-[3-(dimethylamino) propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,12,12,12-heneicosafluoro-                                                                                                                                                                                                                                           | 34455-24-8   |                                                                                       |  |
| 307 | 1-Propanaminium, 3-[[[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl)sulfonyl] amino]-N,N,N-trimethyl-, 4-methylbenzene sulfonate (1:1)                                                                                                                                                                                                             | 438237-77-5  |  |  |
| 308 | 1-Propanaminium, N-(carboxymethyl)-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfonyl]amino]-N,N-dimethyl-, inner salt                                                                                                                                                                                                                     | 34455-21-5   |  |  |
| 309 | 1-Propanaminium, N-(carboxymethyl)-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl)sulfonyl]amino]-N,N-dimethyl-, inner salt                                                                                                                                                                                                       | 34455-35-1   |                                                                                       |  |
| 310 | Ethanaminium, N-(2-carboxyethyl)-2-[[[(3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro decyl)sulfonyl]amino]-N,N-dimethyl-, inner salt                                                                                                                                                                                                                     | 34695-29-9   |  |  |
| 311 | Ethanaminium, N-(2-carboxyethyl)-2-[[[(3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl) sulfonyl]amino]-N,N-dimethyl-, inner salt                                                                                                                                                                                                       | 34695-31-3   |                                                                                       |  |
| 312 | Glycine, N-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfonyl]-N-propyl-, lithium salt                                                                                                                                                                                                                                                         | 441765-18-0  |  |  |
| 313 | β-Alanine, N-(2-carboxyethyl)-N-[6-[[[(3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro decyl)sulfonyl]amino]hexyl]-, dipotassium salt                                                                                                                                                                                                                      | 98900-53-9   |  |  |
| 314 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, hexadecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2- | 115592-83-1  |                                                                                       |  |

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|     | propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |  |  |
| 315 | 2-Propenoic acid, 2-methyl-, C <sub>10-16</sub> -alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and $\gamma$ - $\omega$ -perfluoro-C <sub>8-14</sub> -alkyl acrylate                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 129783-45-5 |  |  |
| 316 | 2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and $\gamma$ - $\omega$ -perfluoro-C <sub>8-14</sub> -alkyl acrylate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 144031-01-6 |  |  |
| 317 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosaf fluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, alpha-(2-methyl-1-oxo-2-propenyl)-omega-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosaf fluorohexadecyl 2-propenoate, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosaf fluorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosaf fluorotetradecyl 2-propenoate | 116984-14-6 |  |  |
| 318 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, homopolymer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 74049-08-4  |  |  |
| 319 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosaf fluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosaf fluorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate                                                                                                                                                                                                                     | 65104-45-2  |  |  |
| 320 | 2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester, polymer with 2-propenoic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 53515-73-4  |  |  |
| 321 | Poly(oxy-1,2-ethanediyl),a-[2-[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl) amino]ethyl]- $\omega$ -hydroxy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 93480-00-3  |  |  |
| 322 | 2-Propenoic acid, polymer with 2-ethenylnaphthalene and 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl 2-propenoate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 934505-67-6 |  |  |
| 323 | 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,12,12,12-heneicosaf fluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosaf fluorotetradecyl 2-propenoate                                                                                                                                                                                                                                                                                                               | 142636-88-2 |  |  |
| 324 | Amides, C <sub>7-19</sub> , $\alpha$ - $\omega$ -perfluoro-N,N-bis(hydroxyethyl)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 90622-99-4  |  |  |
| 325 | Piperazinium, 1-(carboxymethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)-, inner salt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 71356-38-2  |  |  |
| 326 | 2-Propenoic acid, perfluoro-C <sub>8-16</sub> -alkyl esters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 85681-64-7  |  |  |
| 327 | 2-Propenoic acid, 2-methyl-, C <sub>10-16</sub> -alkyl esters, polymers with 2-hydroxyethylmethacrylate, Me methacrylate and perfluoro-C <sub>8-14</sub> -alkyl acrylate                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 125328-29-2 |  |  |
| 328 | Phosphine, tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 325459-92-5 |  |  |
| 329 | Palladium, dichlorobis[tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]phosphine- $\kappa$ P]-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 326475-46-1 |  |  |
| 330 | 1-Propanaminium, N-(2-carboxyethyl)-N,N-bis(2-hydroxyethyl)-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, inner salt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 39186-68-0  |  |  |

|     |                                                                                                                                                                                                                             |             |                                                                                       |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|
| 331 | Octanamide, N-[3-[bis(2-hydroxyethyl)amino]propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-                                                                                                                           | 41358-63-8  |                                                                                       |
| 332 | Benzenesulfonyl chloride, 3,4-bis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-                                                                                                                         | 24216-05-5  |                                                                                       |
| 333 | 1-Propanaminium,N,N,N-trimethyl-3- [(2,2,3,3,4, 4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl) amino]-, chloride (1:1)                                                                                                     | 53517-98-9  |                                                                                       |
| 334 | 1-Propanaminium, N,N,N-trimethyl-3-[(2,2,3,3,4, 4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl) amino]-, iodide (1:1)                                                                                                       | 335-90-0    |    |
| 335 | Octanamide, N-(3-aminopropyl)-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-                                                                                                                                                | 85938-56-3  |                                                                                       |
| 336 | 1-Propanesulfonic acid,3-[ethyl (2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-,sodium salt (1:1)                                                                                                         | 89685-61-0  |                                                                                       |
| 337 | Nonene, heptadecafluoro-1-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]-                                                                                                                                        | 84029-60-7  |                                                                                       |
| 338 | Glycine, N-ethyl-N-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)-, ammonium salt                                                                                                                               | 138473-79-7 |    |
| 339 | Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-(14-hydroxy-3,6,9,12-tetraoxatetradec-1-yl)-                                                                                                                    | 89932-71-8  |    |
| 340 | Ethanaminium, N,N,N-trimethyl-2-[(2,2,3,3,4,4, 5,5,6,6,7,7,7-pentadecafluoro-1-oxooctyl)amino]-, chloride (1:1)                                                                                                             | 178766-44-4 |    |
| 341 | Octanamide, N-[3-(dimethylamino)propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-                                                                                                                                      | 376-23-8    |    |
| 342 | 1-Pentanaminium, N,N,N-trimethyl-5-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, iodide (1:1)                                                                                                         | 91707-61-8  |    |
| 343 | Octanamide, N-[3-(dimethyloxidoamino)propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-                                                                                                                                 | 30295-53-5  |   |
| 344 | Pyridinium, 1-[2-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]ethyl]-, chloride (1:1)                                                                                                                   | 308-01-0    |  |
| 345 | Pyridinium, 1-[2-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]ethyl]-, bromide (1:1)                                                                                                                    | 331755-02-3 |                                                                                       |
| 346 | Piperazinium, 1-(2-hydroxyethyl)-1-methyl-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)-, chloride (1:1)                                                                                                     | 103555-98-2 |  |
| 347 | 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, inner salt                                                                                            | 90179-39-8  |  |
| 348 | 1-Propanaminium, N-(2-carboxyethyl)-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-N,N-dimethyl-, inner salt                                                                                           | 5158-52-1   |  |
| 349 | Ethanesulfonic acid, 2-[ethyl(2,2,3,3,4,4,5,5,6,6, 7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, potassium salt (1:1)                                                                                                       | 57670-46-9  |  |
| 350 | 1-Propanesulfonic acid, 3-[(3-aminopropyl) (2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-2-hydroxy-, sodium salt (1:1)                                                                                   | 98900-76-6  |  |
| 351 | Benzenesulfonic acid, 4-[[[3-(methylamino) propyl] (2,2,3,3,4,4 ,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]methyl]-, sodium salt (1:1)                                                                             | 98900-75-5  |  |
| 352 | Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-[3-(trimethoxysilyl)propyl]-                                                                                                                                    | 98046-76-5  |  |
| 353 | Poly(oxy-1,2-ethanediyl), α-[dimethoxy[3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]propyl]silyl]-ω-[[dimethoxy[3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]propyl]silyl]oxy]- | 154380-30-0 |  |

公告事項第二項附表二修正草案對照表

| 修正規定                    |    |              |                                                                                                                             | 現行規定                    |    |              |              | 說                                                                                                                                                                                                                                                                                                                                                                | 明 |
|-------------------------|----|--------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------|----|--------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 附表二 公告列管毒性化學物質禁止運作事項一覽表 |    |              |                                                                                                                             | 附表二 公告列管毒性化學物質禁止運作事項一覽表 |    |              |              | 一、修正壬基酚及壬基酚聚乙氧基醇之禁止運作事項：<br>（一）參考歐盟 REACH 附錄十七項目四十六，限制壬基酚及壬基酚聚乙氧基醇用於工業及公共機構用清潔劑 (Industrial and institutional cleaning, I&I cleaning)、紡織品和皮革製品之處理、金屬加工、紙漿和紙張之製造等具環境風險之相關用途。<br>（二）除家用清潔劑已自九十七年一月一日起禁止使用壬基酚、壬基酚聚乙氧基醇製造，其他用途之工業及機構用清潔劑 (Industrial and institutional cleaning, I&I cleaning) 依附表四期限禁止運作。<br>（三）本項所指「清潔劑 (Detergent)」，係指任何用於清潔過程中，含肥皂或界面活性劑之物質或混合物。 |   |
| 列管編號                    | 序號 | 化學物質<br>中文名稱 | 禁 止 運 作 事 項                                                                                                                 | 列管編號                    | 序號 | 化學物質<br>中文名稱 | 禁 止 運 作 事 項  |                                                                                                                                                                                                                                                                                                                                                                  |   |
| 165                     | 01 | 壬基酚（壬酚）      | 1. 禁止使用於製造家用清潔劑<br>2. 禁止使用於下列用途：<br><u>(1)製造工業及公共機構用清潔劑</u>                                                                 | 165                     | 01 | 壬基酚（壬酚）      | 禁止使用於製造家用清潔劑 |                                                                                                                                                                                                                                                                                                                                                                  |   |
| 165                     | 02 | 壬基酚聚乙氧基醇     | <u>(2)處理紡織品或皮革製品</u><br><u>(3)金屬加工</u><br><u>(4)製造紙漿或紙張</u><br><br><u>但受控之系統、製程、防制設備，可完全回收、焚化或自廢水移除，且非於國內市場使用及販賣者，不在此限。</u> | 165                     | 02 | 壬基酚聚乙氧基醇     |              |                                                                                                                                                                                                                                                                                                                                                                  |   |

公告事項第三項附表三修正草案對照表

| 修正規定                   |    |                  |                                                                                                                                                                                 | 現行規定                   |    |              |                                                                                                                                                                                                                                                                                                                                                      | 說                                                                                                                                                                                                                                                                                                                                                                                                                                         | 明 |
|------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 附表三 公告列管毒性化學物質得使用用途一覽表 |    |                  |                                                                                                                                                                                 | 附表三 公告列管毒性化學物質得使用用途一覽表 |    |              |                                                                                                                                                                                                                                                                                                                                                      | <p>一、經調查國內實際運作情形及參考歐盟REACH限制壬基酚及壬基酚聚乙氧基醇用於工業及公共機構用清潔劑、紡織品和皮革製品之處理、金屬加工、紙漿和紙張之製造等具環境風險之相關用途，配合修正得使用用途；並考量壬基酚、壬基酚聚乙氧基醇其用途相似，且具有相同禁止運作事項，整合壬基酚及壬基酚聚乙氧基醇之得使用用途一致。</p> <p>二、若欲將壬基酚聚乙氧基醇使用於工業用清潔劑、紡織品及皮革處理、金屬工業、紙業，應提出設備、製程及廢水、廢棄物整體處理規劃，應證明其使用係於受控之系統、製程、防制設備，可完全回收、焚化或自廢水移除壬基酚及壬基酚聚乙氧基醇，且非於國內市場使用及販賣，不在此限。</p> <p>三、配合本次增列五種全氟辛烷磺酸鹽類與相關化合物，為管制一致，調整原全氟辛烷磺酸（列管編號 169-01）名稱為全氟辛烷磺酸及其鹽類與相關化合物，並刪除全氟辛烷磺酸鋰鹽（列管編號 169-02）、全氟辛烷磺醯氟（列管編號 169-03）。</p> |   |
| 列管編號                   | 序號 | 化學物質<br>中文名稱     | 用 途                                                                                                                                                                             | 列管編號                   | 序號 | 化學物質<br>中文名稱 | 用 途                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
| 165                    | 01 | 壬基酚（壬酚）          | <u>1.研究、試驗、教育。</u><br><u>2.製藥。</u><br><u>3.合成樹脂、酚醛樹脂之原料。</u><br><u>4.抗氧化劑。</u>                                                                                                  | 165                    | 01 | 壬基酚（壬酚）      | <u>1.研究、試驗、教育。</u><br><u>2.工業用清潔劑、界面活性劑。</u><br><u>3.製藥。</u><br><u>4.抗氧化劑。</u><br><u>5.安定劑。</u><br><u>6.電路積層板。</u><br><u>7.合成樹脂、酚醛樹脂之原料。</u><br><u>8.殺精劑。</u>                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
| 165                    | 02 | 壬基酚聚乙氧基醇         | <u>5.安定劑。</u><br><u>6.殺精劑。</u><br><u>7.油品、染顏料、印花油墨之乳化劑、分散劑。</u><br><u>8.漆類、塗料、黏著劑</u>                                                                                           |                        |    |              |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
| 169                    | 01 | 全氟辛烷磺酸及其鹽類與相關化合物 | 1.研究、試驗、教育。<br>2.使用於封閉系統中硬金屬電鍍。                                                                                                                                                 |                        |    |              |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
| 169                    | 04 | 全氟辛酸及其鹽類與相關化合物   | 1.研究、試驗、教育。<br>2.半導體的光蝕刻或蝕刻製程。<br>3.攝影底片塗層之製造。<br>4.具撥油、撥水性之勞工用紡織品之製造。<br>5.工業廢熱交換器及工業密封劑之聚四氟乙烯(PTFE)及聚偏氟乙烯膜(PVDF)之製造。<br>6.高壓電線及電纜之聚氟乙烯丙烯(FEP)之製造。<br>7.車用內裝之圓形環、三角皮帶及塑膠零件之製造。 | 165                    | 02 | 壬基酚聚乙氧基醇     | <u>1.研究、試驗、教育。</u><br><u>2.工業用清潔劑、界面活性劑。</u><br><u>3.製藥。</u><br><u>4.紡織用精煉劑、滲透劑、分散劑、安定劑、沉澱防止劑、乳化劑、皂洗劑。</u><br><u>5.助焊劑、電路積層板清洗劑。</u><br><u>6.金屬工業脫酯劑、光澤劑、切削油、乳化劑。</u><br><u>7.皮革脫酯劑。</u><br><u>8.農藥乳化劑、分散劑、展著劑。</u><br><u>9.樹脂乳化、聚合乳化劑。</u><br><u>10.油品乳化劑、分散劑。</u><br><u>11.染顏料、印花油墨之分散助劑。</u><br><u>12.羽毛、紙業之脫脂、除臭劑。</u><br><u>13.水處理鑄模消泡、離型劑。</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
|                        |    |                  |                                                                                                                                                                                 | 169                    | 01 | 全氟辛烷磺酸       | 1.研究、試驗、教育。<br>2.使用於封閉系統中硬金屬電鍍。                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
|                        |    |                  |                                                                                                                                                                                 |                        | 02 | 全氟辛烷磺酸鋰鹽     |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
|                        |    |                  |                                                                                                                                                                                 |                        | 03 | 全氟辛烷磺醯氟      |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
|                        |    |                  |                                                                                                                                                                                 | 169                    | 04 | 全氟辛酸         | 1.研究、試驗、教育。<br>2.半導體的光刻或蝕刻製程。<br>3.攝影底片塗層之製造。<br>4.具撥油、撥水性之勞工用紡織品之製造。<br>5.工業廢熱交換器及工業密封劑之聚四氟乙烯(PTFE)及聚偏氟乙烯膜(PVDF)之製造。                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |

|  |  |  |                                                       |  |
|--|--|--|-------------------------------------------------------|--|
|  |  |  | 6.高壓電線及電纜之聚氟乙烯丙烯(FEP)之製造。<br>7.車用內裝之圓形環、三角皮帶及塑膠零件之製造。 |  |
|  |  |  |                                                       |  |
|  |  |  |                                                       |  |

四、配合增列三百五十二種全氟辛酸鹽類與相關化合物，為管理一致，調整原全氟辛酸（列管編號 169-04）名稱為全氟辛酸及其鹽類與相關化合物。

五、參考歐盟持久性有機污染物條例豁免原則修訂全氟辛烷磺酸(PFOS)及其鹽類與相關化合物、全氟辛酸(PFOA)及其鹽類與相關化合物得使用用途：

（一）一旦使用更安全替代品，且技術及經濟上可行，將不再使用 PFOS 及 PFOA。

（二）於無適當之更安全替代品，且已報告為了尋找更安全替代品所做努力之情況下，得繼續豁免。

（三）透過應用最佳可行技術以最大限度降低 PFOS 及 PFOA 排放至環境中。

（四）配合國內產業用語修訂全氟辛酸及其鹽類與相關化合物半導體得使用用途，半導體之光蝕刻為多步驟製程，包括晶圓薄膜形成、黃光、蝕刻等，均為得使用之半導體光蝕刻製程。

公告事項第四項附表四修正草案對照表

| 修正規定                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                                   | 現行規定                                                                                                                                                         |                    |              | 說明                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
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| 附表四 已運作公告列管毒性化學物質應於規定期限完成相關事項一覽表                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                   |                                                                                                                                                                                   | 附表四 已運作公告列管毒性化學物質應於規定期限完成相關事項一覽表                                                                                                                             |                    |              | 一、氧化三丁錫、氫氧化三苯錫、醋酸三丁錫、溴化三丁錫、氯化三丁錫、氫化三丁錫、溴化三苯錫、醋酸三苯錫、氯化三苯錫、三苯基- $\alpha$ -萘錫（化學文摘社登記號碼81134-67-0）、氟化三丙錫（化學文摘社登記號碼682-32-6）、溴化三甲苯錫（化學文摘社登記號碼58436-46-7）及參（三苯錫）甲烷（化學文摘社登記號碼50485-45-5）之期限及相關規定事項均已如期實施，爰刪除（一）（二）期限一覽表。<br>二、因刪除現行附表四（一）（二），爰調整附表順序，爰附表四（三）移列為附表四（一）。<br>三、配合本次增列壬基酚及壬基酚聚乙氧基醇化學文摘社登記號碼，並調整管制濃度為0.1%，增列應於規定期限完成相關事項。另考量壬基酚及壬基酚聚乙氧基醇於國內之使用現況，附表二禁止運作事項及附表三得使用用途分別給予原管制濃度達5%以上者一年半緩衝期、新管制濃度區間達0.1%未達5%者二年緩衝期；既有運作者應於規定期限內調整壬基酚及壬基酚聚乙氧基醇之運作，並視實際運作情形變更許可證、登記文件或核可文件。<br>四、配合本次新增納管全氟辛烷磺酸鹽類與相 |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| （一）全氟己烷磺酸及其鹽類與相關化合物、全氟辛烷磺酸、全氟辛烷磺醯氟、全氟辛烷磺酸鋰鹽、全氟辛酸應於規定期限完成相關事項一覽表                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                   |                                                                                                                                                                                   | （一） <u>氧化三丁錫、氫氧化三苯錫、醋酸三丁錫、溴化三丁錫、氯化三丁錫、氫化三丁錫、溴化三苯錫、醋酸三苯錫、氯化三苯錫應於規定期限完成相關事項一覽表</u>                                                                             |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| <table><tr><th><div>毒性化學物質</div><div>規定事項</div></th><td>全氟己烷磺酸及其鹽類與相關化合物、全氟辛烷磺酸(未達濃度0.01%)、全氟辛烷磺醯氟(未達濃度0.01%)、全氟辛烷磺酸鋰鹽(未達濃度0.01%)、全氟辛酸(未達濃度0.01%)應於規定期限完成相關事項</td></tr><tr><td>運作紀錄及釋放量紀錄。</td><td>自公告日起開始記錄並依規定定期申報。</td></tr><tr><td>提報危害預防及應變計畫。</td><td>中華民國一百十四年五月一日前完成提報。</td></tr><tr><td>完成容器、包裝、運作場所及設施之標示並備安全資料表。</td><td>中華民國一百十四年五月一日前完成改善。</td></tr><tr><td>運送毒性化學物質。</td><td>中華民國一百十四年十一月一日前依規定辦理。</td></tr><tr><td>備緊急應變工具及設備。</td><td>中華民國一百十四年五月一日前完成。</td></tr><tr><td>提報應變器材、偵測及警報設備之設置及操作計畫。</td><td>中華民國一百十四年八月一日前完成提報。</td></tr><tr><td>提報聯防組織設立計畫。</td><td>中華民國一百十四年八月一日前完成提報。</td></tr><tr><td>完成偵測及警報設備之設置。</td><td>中華民國一百十四年十一月一日前完成設置。</td></tr><tr><td>依備查之危害預防及應變計畫內容實施。</td><td>中華民國一百十四年十一月一日起實施。</td></tr><tr><td>專業技術管理人員。</td><td>中華民國一百十四年十一月一日前完成設置。</td></tr><tr><td>責任保險。</td><td>自公告日起六個月內完成投保事宜。</td></tr><tr><td>專業應變人員。</td><td>中華民國一百十四年十一月一日前完成訓練及登載。</td></tr><tr><td>依規定取得許可證、登記文件或核可文件。</td><td>中華民國一百十四年十一月一日前取得。</td></tr><tr><td>其他本表未列事項。</td><td>自即日起依有關規定辦理。</td></tr></table> | <div>毒性化學物質</div> <div>規定事項</div>                                                                                                                                                 | 全氟己烷磺酸及其鹽類與相關化合物、全氟辛烷磺酸(未達濃度0.01%)、全氟辛烷磺醯氟(未達濃度0.01%)、全氟辛烷磺酸鋰鹽(未達濃度0.01%)、全氟辛酸(未達濃度0.01%)應於規定期限完成相關事項                                                                             | 運作紀錄及釋放量紀錄。                                                                                                                                                  | 自公告日起開始記錄並依規定定期申報。 | 提報危害預防及應變計畫。 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 中華民國一百十四年五月一日前完成提報。 | 完成容器、包裝、運作場所及設施之標示並備安全資料表。 | 中華民國一百十四年五月一日前完成改善。 | 運送毒性化學物質。 | 中華民國一百十四年十一月一日前依規定辦理。 | 備緊急應變工具及設備。 | 中華民國一百十四年五月一日前完成。 | 提報應變器材、偵測及警報設備之設置及操作計畫。 | 中華民國一百十四年八月一日前完成提報。 | 提報聯防組織設立計畫。 | 中華民國一百十四年八月一日前完成提報。 | 完成偵測及警報設備之設置。 | 中華民國一百十四年十一月一日前完成設置。 | 依備查之危害預防及應變計畫內容實施。 | 中華民國一百十四年十一月一日起實施。 | 專業技術管理人員。 | 中華民國一百十四年十一月一日前完成設置。 | 責任保險。 | 自公告日起六個月內完成投保事宜。 | 專業應變人員。 | 中華民國一百十四年十一月一日前完成訓練及登載。 | 依規定取得許可證、登記文件或核可文件。 | 中華民國一百十四年十一月一日前取得。 | 其他本表未列事項。 | 自即日起依有關規定辦理。 | <table><tr><th><div>毒性化學物質</div><div>規定事項</div></th><td><u>氧化三丁錫、氫氧化三苯錫規定期限完成事項<sup>(註)</sup></u></td><td><u>醋酸三丁錫、溴化三丁錫、氯化三丁錫、氫化三丁錫、溴化三苯錫、醋酸三苯錫及氯化三苯錫規定期限完成事項<sup>(註)</sup></u></td></tr><tr><td>提報危害預防及應變計畫。</td><td><u>自即日起。</u></td><td><u>中華民國一百十三年五月一日前完成。</u></td></tr><tr><td>運送毒性化學物質。</td><td><u>中華民國一百十三年二月一日起依規定辦理。</u></td><td><u>中華民國一百十三年八月一日起依規定辦理。</u></td></tr><tr><td>提報應變器材、偵測及警報設備之設置及操作計畫。</td><td><u>自即日起。</u></td><td><u>中華民國一百十三年五月一日前完成提報。</u></td></tr><tr><td>提報聯防組織設立計畫。</td><td><u>自即日起。</u></td><td><u>中華民國一百十三年五月一日前完成提報。</u></td></tr><tr><td>完成偵測及警報設備之設置。</td><td><u>自即日起。</u></td><td><u>中華民國一百十三年八月一日前完成設置。</u></td></tr><tr><td>依備查之危害預防及應變計畫內容實施。</td><td><u>自即日起。</u></td><td><u>中華民國一百十三年八月一日起實施。</u></td></tr><tr><td>專業技術管理人員。</td><td><u>自即日起。</u></td><td><u>中華民國一百十三年八月一日前完成設置。</u></td></tr><tr><td>專業應變人員。</td><td><u>中華民國一百十二年七月一日前完成訓練及登載。</u></td><td><u>中華民國一百十三年八月一日前完成訓練及登載。</u></td></tr><tr><td>依規定取得許可證、登記文件或核可文件。</td><td><u>中華民國一百十三年八月一日前取得或完成證件變更。</u></td><td><u>中華民國一百十三年八月一日前取得或完成證件變更。</u></td></tr><tr><td>其他本表未列事項。</td><td><u>中華民國一百十三年二月一日起依有關規定辦理。</u></td><td><u>中華民國一百十三年二月一日起依有關規定辦理。</u></td></tr></table> | <div>毒性化學物質</div> <div>規定事項</div> | <u>氧化三丁錫、氫氧化三苯錫規定期限完成事項<sup>(註)</sup></u> | <u>醋酸三丁錫、溴化三丁錫、氯化三丁錫、氫化三丁錫、溴化三苯錫、醋酸三苯錫及氯化三苯錫規定期限完成事項<sup>(註)</sup></u> | 提報危害預防及應變計畫。 | <u>自即日起。</u> | <u>中華民國一百十三年五月一日前完成。</u> | 運送毒性化學物質。 | <u>中華民國一百十三年二月一日起依規定辦理。</u> | <u>中華民國一百十三年八月一日起依規定辦理。</u> | 提報應變器材、偵測及警報設備之設置及操作計畫。 | <u>自即日起。</u> | <u>中華民國一百十三年五月一日前完成提報。</u> | 提報聯防組織設立計畫。 | <u>自即日起。</u> | <u>中華民國一百十三年五月一日前完成提報。</u> | 完成偵測及警報設備之設置。 | <u>自即日起。</u> | <u>中華民國一百十三年八月一日前完成設置。</u> | 依備查之危害預防及應變計畫內容實施。 | <u>自即日起。</u> | <u>中華民國一百十三年八月一日起實施。</u> | 專業技術管理人員。 | <u>自即日起。</u> | <u>中華民國一百十三年八月一日前完成設置。</u> | 專業應變人員。 | <u>中華民國一百十二年七月一日前完成訓練及登載。</u> | <u>中華民國一百十三年八月一日前完成訓練及登載。</u> | 依規定取得許可證、登記文件或核可文件。 | <u>中華民國一百十三年八月一日前取得或完成證件變更。</u> | <u>中華民國一百十三年八月一日前取得或完成證件變更。</u> | 其他本表未列事項。 | <u>中華民國一百十三年二月一日起依有關規定辦理。</u> |
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| 提報危害預防及應變計畫。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 中華民國一百十四年五月一日前完成提報。                                                                                                                                                               |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 完成容器、包裝、運作場所及設施之標示並備安全資料表。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 中華民國一百十四年五月一日前完成改善。                                                                                                                                                               |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 運送毒性化學物質。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 中華民國一百十四年十一月一日前依規定辦理。                                                                                                                                                             |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 備緊急應變工具及設備。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 中華民國一百十四年五月一日前完成。                                                                                                                                                                 |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 提報應變器材、偵測及警報設備之設置及操作計畫。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 中華民國一百十四年八月一日前完成提報。                                                                                                                                                               |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 提報聯防組織設立計畫。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 中華民國一百十四年八月一日前完成提報。                                                                                                                                                               |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 完成偵測及警報設備之設置。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 中華民國一百十四年十一月一日前完成設置。                                                                                                                                                              |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 依備查之危害預防及應變計畫內容實施。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 中華民國一百十四年十一月一日起實施。                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 專業技術管理人員。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 中華民國一百十四年十一月一日前完成設置。                                                                                                                                                              |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 責任保險。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 自公告日起六個月內完成投保事宜。                                                                                                                                                                  |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 專業應變人員。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 中華民國一百十四年十一月一日前完成訓練及登載。                                                                                                                                                           |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 依規定取得許可證、登記文件或核可文件。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 中華民國一百十四年十一月一日前取得。                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 其他本表未列事項。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 自即日起依有關規定辦理。                                                                                                                                                                      |                                                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| <div>毒性化學物質</div> <div>規定事項</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u>氧化三丁錫、氫氧化三苯錫規定期限完成事項<sup>(註)</sup></u>                                                                                                                                         | <u>醋酸三丁錫、溴化三丁錫、氯化三丁錫、氫化三丁錫、溴化三苯錫、醋酸三苯錫及氯化三苯錫規定期限完成事項<sup>(註)</sup></u>                                                                                                            |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 提報危害預防及應變計畫。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>自即日起。</u>                                                                                                                                                                      | <u>中華民國一百十三年五月一日前完成。</u>                                                                                                                                                          |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 運送毒性化學物質。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>中華民國一百十三年二月一日起依規定辦理。</u>                                                                                                                                                       | <u>中華民國一百十三年八月一日起依規定辦理。</u>                                                                                                                                                       |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 提報應變器材、偵測及警報設備之設置及操作計畫。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>自即日起。</u>                                                                                                                                                                      | <u>中華民國一百十三年五月一日前完成提報。</u>                                                                                                                                                        |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 提報聯防組織設立計畫。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>自即日起。</u>                                                                                                                                                                      | <u>中華民國一百十三年五月一日前完成提報。</u>                                                                                                                                                        |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 完成偵測及警報設備之設置。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>自即日起。</u>                                                                                                                                                                      | <u>中華民國一百十三年八月一日前完成設置。</u>                                                                                                                                                        |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 依備查之危害預防及應變計畫內容實施。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>自即日起。</u>                                                                                                                                                                      | <u>中華民國一百十三年八月一日起實施。</u>                                                                                                                                                          |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 專業技術管理人員。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>自即日起。</u>                                                                                                                                                                      | <u>中華民國一百十三年八月一日前完成設置。</u>                                                                                                                                                        |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 專業應變人員。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>中華民國一百十二年七月一日前完成訓練及登載。</u>                                                                                                                                                     | <u>中華民國一百十三年八月一日前完成訓練及登載。</u>                                                                                                                                                     |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 依規定取得許可證、登記文件或核可文件。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>中華民國一百十三年八月一日前取得或完成證件變更。</u>                                                                                                                                                   | <u>中華民國一百十三年八月一日前取得或完成證件變更。</u>                                                                                                                                                   |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 其他本表未列事項。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>中華民國一百十三年二月一日起依有關規定辦理。</u>                                                                                                                                                     | <u>中華民國一百十三年二月一日起依有關規定辦理。</u>                                                                                                                                                     |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| （二）壬基酚及壬基酚聚乙氧基醇應於規定期限完成相關事項一覽表                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   | （二） <u>三苯基-<math>\alpha</math>-萘錫（化學文摘社登記號碼81134-67-0）、氟化三丙錫（化學文摘社登記號碼682-32-6）、溴化三甲苯錫（化學文摘社登記號碼58436-46-7）及參（三苯錫）甲烷（化學文摘社登記號碼50485-45-5）應於規定期限完成相關事項一覽表</u> |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| <table><tr><th><div>毒性化學物質</div><div>規定事項</div></th><td>壬基酚（化學文摘社登記號碼25154-52-3、84852-15-3）及壬基酚聚乙氧基醇（化學文摘社登記號碼9016-45-9、26027-38-3）濃度0.1%以上未達5%、壬基酚（除化學文摘社登記號碼25154-52-3、84852-15-3以外）及壬基酚聚乙氧基醇（除化學文摘社登記號碼9016-45-9、26027-38-3以外）規定期限完成事項</td><td>壬基酚（化學文摘社登記號碼25154-52-3、84852-15-3）及壬基酚聚乙氧基醇（化學文摘社登記號碼9016-45-9、26027-38-3）濃度5%以上規定期限完成事項<sup>註</sup></td></tr><tr><td>運作紀錄及釋放量紀錄</td><td><u>自即日起。</u></td><td><u>自即日起。</u></td></tr><tr><td>提報危害預防及應變計畫</td><td><u>中華民國一百十五年三月一日前完成提報。</u></td><td><u>自即日起。</u></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <div>毒性化學物質</div> <div>規定事項</div>                                                                                                                                                 | 壬基酚（化學文摘社登記號碼25154-52-3、84852-15-3）及壬基酚聚乙氧基醇（化學文摘社登記號碼9016-45-9、26027-38-3）濃度0.1%以上未達5%、壬基酚（除化學文摘社登記號碼25154-52-3、84852-15-3以外）及壬基酚聚乙氧基醇（除化學文摘社登記號碼9016-45-9、26027-38-3以外）規定期限完成事項 | 壬基酚（化學文摘社登記號碼25154-52-3、84852-15-3）及壬基酚聚乙氧基醇（化學文摘社登記號碼9016-45-9、26027-38-3）濃度5%以上規定期限完成事項 <sup>註</sup>                                                       | 運作紀錄及釋放量紀錄         | <u>自即日起。</u> | <u>自即日起。</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 提報危害預防及應變計畫         | <u>中華民國一百十五年三月一日前完成提報。</u> | <u>自即日起。</u>        |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| <div>毒性化學物質</div> <div>規定事項</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 壬基酚（化學文摘社登記號碼25154-52-3、84852-15-3）及壬基酚聚乙氧基醇（化學文摘社登記號碼9016-45-9、26027-38-3）濃度0.1%以上未達5%、壬基酚（除化學文摘社登記號碼25154-52-3、84852-15-3以外）及壬基酚聚乙氧基醇（除化學文摘社登記號碼9016-45-9、26027-38-3以外）規定期限完成事項 | 壬基酚（化學文摘社登記號碼25154-52-3、84852-15-3）及壬基酚聚乙氧基醇（化學文摘社登記號碼9016-45-9、26027-38-3）濃度5%以上規定期限完成事項 <sup>註</sup>                                                                            |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 運作紀錄及釋放量紀錄                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>自即日起。</u>                                                                                                                                                                      | <u>自即日起。</u>                                                                                                                                                                      |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |
| 提報危害預防及應變計畫                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>中華民國一百十五年三月一日前完成提報。</u>                                                                                                                                                        | <u>自即日起。</u>                                                                                                                                                                      |                                                                                                                                                              |                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                            |                     |           |                       |             |                   |                         |                     |             |                     |               |                      |                    |                    |           |                      |       |                  |         |                         |                     |                    |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                           |                                                                        |              |              |                          |           |                             |                             |                         |              |                            |             |              |                            |               |              |                            |                    |              |                          |           |              |                            |         |                               |                               |                     |                                 |                                 |           |                               |

|                                                              |                                                                                                                                                                                           |                                                                                                           |                                   |                                                                                                                                       |                                               |  |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--|
| <div>毒性化學物質</div> <div>規定事項</div>                            | 壬基酚（化學文摘社登記號碼 25154-52-3、84852-15-3）及壬基酚聚乙氧基醇（化學文摘社登記號碼 9016-45-9、26027-38-3）濃度 0.1%以上未達 5%、壬基酚（除化學文摘社登記號碼 25154-52-3、84852-15-3 以外）及壬基酚聚乙氧基醇（除化學文摘社登記號碼 9016-45-9、26027-38-3 以外）規定期限完成事項 | 壬基酚（化學文摘社登記號碼 25154-52-3、84852-15-3）及壬基酚聚乙氧基醇（化學文摘社登記號碼 9016-45-9、26027-38-3）濃度 5%以上規定期限完成事項 <sup>註</sup> | <div>毒性化學物質</div> <div>規定事項</div> | 三苯基- $\alpha$ -萘錫（化學文摘社登記號碼 81134-67-0）、氟化三丙錫（化學文摘社登記號碼 682-32-6）、溴化三甲苯錫（化學文摘社登記號碼 58436-46-7）、季（三苯錫）甲烷（化學文摘社登記號碼 50485-45-5）規定期限完成事項 | <div>關化合物、全氟辛酸鹽類與相關化合物，爰增列應於規定期限完成相關事項。</div> |  |
|                                                              | 完成容器、包裝、運作場所及設施之標示並備安全資料表                                                                                                                                                                 | 中華民國一百十五年三月一日前完成改善。                                                                                       |                                   | 運作紀錄及釋放量紀錄。                                                                                                                           |                                               |  |
|                                                              | 運送毒性化學物質                                                                                                                                                                                  | 中華民國一百十五年九月一日前依規定辦理。                                                                                      |                                   | 專業應變人員。                                                                                                                               |                                               |  |
|                                                              | 備緊急應變工具及設備                                                                                                                                                                                | 中華民國一百十五年三月一日前完成提報。                                                                                       |                                   | 依規定取得核可文件。                                                                                                                            |                                               |  |
|                                                              | 提報應變器材、偵測及警報設備之設置及操作計畫                                                                                                                                                                    | 中華民國一百十五年六月一日前完成提報。                                                                                       |                                   | 其他本表未列事項。                                                                                                                             |                                               |  |
|                                                              | 提報聯防組織設立計畫                                                                                                                                                                                | 中華民國一百十五年六月一日前完成。                                                                                         |                                   | <div>（三）全氟己烷磺酸及其鹽類與相關化合物、全氟辛烷磺酸、全氟辛烷磺醯氟、全氟辛烷磺酸鋰鹽、全氟辛酸應於規定期限完成相關事項一覽表</div>                                                            |                                               |  |
|                                                              | 完成偵測及警報設備之設置                                                                                                                                                                              | 中華民國一百十五年九月一日前完成設置。                                                                                       |                                   | 毒性化學物質                                                                                                                                |                                               |  |
|                                                              | 依備查之危害預防及應變計畫內容實施                                                                                                                                                                         | 中華民國一百十五年九月一日起實施。                                                                                         |                                   | 規定事項                                                                                                                                  |                                               |  |
|                                                              | 專業應變人員                                                                                                                                                                                    | 中華民國一百十五年九月一日起完成訓練及登載。                                                                                    |                                   | 運作紀錄及釋放量紀錄。                                                                                                                           |                                               |  |
|                                                              | 責任保險                                                                                                                                                                                      | 自公告日起六個月內完成投保事宜。                                                                                          |                                   | 提報危害預防及應變計畫。                                                                                                                          |                                               |  |
|                                                              | 專業技術管理人員                                                                                                                                                                                  | 中華民國一百十六年三月一日前完成設置。                                                                                       |                                   | 完成容器、包裝、運作場所及設施之標示並備安全資料表。                                                                                                            |                                               |  |
|                                                              | 依規定取得許可證、登記文件或核可文件                                                                                                                                                                        | 中華民國一百十六年三月一日前取得。                                                                                         |                                   | 運送毒性化學物質。                                                                                                                             |                                               |  |
|                                                              | 附表二禁止運作事項                                                                                                                                                                                 | 中華民國一百十六年三月一日起生效。                                                                                         |                                   | 備緊急應變工具及設備。                                                                                                                           |                                               |  |
|                                                              | 附表三得使用用途                                                                                                                                                                                  | 中華民國一百十六年三月一日起生效。                                                                                         |                                   | 提報應變器材、偵測及警報設備之設置及操作計畫。                                                                                                               |                                               |  |
|                                                              | 其他本表未列事項                                                                                                                                                                                  | 中華民國一百十五年三月一日起依有關規定辦理。                                                                                    |                                   | 提報聯防組織設立計畫。                                                                                                                           |                                               |  |
| <div>註：限原已取得許可證、登記文件或核可文件者。</div>                            |                                                                                                                                                                                           |                                                                                                           | 完成偵測及警報設備之設置。                     | 中華民國一百十四年十一月一日前完成設置。                                                                                                                  |                                               |  |
| <div>（三）全氟辛烷磺酸及其鹽類與相關化合物、全氟辛酸及其鹽類與相關化合物應於規定期限完成相關事項一覽表</div> |                                                                                                                                                                                           |                                                                                                           | 依備查之危害預防及應變計畫內容實施。                | 中華民國一百十四年十一月一日起實施。                                                                                                                    |                                               |  |
| <div>毒性化學物質</div> <div>規定事項</div>                            | 全氟辛烷磺酸及其鹽類與相關化合物（除化學文摘社登記號碼 1763-23-1、29457-72-5、307-35-7）、全氟辛酸及其鹽類與相關化合物（除化學文摘社登記號碼 335-67-1）應於規定期限完成相關事項                                                                                |                                                                                                           |                                   | 專業技術管理人員。                                                                                                                             |                                               |  |
|                                                              | 運作紀錄及釋放量紀錄。                                                                                                                                                                               |                                                                                                           |                                   | 責任保險。                                                                                                                                 |                                               |  |
|                                                              | 提報危害預防及應變計畫。                                                                                                                                                                              |                                                                                                           |                                   | 專業應變人員。                                                                                                                               |                                               |  |
|                                                              | 完成容器、包裝、運作場所及                                                                                                                                                                             |                                                                                                           |                                   | 依規定取得許可證、登記文件或核可文件。                                                                                                                   |                                               |  |
|                                                              | 中華民國一百十五年三月一日前完成改善。                                                                                                                                                                       |                                                                                                           |                                   | 其他本表未列事項。                                                                                                                             |                                               |  |

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|-------------------------|------------------------|--|--|
| 設施之標示並備安全資料表。           |                        |  |  |
| 運送毒性化學物質。               | 中華民國一百十五年九月一日前依規定辦理。   |  |  |
| 備緊急應變工具及設備。             | 中華民國一百十五年三月一日前完成提報。    |  |  |
| 提報應變器材、偵測及警報設備之設置及操作計畫。 | 中華民國一百十五年六月一日前完成提報。    |  |  |
| 提報聯防組織設立計畫。             | 中華民國一百十五年六月一日前完成。      |  |  |
| 完成偵測及警報設備之設置。           | 中華民國一百十五年九月一日前完成設置。    |  |  |
| 依備查之危害預防及應變計畫內容實施。      | 中華民國一百十五年九月一日起實施。      |  |  |
| 專業技術管理人員。               | 中華民國一百十五年九月一日前完成設置。    |  |  |
| 責任保險。                   | 自公告日起六個月內完成投保事宜。       |  |  |
| 專業應變人員。                 | 中華民國一百十五年九月一日起完成訓練及登載。 |  |  |
| 依規定取得許可證、登記文件或核可文件。     | 中華民國一百十五年九月一日前取得。      |  |  |
| 其他本表未列事項。               | 自即日起依有關規定辦理。           |  |  |