



# 检测报告

## Test Report

报告编号 A2240552304103003ER1  
Report No. A2240552304103003ER1

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报告抬头公司名称 东莞凯美隆塑料有限公司  
**Company Name** DONG GUAN CHEMERLON PLASTICS CO.,LTD  
**shown on Report**  
地 址 广东省东莞市沙田镇西太隆明珠路 25 号  
**Address** NO.25 PEARL ROAD XITAILONG DISTRICT SHATIAN TOWN DONGGUAN  
GUANGDONG

以下测试之样品及样品信息由申请者提供并确认

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

样品名称 Sample Name 塑胶颗粒 Plastic particles  
样品型号 Model No. 请参见下页。Please refer to the following page(s).  
样品接收日期 2024.09.06  
Sample Received Date Sep. 6, 2024  
样品检测日期 2024.09.06-2024.09.12  
Testing Period Sep. 6, 2024 to Sep. 12, 2024

### 测试内容 Test Conducted:

根据客户的申请要求，具体要求详见下一页。

As requested by the applicant. For details refer to next page(s).

批 准

郑晴涛

日 期

2024.09.20

Approved by

郑晴涛

Date

技术经理 Technical Manager

No. R338852115

华测检测认证集团股份有限公司

广东省深圳市宝安区新安街道兴东社区华测检测大楼

Certified Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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以下测试之样品及样品信息由申请者提供并确认

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

样品型号 Model No. 9010,9011,9012,D2017,D2017BK,D2017 BK020,D2515,D2515BK,D2515 BK020,  
D730,D730BK,D2017NW,D2017B,D2017D,D2017E,T2215,T2215BK,D4015,  
D4015BK,FR865, FR865C,FR865CGL,FR865A,FR865B,D570,D570GL,D555,  
D555GL,D555CGL,D535,D535GL,D535S,D580,D580GL,1030,1030GL,1035,  
1035GL,1045,1045GL,1065,1065GL,1085,D535HF,1016,1019,1001, H6500,  
H4000,H988,H988C,H988T,515SS,515,D515SS,D515,1065A,1065B,1030A,1030B,  
1045A,1045B,H988NW,H988B,H988D,H988E,1055A,1075A,3016,3016GL,  
3016GLNW,3016CGL,3016ZH,3016ZL,3016DL,3016NH,3016S,3016SC,3020,  
3020S,3020M,3020Z,3040,3040GL,3040NH,3040GL,3040S,D302U,D303U,D305U,  
3106,3016NWP,3016NW,3040M15,3040M20,3016M15,3016M20,H6500FR,  
3016SDL,3016F,3020B,3020NH,3016A,3016B,1100,1100S,1100SC,1100M,1100A,  
5052C,5052,5085,1100GL,1100CGL,5982,5982X,5982P,5982Z,5983,5983B,  
5983NW,5983R,5983C,5983P,5983GL,5983S,5983Z,5983X,5983T,5905,5906F,5906,  
C395,C396,C398,503G10,3810,3805,1001G10,1001G20,3001G10,3001G20,  
ABS 20GF+S102G4,PA66 G30%,PA66 21SP,PA6 GF35,PA66 20GF,PA 55%GF,  
ABS 30MP,ABS S106-G30,PC C761M,PC 503G10,PC 1100-IR0079,  
550G20 MIXTURE

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测试摘要 Executive Summary:

| 测试要求<br>TEST REQUEST                                                                                     | 测试结果<br>CONCLUSION         |
|----------------------------------------------------------------------------------------------------------|----------------------------|
| 1) 欧盟持久性有机污染物(POPs)法规(EU) 2019/1021<br>Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) |                            |
| - 多溴二苯醚<br>Polybrominated Diphenyl Ethers (PBDEs)                                                        | 见结果页<br>See test result(s) |
| - 全氟辛烷磺酸(PFOS)及其衍生物<br>Perfluorooctane sulfonic acid (PFOS) and its derivatives                          | 见结果页<br>See test result(s) |
| - 六溴环十二烷<br>Hexabromocyclododecane (HBCDD)                                                               | 见结果页<br>See test result(s) |
| - 短链氯化石蜡<br>Short Chain Chlorinated Paraffins (SCCPs)                                                    | 见结果页<br>See test result(s) |
| - 滴滴涕(1,1,1-三氯-2,2-二(对-氯苯基)乙烷)<br>DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)                   | 见结果页<br>See test result(s) |
| - 氯丹<br>Chlordane                                                                                        | 见结果页<br>See test result(s) |
| - 六氯环己烷, 包括林丹<br>Hexachlorocyclohexanes, including Lindane                                               | 见结果页<br>See test result(s) |
| - 狄氏剂<br>Dieldrin                                                                                        | 见结果页<br>See test result(s) |
| - 异狄氏剂<br>Endrin                                                                                         | 见结果页<br>See test result(s) |
| - 七氯<br>Heptachlor                                                                                       | 见结果页<br>See test result(s) |
| - 硫丹<br>Endosulfan                                                                                       | 见结果页<br>See test result(s) |
| - 十氯酮<br>Chlordecone                                                                                     | 见结果页<br>See test result(s) |
| - 艾氏剂<br>Aldrin                                                                                          | 见结果页<br>See test result(s) |
| - 灭蚁灵<br>Mirex                                                                                           | 见结果页<br>See test result(s) |
| - 毒杀芬<br>Toxaphene                                                                                       | 见结果页<br>See test result(s) |

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|                                                                                                                                |                            |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| - 五氯苯<br>Pentachlorobenzene                                                                                                    | 见结果页<br>See test result(s) |
| - 六氯苯<br>Hexachlorobenzene                                                                                                     | 见结果页<br>See test result(s) |
| - 六溴联苯<br>Hexabromobiphenyl                                                                                                    | 见结果页<br>See test result(s) |
| - 多氯联苯<br>Polychlorinated Biphenyls(PCBs)                                                                                      | 见结果页<br>See test result(s) |
| - 多氯化萘<br>Polychlorinated Naphthalenes (PCNs)                                                                                  | 见结果页<br>See test result(s) |
| - 六氯丁二烯<br>Hexachlorobutadiene (HCBD)                                                                                          | 见结果页<br>See test result(s) |
| - 五氯苯酚及其盐和酯<br>Pentachlorophenol and its salts and esters                                                                      | 见结果页<br>See test result(s) |
| - 全氟辛酸(PFOA)及其盐和相关物质<br>Perfluorooctanoic acid (PFOA) and its salts & related substances                                       | 见结果页<br>See test result(s) |
| - 三氯杀螨醇<br>Dicofol                                                                                                             | 见结果页<br>See test result(s) |
| - 全氟己基磺酸(PFHxS)及其盐和相关物质<br>Perfluorohexane-1-sulphonic acid (PFHxS) and its salts & related substances                         | 见结果页<br>See test result(s) |
| 2) 欧盟提议列入 POPs 公约的物质<br>The substances of EU proposed as POPs                                                                  |                            |
| - 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚(UV-328)<br>2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                               | 见结果页<br>See test result(s) |
| - 得克隆(包括其所有反式和顺式异构体及其组合)<br>Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof) | 见结果页<br>See test result(s) |

\*\*\*\*\*详细结果, 请见下页\*\*\*\*\*

\*\*\*\*\* For further details, please refer to the following page(s) \*\*\*\*\*

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### 1) 欧盟持久性有机污染物(POPs)法规(EU) 2019/1021 Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)

#### ▼ 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)

测试方法: IEC 62321-6:2015; 测试仪器: GC-MS

Test Method: IEC 62321-6:2015; Test Equipment: GC-MS

| 测试项目 Tested Item(s)               | 结果 Result (mg/kg) | 方法检出限 MDL (mg/kg) |
|-----------------------------------|-------------------|-------------------|
|                                   | 003               |                   |
| 四溴二苯醚<br>Tetrabromodiphenyl ether | N.D.              | 5                 |
| 五溴二苯醚<br>Pentabromodiphenyl ether | N.D.              | 5                 |
| 六溴二苯醚<br>Hexabromodiphenyl ether  | N.D.              | 5                 |
| 七溴二苯醚<br>Heptabromodiphenyl ether | N.D.              | 5                 |
| 十溴二苯醚<br>Decabromodiphenyl ether  | N.D.              | 5                 |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

#### ▼ 全氟辛烷磺酸(PFOS)及其衍生物 Perfluorooctane sulfonic acid (PFOS) and its derivatives<sup>#</sup>

测试方法: EN 17681-1:2022&EN 17681-2:2022; 测试仪器: LC-MS-MS & GC-MS

Test Method: EN 17681-1:2022&EN 17681-2:2022; Test Equipment: LC-MS-MS & GC-MS

| 序号<br>No. | 测试项目 Tested Item(s)                                                  | CAS No.    | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------|----------------------------------------------------------------------|------------|-------------------|----------------------|---------------------|
|           |                                                                      |            | 003               |                      |                     |
| 1         | 全氟辛基磺酸<br>Perfluorooctanesulfonic acid (PFOS)                        | 1763-23-1  | N.D.              | 0.010                | --                  |
| 2         | 全氟辛基磺酸钠 Sodium<br>perfluorooctane sulfonate<br>(PFOS-Na)*            | 4021-47-0  | N.D.              | 0.010                | --                  |
| 3         | 全氟辛基磺酸钾<br>Perfluorooctanesulfonic acid,<br>potassium salt (PFOS-K)* | 2795-39-3  | N.D.              | 0.020                | --                  |
| 4         | 全氟辛基磺酸锂<br>Perfluorooctanesulfonic acid, lithium<br>salt (PFOS-Li)*  | 29457-72-5 | N.D.              | 0.010                | --                  |

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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                      | CAS No.      | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------|--------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|----------------------|---------------------|
|           |                                                                                                                          |              | 003               |                      |                     |
| 5         | 全氟辛基磺酸镁 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, magnesium salt (2:1) (PFOS-Mg)*           | 91036-71-4   | N.D.              | 0.020                | --                  |
| 6         | 全氟辛基磺酸铵 Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )*                                             | 29081-56-9   | N.D.              | 0.010                | --                  |
| 7         | 全氟辛基磺酸二乙醇铵 Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )*                                    | 70225-14-8   | N.D.              | 0.020                | --                  |
| 8         | 全氟辛基磺酸四乙基铵 Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )* | 56773-42-3   | N.D.              | 0.020                | --                  |
| 9         | 全氟辛烷磺酸四丁基铵 Tetrabutylammonium perfluorooctanesulfonate (PFOS-NH(C <sub>16</sub> H <sub>36</sub> ))*                      | 111873-33-7  | N.D.              | 0.015                | --                  |
| 10        | 全氟辛基磺酸二癸二甲基铵 Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-DDA)*                                             | 251099-16-8  | N.D.              | 0.020                | --                  |
| 11        | 全氟辛基磺酰氟 Perfluoro-1-octanesulfonyl fluoride (PFOSF)*                                                                     | 307-35-7     | N.D.              | 0.010                | --                  |
| 12        | 全氟辛基磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate*                                        | 71463-74-6   | N.D.              | 0.020                | --                  |
| 13        | 全氟辛基磺酸四甲基铵 Tetramethylammonium perfluorooctane sulfonate (PFOS-C <sub>4</sub> H <sub>12</sub> N)*                        | 56773-44-5   | N.D.              | 0.010                | --                  |
| 14        | 全氟辛基磺酸二乙胺 Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)*                        | 2205029-08-7 | N.D.              | 0.010                | --                  |
| 15        | 全氟辛基磺酸三乙胺 Triethylammonium perfluorooctane sulfonate (PFOS-C <sub>6</sub> H <sub>15</sub> N)*                            | 54439-46-2   | N.D.              | 0.010                | --                  |
| 16        | 全氟辛基磺酸三丁基甲基胺 N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (PFOS-C <sub>13</sub> H <sub>30</sub> N)* | 124472-68-0  | N.D.              | 0.015                | --                  |
| 17        | 全氟辛基磺酸戊基(三丙基)胺 N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (PFOS-C <sub>14</sub> H <sub>32</sub> N)*   | 56773-56-9   | N.D.              | 0.015                | --                  |

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|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|----------------------|---------------------|
|           |                                                                                                                                                                                                         |              | 003               |                      |                     |
| 18        | 全氟辛基磺酸四丁基膦<br>Tetrabutylphosphonium<br>perfluorooctane sulfonate<br>(PFOS-C <sub>16</sub> H <sub>36</sub> P)*                                                                                           | 2185049-59-4 | N.D.              | 0.015                | --                  |
| 19        | 全氟辛基磺酸庚基二甲基-[2-(2-甲<br>基丙-2-烯酰氧基)乙基]胺<br>Heptyldimethyl{2-[(2-methylprop-2-<br>enoyl)oxy]ethyl}azanium<br>heptadecafluorooctane-1-sulfonate<br>(PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )* | 1203998-97-3 | N.D.              | 0.015                | --                  |
| 20        | 全氟辛基磺酸双[4-(1,1-二甲基乙<br>基)苯基]-碘鎓 Iodonium, bis[4-<br>(1,1-dimethylethyl)phenyl]-, salt with<br>perfluoro-1-octanesulfonic acid (1:1)<br>(PFOS-C <sub>20</sub> H <sub>26</sub> I)*                        | 213740-80-8  | N.D.              | 0.020                | --                  |
| 21        | 全氟辛基磺酸二苯基(2,4,6-三甲<br>苯基)硫 Diphenyl(2,4,6-<br>trimethylphenyl)sulfonium perfluoro-<br>1-octanesulfonate (PFOS-C <sub>21</sub> H <sub>21</sub> S)*                                                       | 258341-99-0  | N.D.              | 0.020                | --                  |
| 22        | 全氟辛基磺酸十六烷基吡啶<br>1-Hexadecylpyridinium perfluoro-<br>1-octanesulfonate (PFOS-C <sub>21</sub> H <sub>38</sub> N)*                                                                                         | 334529-63-4  | N.D.              | 0.020                | --                  |
| 23        | 全氟辛基磺酸酐 Perfluorooctane<br>sulfonic anhydride (PFOSAN)*                                                                                                                                                 | 423-92-7     | N.D.              | 0.020                | --                  |
| 24        | N,N,N-三乙基癸-1-胺十七氟辛烷-1-<br>磺酸盐<br>N,N,N-Triethyldecan-1-aminium<br>heptadecafluorooctane-1-sulfonate<br>(PFOS-C <sub>16</sub> H <sub>36</sub> N)*                                                        | 773895-92-4  | N.D.              | 0.020                | --                  |
| 25        | 全氟辛烷磺酸盐<br>Perfluorooctanesulfonate<br>(PFOS (anion))*                                                                                                                                                  | 45298-90-6   | N.D.              | 0.010                | --                  |
| 26        | 氟虫胺 N-Ethylperfluoro-1-<br>octanesulfonamide (N-Et-FOSA)                                                                                                                                                | 4151-50-2    | N.D.              | 0.050                | --                  |
| 27        | 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七<br>氟-N-甲基-辛磺酰胺 N-<br>Methylperfluoro-1-octanesulfonamide<br>(N-Me-FOSA)                                                                                            | 31506-32-8   | N.D.              | 0.050                | --                  |
| 28        | N-乙基全氟辛基磺酰胺乙醇 2-(N-<br>Ethylperfluoro-1-octanesulfonamido)-<br>ethanol (N-Et-FOSE)                                                                                                                      | 1691-99-2    | N.D.              | 0.050                | --                  |
| 29        | 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七<br>氟-N-(2-羟乙基)-N-甲基-1-辛基磺<br>酰胺 2-(N-Methylperfluoro-1-<br>octanesulfonamido)-ethanol<br>(N-Me-FOSE)                                                               | 24448-09-7   | N.D.              | 0.050                | --                  |

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|-----------|------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|----------------------|---------------------|
|           |                                                                                                                              |             | 003               |                      |                     |
| 30        | 全氟辛基磺酰胺 Perfluorooctane sulfonamide (PFOSA)                                                                                  | 754-91-6    | N.D.              | 0.010                | --                  |
| 31        | 全氟辛基磺酰胺锂盐(1:1) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)*                                                     | 76752-79-9  | N.D.              | 0.010                | --                  |
| 32        | 全氟辛基磺酰胺钠盐(1:1) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)*                                                      | 76752-78-8  | N.D.              | 0.010                | --                  |
| 33        | 全氟辛基磺酰胺钾盐(1:1) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)*                                                    | 76752-70-0  | N.D.              | 0.010                | --                  |
| 34        | 全氟辛基磺酰胺铵盐(1:1) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH <sub>4</sub> )*                                      | 76752-72-2  | N.D.              | 0.010                | --                  |
| 35        | 全氟辛基磺酰胺三乙胺 Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)* | 76752-82-4  | N.D.              | 0.010                | --                  |
| 36        | 全氟辛烷磺酰氨基乙酸 Glycine, N-[(heptadecafluorooctyl)sulfonyl]- (FOSAA)                                                              | 2806-24-8   | N.D.              | 0.010                | --                  |
| 37        | 全氟辛烷磺酰氨基乙酸钾 N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)*                                              | 75260-69-4  | N.D.              | 0.010                | --                  |
| 38        | 全氟辛烷磺酰氨基乙酸钠 N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)*                                                | 115716-87-5 | N.D.              | 0.010                | --                  |
| 39        | 全氟辛烷磺酰氨基乙酸盐 N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA (anion))*                                                           | 909405-47-6 | N.D.              | 0.010                | --                  |
| 40        | N-(十七氟辛基磺酰基)-N-甲基甘氨酸 N-Methyl perfluorooctanesulfonamidoacetic acid (N-Me-FOSAA)                                             | 2355-31-9   | N.D.              | 0.050                | --                  |
| 41        | N-(十七氟辛基磺酰基)-N-甲基甘氨酸钾 Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)*                        | 70281-93-5  | N.D.              | 0.050                | --                  |
| 42        | N-(十七氟辛基磺酰基)-N-甲基甘氨酸盐 2-(N-Methylperfluorooctanesulfonamido) acetate (N-Me-FOSAA (anion))*                                   | 909405-48-7 | N.D.              | 0.050                | --                  |



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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                | CAS No.     | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------|--------------------------------------------------------------------------------------------------------------------|-------------|-------------------|----------------------|---------------------|
|           |                                                                                                                    |             | 003               |                      |                     |
| 43        | N-乙基-N-((十七氟辛基)磺酰基)甘氨酸 N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]glycine (N-Et-FOSAA)                             | 2991-50-6   | N.D.              | 0.050                | --                  |
| 44        | N-乙基-N-[(十七烷氟辛基)磺酰基]-甘氨酸钾盐 Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)*    | 2991-51-7   | N.D.              | 0.050                | --                  |
| 45        | N-乙基-N-((十七氟辛基)磺酰基)甘氨酸钠 Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)*                       | 3871-50-9   | N.D.              | 0.050                | --                  |
| 46        | N-乙基-N-((十七氟辛基)磺酰基)甘氨酸铵 Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH <sub>4</sub> )*       | 2991-52-8   | N.D.              | 0.050                | --                  |
| 47        | N-乙基-N-((十七氟辛基)磺酰基)甘氨酸盐 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA (anion))*                        | 909405-49-8 | N.D.              | 0.050                | --                  |
| 48        | 双(2-全氟辛基磺酰基-N-氨乙基)磷酸 Bis[2-[N-ethyl (heptadecafluorooctanesulphonyl) amino]ethyl]hydrogen phosphate (EtFOSEdiPAPs) | 2965-52-8   | N.D.              | 0.050                | --                  |
| 49        | 总和 Total                                                                                                           | --          | N.D.              | --                   | 10                  |

### 备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- \*该物质的结果由其特定化合物的结果换算而来。

Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

- 根据欧盟持久性有机污染物(POPs)法规(EU) 2019/1021, 全氟辛烷磺酸(PFOS)及其衍生物被定义为一类化学物质, 但法规中并未给出物质清单。结论是根据所测试的项目含量得出的。

According to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Perfluorooctane sulfonic acid (PFOS) and its derivatives are defined as a class of chemicals. There is not an official list in the regulation. The conclusion is based on the tested chemicals.

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## ▼ 六溴环十二烷 Hexabromocyclododecane (HBCDD) #

测试方法: 参考 US EPA 3550C:2007 &amp; US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 &amp; US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s)                         | CAS No.                                                              | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------------------------------|----------------------------------------------------------------------|-------------------|----------------------|---------------------|
|                                             |                                                                      | 003               |                      |                     |
| 六溴环十二烷<br>Hexabromocyclododecane<br>(HBCDD) | 25637-99-4<br>3194-55-6<br>134237-50-6<br>134237-51-7<br>134237-52-8 | N.D.              | 5                    | 100                 |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- “六溴环十二烷(HBCDD)”指: 六溴环十二烷(HBCDD)、1,2,5,6,9,10-六溴环十二烷及其非对映异构体 ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD)  
'Hexabromocyclododecane (HBCDD)' means: Hexabromocyclododecane (HBCDD), 1,2,5,6,9,10-hexabromocyclododecane and its main diastereoisomers:  $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD

## ▼ 短链氯化石蜡 Short Chain Chlorinated Paraffins (SCCPs) #

测试方法: 参考 US EPA 3550C:2007 &amp; US EPA 8270E:2018; 测试仪器: GC-MS(NCI)

Test Method: Refer to US EPA 3550C:2007 &amp; US EPA 8270E:2018; Test Equipment: GC-MS(NCI)

| 测试项目 Tested Item(s)                                 | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------------------------------------------------|-------------------|----------------------|---------------------|
|                                                     | 003               |                      |                     |
| 短链氯化石蜡 Short Chain<br>Chlorinated Paraffins (SCCPs) | N.D.              | 100                  | 10000               |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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## ▼ 滴滴涕(1,1,1-三氯-2,2-二(对-氯苯基)乙烷) DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane) #

测试方法: 参考 US EPA 3550C:2007 &amp; US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 &amp; US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s)                                                                  | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|--------------------------------------------------------------------------------------|-------------------|----------------------|---------------------|
|                                                                                      | 003               |                      |                     |
| 滴滴涕(1,1,1-三氯-2,2-二(对-氯苯基)乙烷)<br>DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane) | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

## ▼ 氯丹 Chlordane#

测试方法: 参考 US EPA 3550C:2007 &amp; US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 &amp; US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 氯丹 Chlordane        | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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### ▼ 六氯环己烷, 包括林丹 Hexachlorocyclohexanes, including Lindane<sup>#</sup>

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s)                                         | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-------------------------------------------------------------|-------------------|----------------------|---------------------|
|                                                             | 003               |                      |                     |
| 六氯环己烷, 包括林丹<br>Hexachlorocyclohexanes, including<br>Lindane | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

### ▼ 狄氏剂 Dieldrin<sup>#</sup>

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 狄氏剂 Dieldrine       | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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▼ 异狄氏剂 Endrin<sup>#</sup>

测试方法：参考 US EPA 3550C:2007 & US EPA 8270E:2018；测试仪器：GC-MS  
Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 异狄氏剂 Endrine        | N.D.              | 5                    | N.D.                |

- 备注 Remark:
- MDL = 方法检出限 Method Detection Limit
  - N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
  - mg/kg = ppm = 百万分之一 parts per million

▼ 七氯 Heptachlor<sup>#</sup>

测试方法：参考 US EPA 3550C:2007 & US EPA 8270E:2018；测试仪器：GC-MS  
Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 七氯 Heptachlor       | N.D.              | 5                    | N.D.                |

- 备注 Remark:
- MDL = 方法检出限 Method Detection Limit
  - N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
  - mg/kg = ppm = 百万分之一 parts per million

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▼ 硫丹 Endosulfan<sup>#</sup>

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 硫丹 Endosulfan       | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ 十氯酮 Chlordane<sup>#</sup>

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 十氯酮 Chlordane       | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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▼ 艾氏剂 Aldrin<sup>#</sup>

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 艾氏剂 Aldrine         | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

## ▼ 灭蚁灵 Mirex

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 灭蚁灵 Mirex           | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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▼ **毒杀芬 Toxaphene<sup>#</sup>**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 毒杀芬 Toxaphene       | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **五氯苯 Pentachlorobenzene<sup>#</sup>**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s)    | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|------------------------|-------------------|----------------------|---------------------|
|                        | 003               |                      |                     |
| 五氯苯 Pentachlorobenzene | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million



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▼ 六氯苯 Hexachlorobenzene<sup>#</sup>

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s)   | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------------------|-------------------|----------------------|---------------------|
|                       | 003               |                      |                     |
| 六氯苯 Hexachlorobenzene | N.D.              | 5                    | 10                  |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ 六溴联苯 Hexabromobiphenyl

测试方法: IEC 62321-6:2015; 测试仪器: GC-MS

Test Method: IEC 62321-6:2015; Test Equipment: GC-MS

| 测试项目 Tested Item(s)    | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|------------------------|-------------------|----------------------|---------------------|
|                        | 003               |                      |                     |
| 六溴联苯 Hexabromobiphenyl | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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▼ **多氯联苯 Polychlorinated Biphenyls(PCBs)** #

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s)                     | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------------------------------------|-------------------|----------------------|---------------------|
|                                         | 003               |                      |                     |
| 多氯联苯<br>Polychlorinated Biphenyls(PCBs) | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **多氯化萘 Polychlorinated Naphthalenes (PCNs)** #

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s)                         | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------------------------------|-------------------|----------------------|---------------------|
|                                             | 003               |                      |                     |
| 多氯化萘<br>Polychlorinated Naphthalenes (PCNs) | N.D.              | 5                    | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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## ▼ 六氯丁二烯 Hexachlorobutadiene (HCBd) #

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s)       | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------------|-------------------|----------------------|---------------------|
|                           | 003               |                      |                     |
| 六氯丁二烯 Hexachlorobutadiene | N.D.              | 20                   | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

## ▼ 五氯苯酚及其盐和酯 Pentachlorophenol and its salts and esters#

测试方法: 参考 ISO 17070:2015; 测试仪器: GC-MS

Test Method: Refer to ISO 17070:2015; Test Equipment: GC-MS

| 测试项目 Tested Item(s)                                        | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|------------------------------------------------------------|-------------------|----------------------|---------------------|
|                                                            | 003               |                      |                     |
| 五氯苯酚及其盐和酯<br>Pentachlorophenol and its salts and<br>esters | N.D.              | 1                    | 5                   |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- 五氯苯酚及其盐和酯的结果以五氯苯酚计。

The test result of Pentachlorophenol and its salts and esters is calculated by Pentachlorophenol.

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### ▼ 全氟辛酸(PFOA)及其盐和相关物质 Perfluorooctanoic acid (PFOA) and its salts & related substances<sup>#</sup>

测试方法: EN 17681-1:2022&EN 17681-2:2022; 测试仪器: LC-MS-MS & GC-MS

Test Method: EN 17681-1:2022&EN 17681-2:2022; Test Equipment: LC-MS-MS & GC-MS

| 序号<br>No. | 测试项目 Tested Item(s)                                                                                             | CAS No.     | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------|-----------------------------------------------------------------------------------------------------------------|-------------|-------------------|----------------------|---------------------|
|           |                                                                                                                 |             | 003               |                      |                     |
| 1         | 全氟辛酸 Perfluorooctanoic acid (PFOA)                                                                              | 335-67-1    | N.D.              | 0.010                | --                  |
| 2         | 全氟辛酸铵 Ammonium pentadecafluorooctanoate (APFO)*                                                                 | 3825-26-1   | N.D.              | 0.010                | --                  |
| 3         | 全氟辛酸钠 Sodium perfluorooctanoate (PFOA-Na)*                                                                      | 335-95-5    | N.D.              | 0.020                | --                  |
| 4         | 全氟辛酸钾 Potassium perfluorooctanoate (PFOA-K)*                                                                    | 2395-00-8   | N.D.              | 0.020                | --                  |
| 5         | 全氟辛酸银 Silver perfluorooctanoate (PFOA-Ag)*                                                                      | 335-93-3    | N.D.              | 0.020                | --                  |
| 6         | 全氟辛氟 Perfluorooctanoyl fluoride (PFOA-F)*                                                                       | 335-66-0    | N.D.              | 0.010                | --                  |
| 7         | 全氟辛酸锂 Lithium perfluorooctanoate (PFOA-Li)*                                                                     | 17125-58-5  | N.D.              | 0.010                | --                  |
| 8         | 全氟辛酸铯 Cesium perfluorooctanoate (PFOA-Cs)*                                                                      | 17125-60-9  | N.D.              | 0.020                | --                  |
| 9         | 全氟辛酸钴 Cobalt perfluorooctanoate (PFOA-Co)*                                                                      | 35965-01-6  | N.D.              | 0.025                | --                  |
| 10        | 全氟辛酸铬 Chromium(III) perfluorooctanoate (PFOA-Cr)*                                                               | 68141-02-6  | N.D.              | 0.025                | --                  |
| 11        | 全氟辛酸四乙基铵<br>N,N,N-Triethylethanaminium perfluorooctanoate (PFOA-NH(C <sub>8</sub> H <sub>19</sub> ))*           | 98241-25-9  | N.D.              | 0.015                | --                  |
| 12        | 全氟辛酸四丙基铵<br>Tetrapropylammonium perfluorooctanoate (PFOA-NH(C <sub>12</sub> H <sub>27</sub> ))*                 | 277749-00-5 | N.D.              | 0.015                | --                  |
| 13        | 全氟辛酸 N,N,N-三甲基甲烷<br>Perfluorooctanoate N,N,N-Trimethylmethanaminium (PFOA-NH(C <sub>4</sub> H <sub>11</sub> ))* | 32609-65-7  | N.D.              | 0.015                | --                  |
| 14        | 全氟辛酸-哌嗪<br>Pentadecafluorooctanoic acid-piperazine (2/1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> N))*           | 423-52-9    | N.D.              | 0.015                | --                  |
| 15        | 全氟辛酸钾水合物 Potassium pentadecafluorooctanoate-water (1/1/2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )*             | 98065-31-7  | N.D.              | 0.010                | --                  |

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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                   | CAS No.      | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------|-----------------------------------------------------------------------------------------------------------------------|--------------|-------------------|----------------------|---------------------|
|           |                                                                                                                       |              | 003               |                      |                     |
| 16        | 全氟辛酸乙胺 Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)*                    | 1376936-03-6 | N.D.              | 0.010                | --                  |
| 17        | 全氟辛酸吡啶 Pentadecafluorooctanoic acid-pyridine (1/1) (PFOA-C <sub>5</sub> H <sub>5</sub> N)*                            | 95658-47-2   | N.D.              | 0.010                | --                  |
| 18        | 全氟辛酸苯基哌嗪 Pentadecafluorooctanoic acid-1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )* | 1514-68-7    | N.D.              | 0.015                | --                  |
| 19        | 全氟辛酸辛基三甲基铵 N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C <sub>11</sub> H <sub>26</sub> N)*          | 927835-01-6  | N.D.              | 0.015                | --                  |
| 20        | 全氟辛酸盐 Pentadecafluorooctanoate (anion) (PFOA (anion))*                                                                | 45285-51-6   | N.D.              | 0.010                | --                  |
| 21        | 全氟辛酸(PFOA)及其盐 Perfluorooctanoic acid (PFOA) and its salts                                                             | -            | N.D.              | --                   | 0.025               |
| 22        | 全氟辛酸酐 Perfluorooctanoic Anhydride (PFOAA)*                                                                            | 33496-48-9   | N.D.              | 0.020                | 1                   |
| 23        | 全氟辛酸甲酯 Methyl perfluorooctanoate (Me-PFOA)                                                                            | 376-27-2     | N.D.              | 0.010                | 1                   |
| 24        | 全氟辛酸乙酯 Ethyl perfluorooctanoate (Et-PFOA)                                                                             | 3108-24-5    | N.D.              | 0.010                | 1                   |
| 25        | 全氟正辛基碘烷 Perfluorooctyl iodide (PFOI)                                                                                  | 507-63-1     | N.D.              | 0.200                | 1                   |
| 26        | 1H,1H,2H,2H-全氟-1-癸醇 1H,1H,2H,2H-perfluoro-1-decanol (8:2 FTOH)                                                        | 678-39-7     | N.D.              | 0.200                | 1                   |
| 27        | 1H,1H,2H,2H-全氟癸磺酸 1H,1H,2H,2H-perfluorodecane sulfonic acid (8:2 FTS)                                                 | 39108-34-4   | N.D.              | 0.200                | 1                   |
| 28        | 1H,1H,2H,2H-全氟癸磺酸钠 1H,1H,2H,2H-Perfluorodecanesulfonic Acid Sodium (8:2 FTS-Na)*                                      | 27619-96-1   | N.D.              | 0.200                | 1                   |
| 29        | 1H,1H,2H,2H-全氟癸磺酸钾 Potassium 2-(perfluorooctyl)ethane-1-sulfonate (8:2 FTS-K)*                                        | 438237-73-1  | N.D.              | 0.200                | 1                   |
| 30        | 1H,1H,2H,2H-全氟癸磺酸铵 8:2 Fluorotelomer sulfonate ammonium salt (8:2 FTS-NH <sub>4</sub> )*                              | 149724-40-3  | N.D.              | 0.200                | 1                   |

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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                                                              | CAS No.      | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|----------------------|---------------------|
|           |                                                                                                                                                                  |              | 003               |                      |                     |
| 31        | 1H,1H,2H,2H-全氟癸磺酸盐<br>2-(Perfluorooctyl)ethane-1-<br>sulfonate (8:2 FTS (anion))*                                                                                | 481071-78-7  | N.D.              | 0.200                | 1                   |
| 32        | 丙烯酸 1H,1H,2H,2H-十七氟癸酯<br>1,1,2,2-Tetrahydroperfluorodecyl<br>acrylate (8:2 FTAC)                                                                                 | 27905-45-9   | N.D.              | 0.200                | 1                   |
| 33        | 2-(全氟辛基)乙基甲基丙烯酸酯<br>2-Propenoic acid, 2-methyl-,<br>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-<br>heptadecafluorodecyl ester<br>(8:2 FTMA)                            | 1996-88-9    | N.D.              | 0.200                | 1                   |
| 34        | 1H,1H,2H,2H-全氟癸基三乙氧基<br>硅烷 1H,1H,2H,2H-<br>Perfluorodecyltriethoxysilane<br>(PFSI)                                                                               | 101947-16-4  | N.D.              | 0.200                | 1                   |
| 35        | 1-碘-1H,1H,2H,2H-全氟癸烷<br>Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,<br>7,7,8,8- heptadecafluoro-10-iodo-<br>(8:2 FTI)                                                     | 2043-53-0    | N.D.              | 0.200                | 1                   |
| 36        | 双(2-(全氟乙基))磷酸<br>8:2 Fluorotelomer phosphate diester<br>(8:2diPAP)                                                                                               | 678-41-1     | N.D.              | 0.200                | 1                   |
| 37        | 双(2-(全氟乙基))磷酸钠<br>Sodium bis(1H,1H,2H,2H-<br>perfluorodecyl)phosphate<br>(8:2diPAP-Na)*                                                                          | 114519-85-6  | N.D.              | 0.200                | 1                   |
| 38        | 双(2-(全氟乙基))磷酸铵<br>Ammonium bis(1H,1H,2H,2H-<br>perfluorodecyl)phosphate<br>(8:2diPAP-NH <sub>4</sub> )*                                                          | 93776-20-6   | N.D.              | 0.200                | 1                   |
| 39        | 双(2-(全氟乙基))磷酸二乙醇胺<br>Bis(2-hydroxyethyl)ammonium<br>bis((perfluorooctyl)ethyl) hydrogen<br>phosphate (8:2diPAP-C <sub>4</sub> H <sub>11</sub> NO <sub>2</sub> )* | 57677-97-1   | N.D.              | 0.200                | 1                   |
| 40        | 双(2-(全氟乙基))磷酸盐<br>8:2 Fluorotelomer phosphate diester<br>ion (1-) (8:2diPAP (anion))*                                                                            | 1411713-91-1 | N.D.              | 0.200                | 1                   |
| 41        | 四丁基磷 2H,2H-全氟癸酸酯<br>Tetrabutylphosphonium 2H,2H-<br>Perfluorodecanoate<br>(H <sub>2</sub> PFDA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                  | 882489-14-7  | N.D.              | 0.010                | 1                   |
| 42        | 2H,2H,3H,3H-全氟十一酸<br>2H,2H,3H,3H-Perfluoroundecanoic<br>acid (H <sub>4</sub> PFUnA)                                                                              | 34598-33-9   | N.D.              | 0.010                | 1                   |

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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                                                        | CAS No.    | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|----------------------|---------------------|
|           |                                                                                                                                                            |            | 003               |                      |                     |
| 43        | 3-(全氟辛基)丙酸钾 Potassium 3-(perfluorooctyl)propanoate (H <sub>4</sub> PFUnA-K)*                                                                               | 83310-58-1 | N.D.              | 0.020                | 1                   |
| 44        | 2H,2H,3H,3H-全氟十一酸锂 Lithium 3-(perfluorooctyl)propanoate (H <sub>4</sub> PFUnA-Li)*                                                                         | 67304-23-8 | N.D.              | 0.010                | 1                   |
| 45        | 2H,2H-全氟癸酸 2H,2H-Perfluorodecanoate (H <sub>2</sub> PFDA)                                                                                                  | 27854-31-5 | N.D.              | 0.010                | 1                   |
| 46        | 全氟辛基乙烯 1-Decene,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- (PFOE)                                                                               | 21652-58-4 | N.D.              | 0.200                | 1                   |
| 47        | 全氟癸基三氯硅烷 Perfluorooctylethyltrichlorosilane (FDTs)                                                                                                         | 78560-44-8 | N.D.              | 0.200                | 1                   |
| 48        | 全氟癸基三甲氧硅烷 Perfluorooctylethyltrimethoxysilane (FDTMOS)                                                                                                     | 83048-65-1 | N.D.              | 0.200                | 1                   |
| 49        | 双[2-(全氟癸基)乙基]磷酸酯 Bis[2-(perfluorodecyl)ethyl] Phosphate (10:2 diPAP)                                                                                       | 1895-26-7  | N.D.              | 0.200                | 1                   |
| 50        | 2,2'-亚氨基二乙醇双[2-(全氟癸基)乙基]磷酸盐 Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C <sub>4</sub> H <sub>11</sub> O <sub>2</sub> )* | 57677-98-2 | N.D.              | 0.200                | 1                   |
| 51        | 十七氟-1-癸醇磷酸二氢酯 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl dihydrogen phosphate (8:2 monoPAPS)                                                | 57678-03-2 | N.D.              | 0.200                | 1                   |
| 52        | 8:2 氟调聚物磷酸单酯钠盐 Sodium 1H,1H,2H,2H-perfluorodecyl phosphate (8:2 monoPAPS-Na)*                                                                              | 92678-93-8 | N.D.              | 0.200                | 1                   |
| 53        | 2H-全氟-2-癸烯酸 2H-Perfluoro-2-decenoic acid (8:2 FTUCA)                                                                                                       | 70887-84-2 | N.D.              | 0.010                | 1                   |
| 54        | C8-14-全氟烷基乙醇 Alcohols, C8-14, gamma-omega-perfluoro (C8-14-PFEOH)                                                                                          | 68391-08-2 | N.D.              | 0.200                | 1                   |
| 55        | 2-全氟辛基乙基乙酸酯 1H,1H,2H,2H-Perfluorodecyl acetate (8:2FTOAc)                                                                                                  | 37858-04-1 | N.D.              | 0.200                | 1                   |
| 56        | 全氟辛酸(PFOA)相关物质 Perfluorooctanoic acid (PFOA) related substances                                                                                            | -          | N.D.              | --                   | 1                   |

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备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- \*该物质的结果由其特定化合物的结果换算而来。

Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

- 根据欧盟持久性有机污染物(POPs)法规(EU) 2019/1021, 全氟辛酸(PFOA)及其盐和相关物质被定义为一类化学物质, 但法规中并未给出物质清单。结论是根据所测试的项目含量得出的。

According to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Perfluorooctanoic acid (PFOA) and its salts & related substances are defined as a class of chemicals. There is not an official list in the regulation. The conclusion is based on the tested chemicals.

### ▼ 三氯杀螨醇 Dicofol<sup>#</sup>

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s) | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|---------------------|-------------------|----------------------|---------------------|
|                     | 003               |                      |                     |
| 三氯杀螨醇 Dicofol       | N.D.              | 0.05                 | N.D.                |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

### ▼ 全氟己基磺酸(PFHxS)及其盐和相关物质 Perfluorohexane-1-sulphonic acid (PFHxS) and its salts & related substances<sup>#</sup>

测试方法: EN 17681-1:2022&EN 17681-2:2022; 测试仪器: LC-MS-MS & GC-MS

Test Method: EN 17681-1:2022&EN 17681-2:2022; Test Equipment: LC-MS-MS & GC-MS

| 序号<br>No. | 测试项目 Tested Item(s)                                                                              | CAS No.    | 结果 Result (mg/kg) | 方法检出限<br>MDL (mg/kg) | 限值 Limit<br>(mg/kg) |
|-----------|--------------------------------------------------------------------------------------------------|------------|-------------------|----------------------|---------------------|
|           |                                                                                                  |            | 003               |                      |                     |
| 1         | 全氟己基磺酸 Perfluorohexanesulfonic acid (PFHxS)                                                      | 355-46-4   | N.D.              | 0.010                | --                  |
| 2         | 全氟己基磺酸钠 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt (PFHxS-Na)* | 82382-12-5 | N.D.              | 0.020                | --                  |



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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                                                                                                                                                                                                                     | CAS No.     | 结果 Result (mg/kg) | 方法检出限       | 限值 Limit |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|-------------|----------|
|           |                                                                                                                                                                                                                                                                                                                         |             | 003               | MDL (mg/kg) | (mg/kg)  |
| 3         | 全氟己基磺酸钾 Potassium perfluorohexane-1-sulphonate (PFHxS-K)*                                                                                                                                                                                                                                                               | 3871-99-6   | N.D.              | 0.020       | --       |
| 4         | 全氟己基磺酸锂 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt(1:1) (PFHxS-Li)*                                                                                                                                                                                                                   | 55120-77-9  | N.D.              | 0.010       | --       |
| 5         | 全氟己基磺酸锌 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)*                                                                                                                                                                                                                           | 70136-72-0  | N.D.              | 0.025       | --       |
| 6         | 全氟己基磺酸镓盐(9CI)<br>1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI) (PFHxS-Ga)*                                                                                                                                                                                                        | 341035-71-0 | N.D.              | 0.010       | --       |
| 7         | 全氟己基磺酸钪盐(3:1)<br>1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)*                                                                                                                                                                                                   | 350836-93-0 | N.D.              | 0.010       | --       |
| 8         | 全氟己基磺酸钕盐(3:1)<br>1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)*                                                                                                                                                                                                  | 41184-65-0  | N.D.              | 0.010       | --       |
| 9         | 全氟己基磺酸钇盐(3:1)<br>1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)*                                                                                                                                                                                                      | 41242-12-0  | N.D.              | 0.010       | --       |
| 10        | 全氟己基磺酸铯 Cesium Perfluorohexanesulfonate (PFHxS-Cs)*                                                                                                                                                                                                                                                                     | 92011-17-1  | N.D.              | 0.020       | --       |
| 11        | 全氟己基磺酸铵 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt (1:1) (PFHxS-NH <sub>4</sub> )*                                                                                                                                                                                                   | 68259-08-5  | N.D.              | 0.010       | --       |
| 12        | 全氟己基磺酰氯<br>1,1,2,2,3,3,4,4,5,5,6,6,6-Tridecafluorohexane-1-sulphonyl chloride (PFHxS-Cl)*                                                                                                                                                                                                                               | 55591-23-6  | N.D.              | 0.020       | --       |
| 13        | 全氟己烷磺酸盐<br>Perfluorohexylsulfonate (PFHxS(anion))*                                                                                                                                                                                                                                                                      | 108427-53-8 | N.D.              | 0.010       | --       |
| 14        | (二-4,1-苯撑硫)双二苯基硫与<br>1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸(1:2)的盐 Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with<br>1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2) (PFHxS-S <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> (C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> ))* | 421555-73-9 | N.D.              | 0.020       | --       |

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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                                                                                                                                                                                                                    | CAS No.     | 结果 Result (mg/kg) | 方法检出限       | 限值 Limit |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|-------------|----------|
|           |                                                                                                                                                                                                                                                                                                                        |             | 003               | MDL (mg/kg) | (mg/kg)  |
| 15        | 二[4-(1,1-二甲基丙基)苯基]碘与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸的盐 Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic (PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>5</sub> H <sub>11</sub> ) <sub>2</sub> )*                                   | 421555-74-0 | N.D.              | 0.020       | --       |
| 16        | 三[4-(1,1-二甲基乙基)苯基]硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯 Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C <sub>6</sub> H <sub>4</sub> ) <sub>3</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> )*                                        | 425670-70-8 | N.D.              | 0.020       | --       |
| 17        | 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸锌与 N,N-二乙基乙胺(1:1) 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )*                                                                                                 | 72033-41-1  | N.D.              | 0.020       | --       |
| 18        | 二[(1,1-二甲基乙基)苯基]碘与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸的盐(1:1) (9CI) Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI) (PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )*             | 866621-50-3 | N.D.              | 0.020       | --       |
| 19        | (4-甲基苯基)二苯基硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>7</sub> H <sub>7</sub> )*                                                                   | 910606-39-2 | N.D.              | 0.020       | --       |
| 20        | [4-[(2-甲基-1-氧代-2-丙烯-1-基)氧基]苯基]二苯基硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>10</sub> H <sub>9</sub> O <sub>2</sub> )* | 911027-68-4 | N.D.              | 0.020       | --       |

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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CAS No.      | 结果 Result (mg/kg) | 方法检出限       | 限值 Limit |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|-------------|----------|
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | 003               | MDL (mg/kg) | (mg/kg)  |
| 21        | [4-[(2-甲基-1-氧代-2-丙烯基)氧基]苯基]二苯硫与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸的盐与 2-乙基三环[3.3.1.13,7]癸-2-甲基-2-丙烯酸酯、3-羟基三环[3.3.1.13,7]癸-2-甲基-2-丙烯酸酯和四氢呋喃-2-甲基-2-丙烯酸酯的聚合物 Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate,3-hydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate* | 911027-69-5  | N.D.              | 0.020       | --       |
| 22        | 二苯并[k,n][1,4,7,10,13]四氧硫酰氯代十六烷基铵,19-[4-(1,1-二甲基乙基)苯基]-6,7,9,10,12,13-六氢-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-SC <sub>28</sub> H <sub>31</sub> O <sub>4</sub> )*                                                                                                                                    | 928049-42-7  | N.D.              | 0.020       | --       |
| 23        | 三苯基(苯甲基)膦-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1) Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-P(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> C <sub>7</sub> H <sub>7</sub> )*                                                                                                                                                                                                                                                   | 1000597-52-3 | N.D.              | 0.020       | --       |
| 24        | N,N,N-三丁基-1-丁胺与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸的盐 1-Butanaminium, N,N,N-tributyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (PFHxS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )*                                                                                                                                                                                                                                                                             | 108427-54-9  | N.D.              | 0.020       | --       |
| 25        | N,N,N-三乙基乙胺与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸(1:1)的盐 Ethanaminium,N,N,N-triethyl-,salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )*                                                                                                                                                                                                                                                                         | 108427-55-0  | N.D.              | 0.020       | --       |

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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                                                                                                                                                                                                                                                                                                | CAS No.      | 结果 Result (mg/kg) | 方法检出限       | 限值 Limit |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|-------------|----------|
|           |                                                                                                                                                                                                                                                                                                                                                                                                    |              | 003               | MDL (mg/kg) | (mg/kg)  |
| 26        | 吡咯烷与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三<br>氟-1-己基磺酸(1:1)的盐<br>1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,<br>5,5,6,<br>6,6-tridecafluoro-, compd. with<br>pyrrolidine (1:1) (PFHxS-NC <sub>4</sub> H <sub>9</sub> )*                                                                                                                                                                                          | 1187817-57-7 | N.D.              | 0.020       | --       |
| 27        | 三苯基硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三<br>氟-1-己基磺酸酯(1:1) Sulfonium,<br>triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-<br>tridecafluoro-1-hexanesulfonate (1:1)<br>(PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> )*                                                                                                                                                                                      | 144116-10-9  | N.D.              | 0.020       | --       |
| 28        | 1-(羧甲基)-4-[2-[4-[4-(2,2-二苯基乙<br>烯基)苯基]-1,2,3,3a,4,8b-六氢旋流器戊<br>烷[b]吡啶-7-基]乙烯基]喹啉-十三氟<br>-1-己基磺酸酯(1:1) Quinolinium,1-<br>(carboxymethyl)-4-[2-[4-[4-(2,2-diphen<br>ylethenyl)phenyl]-1,2,3,3a,4,8b-hexahyd<br>rocyclopent[b]indol-7-yl]ethenyl]-,<br>1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-<br>hexanesulfonate (1:1)<br>(PFHxS-C <sub>44</sub> H <sub>37</sub> N <sub>2</sub> O <sub>2</sub> )* | 1462414-59-0 | N.D.              | 0.020       | --       |
| 29        | 二苯基碘-1,1,2,2,3,3,4,4,5,5,6,6,6-十三<br>氟-1-己基磺酸酯(1:1) Iodonium,<br>diphenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-<br>tridecafluoro-1-hexanesulfonate (1:1)<br>(PFHxS-I(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> )*                                                                                                                                                                                         | 153443-35-7  | N.D.              | 0.020       | --       |
| 30        | N,N,N-三甲基甲胺与 1,1,2,2,3,3,4,4,<br>5,5,6,6,6-十三氟-1-己基磺酸(1:1)的盐<br>Methanaminium,N,N,N-trimethyl-,salt<br>with 1,1,2,2,3,3,4,4,5,5,6,6,6-<br>tridecafluoro-1-hexanesulfonic acid<br>(1:1) (PFHxS-N(CH <sub>3</sub> ) <sub>4</sub> )*                                                                                                                                                                  | 189274-31-5  | N.D.              | 0.020       | --       |
| 31        | 2-甲基-2-丙胺与 1,1,2,2,3,3,4,4,5,5,<br>6,6,6-十三氟-1-己基磺酸(1:1)的盐<br>1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,<br>5,5,6,6,6-tridecafluoro-, compd. with<br>2-methyl-2-propanamine (1:1)<br>(PFHxS-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>3</sub> )*                                                                                                                                                        | 202189-84-2  | N.D.              | 0.020       | --       |
| 32        | 二[4-(1,1-二甲基乙基)苯基]碘-1,1,2,2,<br>3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯<br>(1:1) Iodonium, bis[4-(1,1-<br>dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,<br>5,5,6,6,6-tridecafluoro-1-<br>hexanesulfonate (1:1)<br>(PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )*                                                                                          | 213740-81-9  | N.D.              | 0.020       | --       |

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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                                                                                                                                                                                                                                                                                                 | CAS No.      | 结果 Result (mg/kg) | 方法检出限       | 限值 Limit |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|-------------|----------|
|           |                                                                                                                                                                                                                                                                                                                                                                                                     |              | 003               | MDL (mg/kg) | (mg/kg)  |
| 33        | 二(4-甲基苯基)苯基硫-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1)<br>Sulfonium, bis(4-methylphenyl)phenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)<br>(PFHxS-S(C <sub>7</sub> H <sub>7</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> )*                                                                                                                                          | 341548-85-4  | N.D.              | 0.020       | --       |
| 34        | N-[4-[[4-(二乙氨基)苯基][4-(乙氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-乙基乙胺-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1)<br>Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)<br>(PFHxS-(NC <sub>10</sub> H <sub>14</sub> ) <sub>3</sub> C <sub>5</sub> H <sub>4</sub> )*   | 1310480-24-0 | N.D.              | 0.020       | --       |
| 35        | N-[4-[[4-(二甲氨基)苯基][4-(乙氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基甲铵-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1)<br>Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>13</sub> H <sub>12</sub> )*  | 1310480-27-3 | N.D.              | 0.020       | --       |
| 36        | N-[4-[[4-(二甲氨基)苯基][4-(苯氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基甲铵-1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸酯(1:1)<br>Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>17</sub> H <sub>12</sub> )* | 1310480-28-4 | N.D.              | 0.020       | --       |
| 37        | β-环糊精与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸根(1-)(1:1)形成的化合物 Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)<br>(PFHxS-C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> )*                                                                                                                                                                  | 1329995-45-0 | N.D.              | 0.020       | --       |

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| 序号<br>No. | 测试项目 Tested Item(s)                                                                                                                                                                                                              | CAS No.      | 结果 Result (mg/kg) | 方法检出限       | 限值 Limit |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|-------------|----------|
|           |                                                                                                                                                                                                                                  |              | 003               | MDL (mg/kg) | (mg/kg)  |
| 38        | γ-环糊精与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸根(1-)(1:1)形成的化合物 Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-C <sub>48</sub> H <sub>80</sub> O <sub>40</sub> )* | 1329995-69-8 | N.D.              | 0.020       | --       |
| 39        | 2,2'-亚氨基二乙醇与 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己基磺酸(1:1)形成的化合物 Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFHxS-NH(C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub> )*                               | 70225-16-0   | N.D.              | 0.020       | --       |
| 40        | 全氟己基磺酸四丁基磷 Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )*                                                                                                              | 2310194-12-6 | N.D.              | 0.020       | --       |
| 41        | 全氟己基磺酸(PFHxS)及其盐 Perfluorohexane-1-sulphonic acid (PFHxS) and its salts                                                                                                                                                          | --           | N.D.              | --          | 0.025    |
| 42        | 全氟己基磺酰氟 1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (PFHxSF)*                                                                                                                                            | 423-50-7     | N.D.              | 0.010       | --       |
| 43        | 全氟己基磺酰胺 1-Hexane-sulfonamide,1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro- (FHxSA)                                                                                                                                                   | 41997-13-1   | N.D.              | 0.010       | --       |
| 44        | N-甲基全氟己烷磺酰胺 N-methylperfluorohexanesulfonamide (MeFHxSA)                                                                                                                                                                         | 68259-15-4   | N.D.              | 0.100       | --       |
| 45        | 全氟己基磺酸(PFHxS)相关物质 Perfluorohexane-1-sulphonic acid (PFHxS) related substances                                                                                                                                                    | --           | N.D.              | --          | 1        |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- \*该物质的结果由其特定化合物的结果换算而来。

Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

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## 2) 欧盟提议列入 POPs 公约的物质 The substances of EU proposed as POPs

## ▼ 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328) #

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

| 测试项目 Tested Item(s)                                                                   | 结果 Result (mg/kg) | 方法检出限       |
|---------------------------------------------------------------------------------------|-------------------|-------------|
|                                                                                       | 003               | MDL (mg/kg) |
| 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚<br>2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328) | N.D.              | 0.3         |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

## ▼ 得克隆(包括其所有反式和顺式异构体及其组合) Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof) #

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS(NCI)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS(NCI)

| 测试项目 Tested Item(s)                                                                                                       | 结果 Result (mg/kg) | 方法检出限       |
|---------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|
|                                                                                                                           | 003               | MDL (mg/kg) |
| 得克隆(包括其所有反式和顺式异构体及其组合) Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof) | N.D.              | 1           |

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

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### 样品/部位描述 Sample/Part Description

| 序号  | CTI 样品 ID     | 描述                                                                           |
|-----|---------------|------------------------------------------------------------------------------|
| No. | CTI Sample ID | Description                                                                  |
| 1   | 003           | 混测, 黑色, 白色和浅灰色塑料颗粒<br>Mixed test, black, white and light grey plastic grains |

### 注释 Note:

- 根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。  
As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.
- “#” 表示该项目/方法不在 CNAS 认可范围内。  
indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.
- 本报告于原报告(报告编号 A2240552304103003E)基础上修改了“样品型号”。本报告替换原报告 A2240552304103003E, 自本报告签发之日起, 原报告 A2240552304103003E 作废。  
This testing report revised “Model No.” based on the original report of No. A2240552304103003E. This testing report displaces the original one which was invalid since the date of this testing report released.
- 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。  
The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.



# 检测报告 Test Report

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## 样品图片

## Photo(s) of the sample(s)



### 声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;  
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;  
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;  
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定; Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经 CTI 书面同意, 不得部分复制本报告;  
Without written approval of CTI, this report can't be reproduced except in full;
6. 如检测报告中的英文内容与中文内容有差异, 以中文为准。  
In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

\*\*\* 报告结束 \*\*\*  
\*\*\* End of Report \*\*\*