

## 检测报告

编号: SHAEC26027481014

日期: 2026 年 09 月 14 日

第 1 页, 共 14 页

客户名称: 捷捷微电(南通)科技有限公司  
客户地址: 江苏省南通市苏锡通科技产业园区井冈山路 1 号

样品名称: MOS  
以上样品及信息由客户提供。

SGS 工作编号: SHP26-034211  
样品接收时间: 2026 年 09 月 07 日  
检测周期: 2026 年 09 月 07 日 ~ 2026 年 09 月 14 日  
检测要求: 根据客户要求检测。  
检测方法: 见后续页。  
检测结果: 见后续页。

| 检测要求                                 | 结论 |
|--------------------------------------|----|
| 欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规 | 符合 |

通标标准技术服务(上海)有限公司  
授权签名

盛雯舒

Sue Sheng 盛雯舒  
批准签署人

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## 检测结果:

## 检测部件外观描述:

| 样品序号 | 样品编号 | SGS 样品 ID               | 样品描述 |
|------|------|-------------------------|------|
| SN1  | A1   | SHA26-0274810-0001.C001 | 彩色固体 |

## 备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检出限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

## 欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规

检测方法: SGS 内部方法-采用 GC-MS 或 GC-MS/MS、GC-NCI-MS, GC-ECD 和 HPLC-DAD-MS 或 LC-MS/MS 进行分析。

| 检测项目                                     | CAS No.           | 限值    | 单位    | MDL   | A1 |
|------------------------------------------|-------------------|-------|-------|-------|----|
| 四溴二苯醚 (TetraBDE)                         | 40088-47-9<br>和其它 | -     | mg/kg | 5     | ND |
| 五溴二苯醚 (PentaBDE)                         | 32534-81-9<br>和其它 | -     | mg/kg | 5     | ND |
| 六溴二苯醚 (HexaBDE)                          | 36483-60-0<br>和其它 | -     | mg/kg | 5     | ND |
| 七溴二苯醚 (HeptaBDE)                         | 68928-80-3<br>和其它 | -     | mg/kg | 5     | ND |
| 十溴二苯醚 (DecaBDE)                          | 1163-19-5         | -     | mg/kg | 5     | ND |
| 多溴二苯醚总和*                                 | -                 | 10    | mg/kg | -     | ND |
| 全氟辛酸磺酸 (PFOS), 及其盐^                      | 1763-23-1         | 0.025 | mg/kg | 0.010 | ND |
| N-乙基全氟辛酸磺酰胺 (N-EtFOSA)                   | 4151-50-2         | -     | mg/kg | 0.010 | ND |
| N-甲基全氟辛酸磺酰胺 (N-MeFOSA)                   | 31506-32-8        | -     | mg/kg | 0.010 | ND |
| 2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)             | 1691-99-2         | -     | mg/kg | 0.010 | ND |
| 2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)             | 24448-09-7        | -     | mg/kg | 0.010 | ND |
| 全氟辛基磺酰胺 (PFOSA), 及其盐^                    | 754-91-6          | -     | mg/kg | 0.010 | ND |
| N-(全氟-1-辛烷磺酰基)甘氨酸 (FOSAA), 及其盐^          | 2806-24-8         | -     | mg/kg | 0.010 | ND |
| N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA), 及其盐^ | 2355-31-9         | -     | mg/kg | 0.010 | ND |
| N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-EtFOSAA), 及其盐^ | 2991-50-6         | -     | mg/kg | 0.010 | ND |
| 2-(N-乙基全氟辛酸磺酰胺基)丙烯酸乙酯 (EtFOSAC)          | 423-82-5          | -     | mg/kg | 0.200 | ND |
| PFOS 相关化合物总和                             | -                 | 1     | mg/kg | -     | ND |



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| 检测项目                                                                      | CAS No.                                                                  | 限值    | 单位    | MDL   | A1 |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------|-------|-------|-------|----|
| 4,4-滴滴涕                                                                   | 50-29-3                                                                  | 禁用    | mg/kg | 0.05  | ND |
| 氯丹                                                                        | 57-74-9                                                                  | 禁用    | mg/kg | 0.05  | ND |
| 六氯环己烷,包括林丹                                                                | 58-89-9,<br>319-84-6,<br>319-85-7,<br>608-73-1                           | 禁用    | mg/kg | 0.05  | ND |
| 狄氏剂                                                                       | 60-57-1                                                                  | 禁用    | mg/kg | 0.05  | ND |
| 异狄氏剂                                                                      | 72-20-8                                                                  | 禁用    | mg/kg | 0.05  | ND |
| 七氯                                                                        | 76-44-8                                                                  | 禁用    | mg/kg | 0.05  | ND |
| 硫丹                                                                        | 115-29-7,<br>959-98-8,<br>33213-65-9                                     | 禁用    | mg/kg | 0.05  | ND |
| 六氯苯                                                                       | 118-74-1                                                                 | 10    | mg/kg | 5     | ND |
| 十氯酮                                                                       | 143-50-0                                                                 | 禁用    | mg/kg | 0.2   | ND |
| 艾氏剂                                                                       | 309-00-2                                                                 | 禁用    | mg/kg | 0.05  | ND |
| 五氯苯                                                                       | 608-93-5                                                                 | 禁用    | mg/kg | 5     | ND |
| 多氯联苯 (PCBs)                                                               | 1336-36-3<br>和其它                                                         | 禁用    | mg/kg | 0.2   | ND |
| 灭蚁灵                                                                       | 2385-85-5                                                                | 禁用    | mg/kg | 0.05  | ND |
| 毒杀芬                                                                       | 8001-35-2                                                                | 禁用    | mg/kg | 0.2   | ND |
| 六溴联苯                                                                      | 36355-01-8                                                               | 禁用    | mg/kg | 5     | ND |
| 六溴环十二烷(HBCDD) 及其非对映异构体( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 134237-50-6,<br>134237-51-7,<br>134237-52-8,<br>25637-99-4,<br>3194-55-6 | 75    | mg/kg | 20    | ND |
| 六氯丁二烯                                                                     | 87-68-3                                                                  | 禁用    | mg/kg | 5     | ND |
| 五氯苯酚(PCP)及其盐和酯                                                            | 87-86-5<br>和其它                                                           | 5     | mg/kg | 0.5   | ND |
| 多氯萘(PCNs)                                                                 | 70776-03-3<br>和其它                                                        | 禁用    | mg/kg | 5     | ND |
| C <sub>10</sub> -C <sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)                       | 85535-84-8<br>和其它                                                        | 1500  | mg/kg | 50    | ND |
| 全氟辛酸 (PFOA), 及其盐 <sup>^</sup>                                             | 335-67-1                                                                 | 0.025 | mg/kg | 0.010 | ND |
| 1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS), 及其盐 <sup>^</sup>                            | 39108-34-4                                                               | 1     | mg/kg | 0.010 | ND |
| 全氟辛酸甲酯 (Me-PFOA)                                                          | 376-27-2                                                                 | 1     | mg/kg | 0.200 | ND |
| 全氟辛酸乙酯 (Et-PFOA)                                                          | 3108-24-5                                                                | 1     | mg/kg | 0.200 | ND |
| 1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA)                                            | 27905-45-9                                                               | 1     | mg/kg | 0.100 | ND |
| 1H,1H,2H,2H-甲基丙烯酸全氟癸酯 (8:2 FTMA)                                          | 1996-88-9                                                                | 1     | mg/kg | 0.100 | ND |
| 全氟辛基碘烷 (PFOI)                                                             | 507-63-1                                                                 | 1     | mg/kg | 0.200 | ND |
| 2H, 2H-全氟癸酸 (8:2 FTCA), 及其盐 <sup>^</sup>                                  | 27854-31-5                                                               | 1     | mg/kg | 0.010 | ND |
| 1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)                                            | 678-39-7                                                                 | 1     | mg/kg | 0.100 | ND |
| 1-碘-1H,1H,2H,2H-全氟癸烷 (8:2 FTI)                                            | 2043-53-0                                                                | 1     | mg/kg | 0.100 | ND |



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| 检测项目                                                                                                                   | CAS No.                   | 限值    | 单位    | MDL   | A1 |
|------------------------------------------------------------------------------------------------------------------------|---------------------------|-------|-------|-------|----|
| 1H,1H,2H,2H-全氟癸基三乙氧基硅烷 (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                                       | 101947-16-4               | 1     | mg/kg | 0.100 | ND |
| 双[2-(全氟辛基)]乙基磷酸酯(8:2diPAP), 及其盐^                                                                                       | 678-41-1                  | 1     | mg/kg | 0.010 | ND |
| 2H, 2H, 3H, 3H-全氟十一烷酸 (8:3 FTCA), 及其盐^                                                                                 | 34598-33-9                | 1     | mg/kg | 0.010 | ND |
| 全氟辛基乙烯 (PFDE)                                                                                                          | 21652-58-4                | 1     | mg/kg | 0.100 | ND |
| 3-全氟庚基丙酸 (7:3 FTCA)                                                                                                    | 812-70-4                  | 1     | mg/kg | 0.010 | ND |
| 1H,1H,2H,2H-全氟癸基三氯硅烷 (8:2 FTSiCl <sub>3</sub> )/<br>1H,1H,2H,2H-全氟癸基三甲氧基硅烷 (8:2 FTSi(OCH <sub>3</sub> ) <sub>3</sub> ) | 78560-44-8<br>/83048-65-1 | 1     | mg/kg | 0.100 | ND |
| 2H-全氟-2-癸烯酸 (8:2 FTUCA)                                                                                                | 70887-84-2                | 1     | mg/kg | 0.010 | ND |
| 6:8 全氟次膦酸 (6:8 PFPI)                                                                                                   | 610800-34-5               | 1     | mg/kg | 0.010 | ND |
| 8:8 全氟次膦酸 (8:8 PFPI), 及其盐^                                                                                             | 40143-79-1                | 1     | mg/kg | 0.010 | ND |
| 1H,1H,2H,2H-全氟十二烷基乙酸酯(8:2 FTOAc)                                                                                       | 37858-04-1                | 1     | mg/kg | 0.100 | ND |
| 单[2-(全氟辛基)乙基]磷酸盐 (8:2 monoPAP), 及其盐^                                                                                   | 57678-03-2                | 1     | mg/kg | 0.100 | ND |
| 1H,1H,2H,2H-全氟-1-十二烷醇 (10:2 FTOH)                                                                                      | 865-86-1                  | 1     | mg/kg | 0.100 | ND |
| 1,1,2,2-四氢全氟-1-十四醇 (12:2 FTOH)                                                                                         | 39239-77-5                | 1     | mg/kg | 0.100 | ND |
| 1H,1H,2H,2H-全氟十二烷磺酸 (10:2 FTS), 及其盐^                                                                                   | 120226-60-0               | 1     | mg/kg | 0.100 | ND |
| 双[2-(全氟癸基)乙基]磷酸盐 (10:2 diPAP), 及其盐^                                                                                    | 1895-26-7                 | 1     | mg/kg | 0.100 | ND |
| 2H-全氟-2-十二烯酸 (10:2 FTUCA)                                                                                              | 70887-94-4                | 1     | mg/kg | 0.010 | ND |
| 2-全氟癸基乙酸 (10:2 FTCA)                                                                                                   | 53826-13-4                | 1     | mg/kg | 0.010 | ND |
| 单[2-(全氟癸基)乙基]磷酸酯 (10:2 monoPAP), 及其盐^                                                                                  | 57678-05-4                | 1     | mg/kg | 0.100 | ND |
| 1H,1H,2H,2H-全氟十二烷基丙烯酸酯 (10:2 FTA)                                                                                      | 17741-60-5                | 1     | mg/kg | 0.100 | ND |
| 1H,1H,2H,2H-全氟十二烷基甲基丙烯酸酯 (10:2 FTMA)                                                                                   | 2144-54-9                 | 1     | mg/kg | 0.100 | ND |
| 全氟癸基乙基碘 (10:2 FTI)                                                                                                     | 2043-54-1                 | 1     | mg/kg | 0.100 | ND |
| 1H,1H,2H,2H-全氟十四烷基碘 (12:2 FTI)                                                                                         | 30046-31-2                | 1     | mg/kg | 0.100 | ND |
| 1-碘全氟癸烷 (PFDI)                                                                                                         | 423-62-1                  | 1     | mg/kg | 0.100 | ND |
| 全氟碘代十二烷 (PFDODI)                                                                                                       | 307-60-8                  | 1     | mg/kg | 0.100 | ND |
| PFOA 相关化合物总和                                                                                                           | -                         | 1     | mg/kg | -     | ND |
| 三氯杀螨醇                                                                                                                  | 115-32-2                  | 禁用    | mg/kg | 0.05  | ND |
| 全氟己基磺酸 (PFHxS), 及其盐^                                                                                                   | 355-46-4                  | 0.025 | mg/kg | 0.010 | ND |
| N-甲基全氟-1-己磺酰胺 (N-Me-PFHxSA)                                                                                            | 68259-15-4                | 1     | mg/kg | 0.010 | ND |
| 全氟己烷磺酰胺 (PFHxSA)                                                                                                       | 41997-13-1                | 1     | mg/kg | 0.010 | ND |



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|-----------------------------------------------------|--------------------------------------------|------|-------|-------|----|
| N-[3-(二甲基氨基)丙基]十三氟己烷磺酰胺 (N-AP-FHxSA)                | 50598-28-2                                 | 1    | mg/kg | 0.010 | ND |
| 2-[甲基[(十三氟己基)磺酰基]氨基]乙基丙烯酸酯 (N-MeFHSEA)              | 67584-57-0                                 | 1    | mg/kg | 0.200 | ND |
| 2-[甲基[(十三氟己基)磺酰基]氨基]乙基甲基丙烯酸酯                        | 67584-61-6                                 | 1    | mg/kg | 0.200 | ND |
| 2-[乙基[(十三氟己基)磺酰基]氨基]乙基甲基丙烯酸酯                        | 67906-70-1                                 | 1    | mg/kg | 0.200 | ND |
| 十三氟-N-(2-羟基乙基)-N-甲基己烷磺酰胺 (MeFHxSE)                  | 68555-75-9                                 | 1    | mg/kg | 0.010 | ND |
| N-乙基-N-[(十三氟己基)磺酰基]甘氨酸 (EtFHxSAA), 及其盐 <sup>1</sup> | 68957-32-4                                 | 1    | mg/kg | 0.010 | ND |
| PFHxS 相关化合物总和                                       | -                                          | 1    | mg/kg | -     | ND |
| 甲氧滴滴涕                                               | 72-43-5<br>和其它                             | 0.01 | mg/kg | 0.01  | ND |
| UV-328                                              | 25973-55-1                                 | 100  | mg/kg | 1     | ND |
| 得克隆 (DP)                                            | 13560-89-9<br>/135821-03-3<br>/135821-74-8 | 1000 | mg/kg | 1     | ND |
| 结论                                                  | 符合                                         |      |       |       |    |

## 备注:

- (1) 欧盟POPs法规(EU) 2019/1021, 附录I 中的物质禁用在混合物及物品中使用, 除非法规有特殊豁免。
- (2) 多溴二苯醚总和\*是指四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚的总和。
- (3) 豁免: RoHS指令(2011/65/EU)定义的电子电器产品中四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚豁免于POPs法规。
- (4) 依据欧盟POPs法规(EU) 2019/1021附录I及其修正法规 (EU) 2025/1482, 为加强《持久性有机污染物重新预测条例》的应用和执行, 当化学物质存在于物质、混合物和物品中时, 为5种多溴联苯醚(PBDE)(四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚、十溴二苯醚)阻燃剂设定了无意痕量污染物(UTC)值。

针对混合物<sup>1</sup>、物品<sup>1</sup>

| 中间用途或其他规范的特殊豁免  | 生效日期       |
|-----------------|------------|
| ≤ 10 mg/kg (总和) | 2025.11.17 |

针对含有回收材料或由回收材料制成的混合物或物品<sup>1</sup>

| 中间用途或其他规范的特殊豁免   | 生效日期       |
|------------------|------------|
| ≤ 500 mg/kg (总和) | 2025.11.17 |
| ≤ 350 mg/kg (总和) | 2025.12.30 |
| ≤ 200 mg/kg (总和) | 2027.12.30 |

针对以下产品含有回收材料或由回收材料制成:

-玩具<sup>1</sup>, <sup>2</sup>-方便儿童就座、睡眠、放松、卫生、更衣和一般身体护理、喂养、吮吸、运输和保护的产品<sup>1</sup>

| 中间用途或其他规范的特殊豁免 | 生效日期 |
|----------------|------|
|----------------|------|



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## 检测报告

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|                  |            |
|------------------|------------|
| ≤ 500 mg/kg (总和) | 2025.11.17 |
| ≤ 350 mg/kg (总和) | 2025.12.30 |
| ≤ 10 mg/kg (总和)  | 2027.5.17  |

<sup>1</sup>豁免受(EC) No 1935/2004法规管控的食品接触材料<sup>2</sup>2009/48/EC指令范围内的玩具

- (5) 豁免: C10-13 氯代烃(短链氯化石蜡)在混合物中的法规限值是1.0% (w/w),在物品中的法规限值为0.15% (w/w)。
- (6) 豁免: HBCDD 做为无意添加的微量污染物, 在物质, 混合物, 物品或者物品的阻燃剂中不能超出 75mg/kg, 委员会应在2026年1月1日前审查和评估规定的豁免。
- (7) 依据欧盟POPs法规 (EU) 2019/1021 附录I 及其修正法规 (EU) 2025/718, 在物质, 混合物或物品中, 全氟辛烷磺酸 (PFOS)及其盐的浓度等于或低于0.025 mg/kg(0,0000025 %), PFOS相关化合物总和的浓度等于或低于1 mg/kg(0,0001%), 适用日期: 2025年12月3日起。
- (8) ^=物质是指下表PFOS, PFOA和PFOA相关化合物列出的盐/衍生物。

| 物质名称                                                                                                              | CAS No.     |
|-------------------------------------------------------------------------------------------------------------------|-------------|
| <b>PFOS, 及其盐&amp;衍生物</b>                                                                                          |             |
| 全氟辛烷磺酸(PFOS)                                                                                                      | 1763-23-1   |
| 全氟辛基磺酸钾(PFOS-K)                                                                                                   | 2795-39-3   |
| 全氟辛基磺酸锂(PFOS-Li)                                                                                                  | 29457-72-5  |
| 全氟辛基磺酸钠(PFOS-Na)                                                                                                  | 4021-47-0   |
| 全氟辛基磺酸铵(PFOS-NH <sub>4</sub> )                                                                                    | 29081-56-9  |
| 全氟辛基磺酸二乙醇铵(PFOS-NH <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )                                 | 70225-14-8  |
| 全氟辛基磺酸四乙基铵(PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )                                                  | 56773-42-3  |
| 全氟辛基磺酸二癸二甲基铵(PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> )              | 251099-16-8 |
| 全氟辛基磺酸四丁基铵(PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                  | 111873-33-7 |
| 全氟辛基磺酰氟(PFOS-F)                                                                                                   | 307-35-7    |
| 双[十七氟辛烷磺酸]镁(PFOS-Mg)                                                                                              | 91036-71-4  |
| 全氟辛烷磺酸吡啶                                                                                                          | 71463-74-6  |
| 全氟辛烷磺酸盐                                                                                                           | 45298-90-6  |
| 全氟辛烷磺酸三乙基铵(PFOS-NH(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                                                 | 54439-46-2  |
| 全氟辛烷磺酸四甲基铵(PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )                                                                | 56773-44-5  |
| N, N, N-三丙基戊烷-1-七氟辛烷-1-磺酸铵(PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> )) | 56773-56-9  |
| N, N-二丁基-N-甲基丁烷-1-胺十七氟辛烷-1-磺酸酯(PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))            | 124472-68-0 |
| 双[4-(1,1-二甲基乙基)苯基]-碘鎓与全氟-1-辛烷磺酸的盐 (1:1)                                                                           | 213740-80-8 |



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| 全氟-1-辛烷磺酸二苯基(2,4,6-三甲基苯基)铈                                                                | 258341-99-0  |
| 全氟-1-辛烷磺酸1-十六烷基吡啶鎓                                                                        | 334529-63-4  |
| N,N,N-三乙基癸-1-胺十七氟辛烷-1-磺酸盐                                                                 | 773895-92-4  |
| 全氟辛烷磺酸四丁基磷 (PFOS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                        | 2185049-59-4 |
| 全氟辛基磺酸二乙胺 (PFOS-C <sub>4</sub> H <sub>11</sub> N)                                         | 2205029-08-7 |
| 全氟辛基磺酸庚基二甲基-[2-(2-甲基丙-2-烯酰氧基)乙基]胺 (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> ) | 1203998-97-3 |
| 全氟辛基磺酸酐(PFOSAN)                                                                           | 423-92-7     |
| 全氟辛基磺酰氯(PFOS-Cl)                                                                          | 423-60-9     |
| <b>FOSAA, 及其盐</b>                                                                         |              |
| N-(全氟-1-辛烷磺酰基)甘氨酸(FOSAA)                                                                  | 2806-24-8    |
| 全氟辛烷磺酰氨基乙酸盐 (FOSAA(anion))                                                                | 909405-47-6  |
| 全氟辛烷磺酰氨基乙酸钾 (FOSAA-K)                                                                     | 75260-69-4   |
| 全氟辛烷磺酰氨基乙酸钠 (FOSAA-Na)                                                                    | 115716-87-5  |
| <b>N-MeFOSAA, 及其盐</b>                                                                     |              |
| N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA)                                                        | 2355-31-9    |
| N-(十七氟辛基磺酰基)-N-甲基甘氨酸盐 (N-Me-FOSAA(anion))                                                 | 909405-48-7  |
| N-(十七氟辛基磺酰基)-N-甲基甘氨酸钾 (N-Me-FOSAA-K)                                                      | 70281-93-5   |
| 六氯环己烷(N-甲基-(N-(全氟辛基磺酰)甘氨酸根-O1:O1'))二羟基三铬                                                  | 97298-47-0   |
| <b>N-EtFOSAA, 及其盐</b>                                                                     |              |
| N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸(N-EtFOSAA)                                                         | 2991-50-6    |
| N-乙基-N-[(十七烷氟辛基)磺酰基]-甘氨酸钾盐 (N-Et-FOSAA-K)                                                 | 2991-51-7    |
| N-乙基-N-((十七氟辛基)磺酰基)甘氨酸盐 (N-Et-FOSAA(anion))                                               | 909405-49-8  |
| N-乙基-N-((十七氟辛基)磺酰基)甘氨酸铵 (N-Et-FOSAA-NH <sub>4</sub> )                                     | 2991-52-8    |
| N-乙基-N-((十七氟辛基)磺酰基)甘氨酸钠 (N-Et-FOSAA-Na)                                                   | 3871-50-9    |
| 二水四氯[μ-[N-乙基-N-[(全氟辛基)磺酰]甘氨酸根-O1:O1]]-μ-羟基双[2-甲基丙醇]二铬                                     | 68891-96-3   |
| <b>PFOSA, 及其盐</b>                                                                         |              |
| 全氟辛基磺酰胺(PFOSA)                                                                            | 754-91-6     |
| 全氟辛基磺酰胺锂盐(1:1)(PFOSA-Li)                                                                  | 76752-79-9   |
| 全氟辛基磺酰胺钠盐 (1:1) (PFOSA-Na)                                                                | 76752-78-8   |
| 全氟辛基磺酰胺钾盐 (1:1) (PFOSA-K)                                                                 | 76752-70-0   |
| 全氟辛基磺酰胺铵盐 (1:1) (PFOSA-NH <sub>4</sub> )                                                  | 76752-72-2   |
| 全氟辛基磺酰胺三乙胺 (PFOSA-C <sub>6</sub> H <sub>15</sub> N)                                       | 76752-82-4   |

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|                                                                           |              |
|---------------------------------------------------------------------------|--------------|
| <b>PFOA, 及其盐&amp;衍生物</b>                                                  |              |
| 全氟辛酸(PFOA)                                                                | 335-67-1     |
| 全氟辛酸钠(PFOA-Na)                                                            | 335-95-5     |
| 全氟辛酸钾(PFOA-K)                                                             | 2395-00-8    |
| 全氟辛酸银(PFOA-Ag)                                                            | 335-93-3     |
| 全氟辛酰氟(PFOA-F)                                                             | 335-66-0     |
| 全氟辛酸铵(APFO)                                                               | 3825-26-1    |
| 全氟辛酸锂(PFOA-Li)                                                            | 17125-58-5   |
| 全氟辛酸钴(PFOA-Co)                                                            | 35965-01-6   |
| 全氟辛酸铯(PFOA-Cs)                                                            | 17125-60-9   |
| 全氟辛酸铬(3+) (PFOA-Cr(3+))                                                   | 68141-02-6   |
| 全氟辛酸-哌嗪(2:1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> N))                  | 423-52-9     |
| 全氟辛酸盐                                                                     | 45285-51-6   |
| 全氟辛酸酐                                                                     | 33496-48-9   |
| 全氟辛酸四乙基胺                                                                  | 98241-25-9   |
| 全氟辛酸四甲基胺                                                                  | 32609-65-7   |
| 全氟辛酸四丙基胺                                                                  | 277749-00-5  |
| 全氟辛酸钾水合物 (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )                         | 98065-31-7   |
| 全氟辛酸乙胺 (PFOA-C <sub>2</sub> H <sub>7</sub> N)                             | 1376936-03-6 |
| 全氟辛酸吡啶 (PFOA-C <sub>5</sub> H <sub>5</sub> N)                             | 95658-47-2   |
| 全氟辛酸苯基哌嗪 (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )           | 1514-68-7    |
| 全氟辛酸辛基三甲基铵 (PFOA-C <sub>11</sub> H <sub>26</sub> N)                       | 927835-01-6  |
| 全氟辛酰氯 (PFOA-Cl)                                                           | 335-64-8     |
| 全氟辛酰溴(PFOA-Br)                                                            | 222037-87-8  |
| <b>8:2 FTS, 及其盐</b>                                                       |              |
| 1H,1H,2H,2H-全氟癸烷磺酸(8:2 FTS)                                               | 39108-34-4   |
| 1H,1H,2H,2H-全氟癸磺酸钾(8:2 FTS-K)                                             | 438237-73-1  |
| 1H,1H,2H,2H-全氟癸磺酸铵(8:2 FTS-NH <sub>4</sub> )                              | 149724-40-3  |
| 1H,1H,2H,2H-全氟癸磺酸钠(8:2 FTS-Na)                                            | 27619-96-1   |
| 1H,1H,2H,2H-全氟癸磺酸盐 (8:2 FTS(anion))                                       | 481071-78-7  |
| 1H,1H,2H,2H-全氟癸磺酰氯 (8:2 FTS-Cl)                                           | 27619-90-5   |
| <b>8:2 FTCA, 及其盐</b>                                                      |              |
| 2H,2H-全氟癸酸(8:2 FTCA)                                                      | 27854-31-5   |
| 四丁基磷2H,2H-全氟癸酸酯(8:2 FTCA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> ) | 882489-14-7  |
| <b>8:2diPAP, 及其盐</b>                                                      |              |
| 双[2-(全氟辛基)]乙基磷酸酯(8:2diPAP)                                                | 678-41-1     |
| 双[2-(全氟辛基)]乙基磷酸酯钠(8:2diPAP-Na)                                            | 114519-85-6  |
| 双(2-羟乙基)铵双(全氟辛基)乙基磷酸氢                                                     | 57677-97-1   |



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| 双[2-(全氟辛基)]乙基磷酸酯铵盐(8:2 diPAP-NH <sub>4</sub> )                                          | 93776-20-6   |
| 8:2氟调聚物磷酸二酯离子                                                                           | 1411713-91-1 |
| <b>8:3 FTCA, 及其盐</b>                                                                    |              |
| 2H,2H,3H,3H-全氟十一烷酸(8:3 FTCA)                                                            | 34598-33-9   |
| 2H,2H,3H,3H-全氟十一烷酸钾(8:3 FTCA-K)                                                         | 83310-58-1   |
| 2H,2H,3H,3H-全氟十一酸锂(8:3 FTCA-Li)                                                         | 67304-23-8   |
| <b>8:8 PFPI,及其盐</b>                                                                     |              |
| 8:8全氟次膦酸 (8:8 PFPI)                                                                     | 40143-79-1   |
| 8:8 全氟次膦酸钠盐 (8:8 PFPI-Na)                                                               | 500776-69-2  |
| 8:8 全氟次膦酸铟(3+)盐 (8:8 PFPI-Er)                                                           | 500776-70-5  |
| 8:8 全氟次膦酸镱(3+)盐 (8:8 PFPI-Yb)                                                           | 500776-71-6  |
| <b>8:2 monoPAP, 及其盐</b>                                                                 |              |
| 单[2-(全氟辛基)乙基]磷酸盐 (8:2 monoPAP)                                                          | 57678-03-2   |
| 8:2氟调聚物磷酸二铵盐                                                                            | 93857-44-4   |
| 8:2氟调聚物磷酸钠盐                                                                             | 438237-75-3  |
| 双[2-(全氟辛基)乙基]磷酸铵盐                                                                       | 1764-95-0    |
| 单[2-(全氟辛基)乙基]磷酸铵盐                                                                       | 92401-44-0   |
| 单[2-(全氟辛基)乙基]磷酸单钠盐                                                                      | 144965-22-0  |
| 单[2-(全氟辛基)乙基]磷酸单钾盐                                                                      | 150033-28-6  |
| 单[2-(全氟辛基)乙基]磷酸氢铵盐                                                                      | 2353-52-8    |
| <b>10:2 FTS, 及其盐</b>                                                                    |              |
| 1H,1H,2H,2H-全氟十二烷磺酸(10:2 FTS)                                                           | 120226-60-0  |
| 1H,1H,2H,2H-全氟十二烷磺酸钠 (10:2 FTS-Na)                                                      | 108026-35-3  |
| 1H,1H,2H,2H-全氟十二烷磺酰氯(10:2 FTS-Cl)                                                       | 27619-91-6   |
| <b>10:2 diPAP, 及其盐</b>                                                                  |              |
| 双[2-(全氟癸基)乙基]磷酸盐(10:2 diPAP)                                                            | 1895-26-7    |
| 2,2'-亚氨基二乙醇双[2-(全氟癸基)乙基]磷酸盐 (10:2 diPAP-C <sub>4</sub> H <sub>11</sub> O <sub>2</sub> ) | 57677-98-2   |
| <b>10:2 monoPAP, 及其盐</b>                                                                |              |
| 单[2-(全氟癸基)乙基]磷酸酯 (10:2 monoPAP)                                                         | 57678-05-4   |
| 单[2-(全氟癸基)乙基]磷酸双铵盐                                                                      | 93857-45-5   |
| 二十一氟十二烷基磷酸二氢酯环己铵盐                                                                       | 2514858-66-1 |

## (9) 全氟己烷磺酸(PFHxS)及其盐和相关化合物

- (a). 2023年8月8日, 欧盟委员会于欧盟官方公报发布 (EU)2023/1608法规, 修订了2023年5月30日发布的法规 (EU)2019/1021附件I中关于全氟己烷磺酸 (PFHxS)、其盐和PFHxS相关化合物清单。

| 物质        | 范围         | 中间用途或其他规范的特殊豁免 |
|-----------|------------|----------------|
| PFHxS 及其盐 | 物质或混合物, 物品 | ≤ 0.025 mg/kg  |



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|                        |            |                            |
|------------------------|------------|----------------------------|
| PFHxS 相关物质             | 物质或混合物, 物品 | ≤ 1 mg/kg (单项或PFHxS相关物质总和) |
| PFHxS 及其盐和 PFHxS 相关化合物 | 浓缩消防泡沫混合物  | ≤ 0.1 mg/kg (3年内进行审查以降低限值) |

- (b). 本报告中检测的全氟己烷磺酸(PFHxS)及其盐类和PFHxS相关化合物来自欧洲化学品管理局的“持久性有机污染物官方清单”, 请通过以下网络链接查找更多信息

List of substances proposed as POPs - ECHA (europa.eu)

- (c). ^=物质是指下表PFHxS列出的盐/衍生物。

| 物质名称                                                                                                                                                             | CAS No.      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>PFHxS, 及其盐&amp;衍生物</b>                                                                                                                                        |              |
| 全氟己基磺酸(PFHxS)                                                                                                                                                    | 355-46-4     |
| 全氟己基磺酸钠(PFHxS-Na)                                                                                                                                                | 82382-12-5   |
| 全氟己基磺酸钾(PFHxS-K)                                                                                                                                                 | 3871-99-6    |
| 全氟己基磺酸锂(1:1)(PFHxS-Li)                                                                                                                                           | 55120-77-9   |
| 全氟己基磺酸铵(PFHxS-NH <sub>4</sub> )                                                                                                                                  | 68259-08-5   |
| 全氟己基磺酸三苯基(苯基甲基)-磷鎓盐(PFHxS-BTPP)                                                                                                                                  | 1000597-52-3 |
| N,N,N-三丁基丁烷-1-胺全氟己基磺酸盐(PFHxS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                                    | 108427-54-9  |
| N, N,N-三乙基乙胺全氟己基磺酸盐(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )                                                                                       | 108427-55-0  |
| 全氟己基磺酸与四氢吡咯络合物(PFHxS-NC <sub>4</sub> H <sub>9</sub> )                                                                                                            | 1187817-57-7 |
| 全氟-1-己基磺酸-N-[4-[[4-(二乙氨基)苯基][4-(乙基氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-乙基-乙铵盐(PFHxS-(NC <sub>10</sub> H <sub>14</sub> ) <sub>3</sub> C <sub>5</sub> H <sub>4</sub> )   | 1310480-24-0 |
| 全氟-1-己基磺酸-N-[4-[[4-(二甲氨基)苯基][4-(乙基氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基-甲基铵盐(PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>13</sub> H <sub>12</sub> ) | 1310480-27-3 |
| 全氟-1-己基磺酸-N-[4-[[4-(二甲氨基)苯基][4-(苯基氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基-甲基铵盐(PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>17</sub> H <sub>12</sub> ) | 1310480-28-4 |
| 全氟己基磺酸与β-环糊精络合物(PFHxS-C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> )                                                                                          | 1329995-45-0 |
| 全氟己基磺酸与γ-环糊精络合物(PFHxS-C <sub>48</sub> H <sub>80</sub> O <sub>40</sub> )                                                                                          | 1329995-69-8 |
| 全氟己基磺酸三苯基硫鎓盐(TPS-PFHxS)                                                                                                                                          | 144116-10-9  |
| 全氟己基磺酸喹啉, 1-(羧甲基)-4-[2-[4-[4-(2,2-二苯基噻吩基)苯基]-1,2,3a,4,8b-六氢环戊并[b]呋喃-7-基]乙烯基]盐(PFHxS-C <sub>44</sub> H <sub>37</sub> N <sub>2</sub> O <sub>2</sub> )              | 1462414-59-0 |
| 全氟己基磺酸二苯基碘鎓盐(PFHxS-I(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> )                                                                                              | 153443-35-7  |
| N,N,N-三甲基-全氟己基磺酸甲基铵盐(PFHxS-TMA)                                                                                                                                  | 189274-31-5  |
| 全氟己基磺酸与2-甲基-2-丙胺络合物(1:1)(PFHxS-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>3</sub> )                                                                                 | 202189-84-2  |



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|                                                                                                                                                 |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 全氟己基磺酸双[4-(1,1-二甲基乙基)苯基]碘鎓盐(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  |
| 全氟己基磺酸镓(9Cl)(PFHxS-Ga)                                                                                                                          | 341035-71-0  |
| 全氟己基磺酸双(4-甲基苯基)苯基硫鎓盐(1:1)(PFHxS-S(C <sub>7</sub> H <sub>7</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> )                                  | 341548-85-4  |
| 全氟己基磺酸钐(PFHxS-Sc)                                                                                                                               | 350836-93-0  |
| 全氟己基磺酸钕(PFHxS-Nd)                                                                                                                               | 41184-65-0   |
| 全氟己基磺酸钇(PFHxS-Y)                                                                                                                                | 41242-12-0   |
| 全氟己基磺酸(硫代二-4,1-亚苯基)双[二苯基]硫鎓盐(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  |
| 全氟己基磺酸双[4-(1,1-二甲基丙基)苯基]碘鎓盐(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  |
| 全氟己基磺酰氟(PFHxS-F)                                                                                                                                | 423-50-7     |
| 全氟己基磺酸三[4-(1,1-二甲基乙基)苯基]硫鎓盐(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  |
| 全氟己基磺酸锌(PFHxS-Zn)                                                                                                                               | 70136-72-0   |
| 全氟己基磺酸与2,2'-亚氨基二乙醇络合物(PFHxS-NH(C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub> )                                                                  | 70225-16-0   |
| 全氟己基磺酸与三乙胺络合物(1:1)(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                                                                       | 72033-41-1   |
| 全氟己基磺酸双[(1,1-二甲基乙基)苯基]碘鎓盐(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  |
| 全氟己基磺酸(4-甲基苯基)二苯硫鎓盐(PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>7</sub> H <sub>7</sub> )                                        | 910606-39-2  |
| 全氟己基磺酸[4-[(2-甲基-1-氧代-2-丙烯酰)氧基]苯基]二苯基硫鎓盐(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  |
| 全氟己基磺酸铯(1:1)(PFHxS-Cs)                                                                                                                          | 92011-17-1   |
| 二苯并[k,n][1,4,7,13]四氧杂硫环戊二烯,19-[4-(1,1-二甲基乙基)苯基]-6,7,9,10,12,13-六氢-,全氟己基磺酸盐(PFHxS-SC <sub>28</sub> H <sub>31</sub> O <sub>4</sub> )              | 928049-42-7  |
| 全氟己基磺酰氯(PFHxS-Cl)                                                                                                                               | 55591-23-6   |
| PFHxS-磺酸酯聚合物                                                                                                                                    | 911027-69-5  |
| 全氟己基磺酸盐                                                                                                                                         | 108427-53-8  |
| 全氟己基磺酸四丁基磷 (PFHxS-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                              | 2310194-12-6 |
| <b>EtFHxSAA, 及其盐</b>                                                                                                                            |              |
| N-乙基-N-[(十三氟己基)磺酰基]甘氨酸(EtFHxSAA)                                                                                                                | 68957-32-4   |
| N-乙基-N-[(十三氟己基)磺酰基]甘氨酸钾(EtFHxSAA-K)                                                                                                             | 67584-53-6   |
| N-乙基-N-[(十三氟己基)磺酰基]甘氨酸钠(EtFHxSAA-Na)                                                                                                            | 68555-70-4   |

(10)针对纺织品和皮革, ~物质是指附表中甲醇/氢氧化钠溶液提取时会水解的PFAS物质。

| 物质名称                          | CAS No.   |
|-------------------------------|-----------|
| <b>N-EtFOSE, 及可能来源</b>        |           |
| 2- (N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE) | 1691-99-2 |



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| 2- (N-乙基全氟辛烷磺酰胺基)丙烯酸乙酯 (EtFOSAC) ^^       | 423-82-5   |
| <b>PFOA, 及其可能来源</b>                       |            |
| 全氟辛酸 (PFOA)                               | 335-67-1   |
| 全氟辛酸乙酯 (Et-PFOA) ^^                       | 3108-24-5  |
| 全氟辛酸甲酯 (Me-PFOA) ^^                       | 376-27-2   |
| <b>8:2 FTOH, 及其可能来源</b>                   |            |
| 1H, 1H, 2H, 2H-全氟-1-癸醇 (8:2 FTOH)         | 678-39-7   |
| 1H, 1H, 2H, 2H-甲基丙烯酸全氟癸酯 (8:2 FTMA) ^^    | 1996-88-9  |
| 1H, 1H, 2H, 2H-全氟癸基丙烯酸酯 (8:2 FTA) ^^      | 27905-45-9 |
| 1H,1H,2H,2H-全氟十二烷基乙酸酯 (8:2 FTOAc) ^^      | 37858-04-1 |
| <b>10:2 FTOH, 及其可能来源</b>                  |            |
| 1H, 1H, 2H, 2H-全氟-1-十二烷醇 (10:2 FTOH)      | 865-86-1   |
| 1H,1H,2H,2H-全氟十二烷基甲基丙烯酸酯 (10:2 FTMA) ^^   | 2144-54-9  |
| 1H, 1H, 2H, 2H-全氟十二烷基丙烯酸酯 (10:2 FTA) ^^   | 17741-60-5 |
| 1H,1H,2H,2H-全氟癸基乙酸酯 (10:2 FTOAc) ^^       | 37858-05-2 |
| <b>MeFHxSE, 及其可能来源</b>                    |            |
| 十三氟-N- (2-羟基乙基)-N-甲基己烷磺酰胺 (MeFHxSE)       | 68555-75-9 |
| 2-[甲基[ (十三氟己基)磺酰基]氨基]乙基甲基丙烯酸酯 ^^          | 67584-61-6 |
| 2-[甲基[ (十三氟己基)磺酰基]氨基]丙烯酸乙酯 (N-MeFHSEA) ^^ | 67584-57-0 |

- (11) 当用甲醇/氢氧化钠溶液提取时, 化合物被水解并释放出相关的PFAS物质。由于所列PFAS会降解为未知化合物和/或无法通过甲醇/NaOH溶液提取进行分析, 因此只能通过溶剂提取方法检测和定量可提取的含量。通过溶剂提取和随后的GC-MS或GC-MS/MS或HPLC-MS/MS分析得到的结果仅反映了可提取的PFAS。
- (12) 在不影响指令 96/59/EC 的情况下, 允许使用在本法规生效时已经使用的物品。成员国应尽快但不迟于 2025 年 12 月 31 日确定并停止使用多氯联苯含量超过 0.005% 且体积大于 0.05 立方分米的设备 (如变压器、电容器或其他含有液体库存的容器)。
- (13) 依据欧盟 POPs 法规 (EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/843, 为加强《持久性有机污染物重新预测条例》的应用和执行, 当化学物质存在于物质、混合物和物品中时, 为 UV-328 设定了无意痕量污染物 (UTC) 值, 这一 UTC 限制值将在四年内得到加强。

| 物质     | 范围        | 中间用途或其他规范的特殊豁免 | 生效日期     |
|--------|-----------|----------------|----------|
| UV-328 | 物质、混合物和物品 | ≤ 100 mg/kg    | 2025.8.4 |
|        |           | ≤ 10 mg/kg     | 2027.8.4 |
|        |           | ≤ 1.0 mg/kg    | 2029.8.4 |

- (14) 依据欧盟 POPs 法规 (EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/1930, 为加强《持久性有机污染物重新预测条例》的应用和执行, 当化学物质存在于物质、混合物和物品中时, 为得克隆设定了无意痕量污染物 (UTC) 值。

| 物质  | 范围     | 中间用途或其他规范的特殊豁免 | 生效日期        |
|-----|--------|----------------|-------------|
| 得克隆 | 物质、混合物 | ≤ 1000 mg/kg   | 到 2028.4.15 |



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|      |      |                        |             |
|------|------|------------------------|-------------|
| (DP) | 物和物品 | $\leq 1 \text{ mg/kg}$ | 2028.4.15之后 |
|------|------|------------------------|-------------|

(15)对POPs物质的分析检测是基于现有的技术, 根据客户要求进行检测。

(16)结论仅针对报告上的物质清单。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ( $w=0$ ) 的二元判定规则进行符合性判定。

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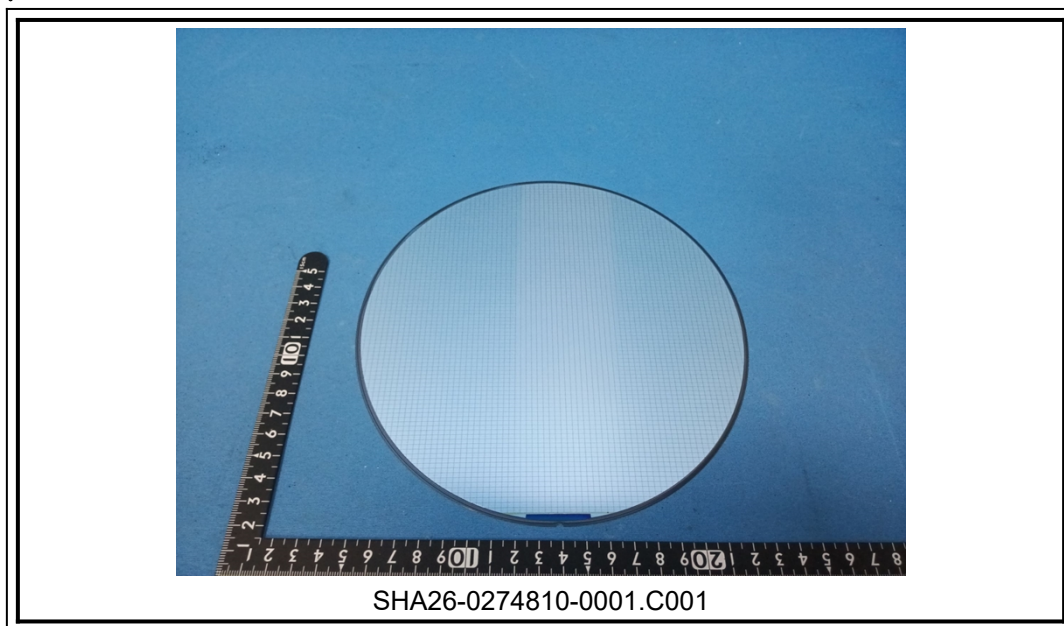
## 检测报告

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