

## Test Report

No.: CANEC26020741707

Date: Aug 04, 2026

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Client Name: Uniroyal Electronics Industry Co., Ltd.

Client Address: 88 Longteng Road, Economic & Technical Development Zone, Kunshan City, Jiangsu, CHINA

Sample Name: Precision Metal Film Fixed Resistors

Buyer: Uniroyal Electronics Global Co.,Ltd

Supplier: Uniroyal Electronics Industry Co., Ltd.  
Aeon Technology Corporation Co.,Ltd.  
Royal Electronic Factory (Thailand) Co.,Ltd.  
Royal Technology (Thailand) Co.,Ltd.  
UNUS TECHNOLOGY CORPORATION

The above sample(s) and information were provided by the client.

SGS Job No.: XMP26-004033

Sample Receiving Date: Jul 29, 2026

Testing Period: Jul 29, 2026 ~ Aug 04, 2026

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

| Test Requirement                                                                                                                                                                                                                    | Conclusion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| European Regulation POPs (EU) 2019/1021 Annex I– Alkanes C <sub>10</sub> -C <sub>13</sub> , chloro (short chain-chlorinated paraffins) (SCCPs)                                                                                      | Pass       |
| European Regulation POPs (EU) 2024/2570 amending Regulation (EU) 2019/1021 Annex I–Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)                                             | Pass       |
| European Regulation POPs (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-related compounds, Perfluorooctane sulfonic acid (PFOS) and its salts, PFOS-related compounds | Pass       |
| European Regulation POPs (EU) 2021/277 amending Regulation (EU) 2019/1021 Annex I– Pentachlorophenol (PCP) and its salts and esters                                                                                                 | Pass       |
| European Regulation POPs (EU) 2023/1608 amending Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds                                                                                                     | Pass       |

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

**Arsene Ye**

Arsene Ye  
Approved Signatory

Scan to see the report



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Guangzhou Branch

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| Test Requirement                                                                                          | Conclusion |
|-----------------------------------------------------------------------------------------------------------|------------|
| European Regulation POPs (EU) 2019/1021 Annex I–Halogenated compounds                                     | Pass       |
| European Regulation POPs (EU) 2025/843 amending Regulation (EU) 2019/1021 Annex I -UV-328                 | Pass       |
| European Regulation POPs (EU) 2025/1930 amending Regulation (EU) 2019/1021 Annex I - Dechlorane Plus (DP) | Pass       |

## Test Result(s):

## Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                         |
|-------|------------|-------------------------|-------------------------------------|
| SN1   | A4         | CAN26-0207417-0001.C004 | Green body with multicolor printing |

## Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

**European Regulation POPs (EU) 2019/1021 Annex I– Alkanes C<sub>10</sub>-C<sub>13</sub>, chloro (short chain-chlorinated paraffins) (SCCPs)****Test Method:** With reference to ISO 22818:2021, analysis was performed by GC-NCI-MS.

| Test Item(s)                                                                                   | CAS No.               | Limit | Unit(s) | MDL | A4          |
|------------------------------------------------------------------------------------------------|-----------------------|-------|---------|-----|-------------|
| Alkanes, C <sub>10</sub> -C <sub>13</sub> , chloro (short chain-chlorinated paraffins) (SCCPs) | 85535-84-8 and others | 1500  | mg/kg   | 50  | ND          |
| <b>Conclusion</b>                                                                              |                       |       |         |     | <b>Pass</b> |

**European Regulation POPs (EU) 2024/2570 amending Regulation (EU) 2019/1021 Annex I– Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)****Test Method:** SGS In-House method, analysis was performed by GC-MS.

| Test Item(s)                                                                             | CAS No.                                                                  | Limit | Unit(s) | MDL | A4          |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------|---------|-----|-------------|
| Hexabromocyclododecane (HBCDD) and its main diastereoisomers (α-HBCDD, β-HBCDD, γ-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          |
| <b>Conclusion</b>                                                                        |                                                                          |       |         |     | <b>Pass</b> |

## Notes:

(1) The exemptions laid down shall be reviewed and assessed by the Commission by 1 January 2026.

**European Regulation POPs (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-related compounds, Perfluorooctane sulfonic acid (PFOS) and its salts, PFOS-related compounds**SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch / 广州分公司

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**Test Method:** Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

| Test Item(s)                                                                                        | CAS No.     | Limit | Unit(s) | MDL   | A4 |
|-----------------------------------------------------------------------------------------------------|-------------|-------|---------|-------|----|
| <b>PFOS, its salts</b>                                                                              |             |       |         |       |    |
| Perfluorooctane sulfonic acid (PFOS), its salts <sup>^</sup>                                        | 1763-23-1   | 0.025 | mg/kg   | 0.010 | ND |
| <b>PFOS-related compounds</b>                                                                       |             |       |         |       |    |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)                                                     | 4151-50-2   | -     | mg/kg   | 0.010 | ND |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)                                                    | 31506-32-8  | -     | mg/kg   | 0.010 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)                                         | 1691-99-2   | -     | mg/kg   | 0.010 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)                                        | 24448-09-7  | -     | mg/kg   | 0.010 | ND |
| Perfluorooctane sulfonamide (PFOSA), its salts <sup>^</sup>                                         | 754-91-6    | -     | mg/kg   | 0.010 | ND |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts <sup>^</sup>                              | 2806-24-8   | -     | mg/kg   | 0.010 | ND |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts <sup>^</sup>                | 2355-31-9   | -     | mg/kg   | 0.010 | ND |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts <sup>^</sup>                   | 2991-50-6   | -     | mg/kg   | 0.010 | ND |
| 2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)                                        | 423-82-5    | -     | mg/kg   | 0.200 | ND |
| Sum of PFOS-related compounds                                                                       | -           | 1     | mg/kg   | -     | ND |
| <b>PFOA, its salts</b>                                                                              |             |       |         |       |    |
| Perfluorooctanoic acid (PFOA), its salts <sup>^</sup>                                               | 335-67-1    | 0.025 | mg/kg   | 0.010 | ND |
| <b>PFOA-related compounds</b>                                                                       |             |       |         |       |    |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts <sup>^</sup>                          | 39108-34-4  | 1     | mg/kg   | 0.010 | ND |
| Methyl perfluorooctanoate (Me-PFOA)                                                                 | 376-27-2    | 1     | mg/kg   | 0.200 | ND |
| Ethyl perfluorooctanoate (Et-PFOA)                                                                  | 3108-24-5   | 1     | mg/kg   | 0.200 | ND |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)                                                       | 27905-45-9  | 1     | mg/kg   | 0.100 | ND |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)                                                  | 1996-88-9   | 1     | mg/kg   | 0.100 | ND |
| Perfluoro-1-iodooctane (PFOI)                                                                       | 507-63-1    | 1     | mg/kg   | 0.200 | ND |
| 2H,2H-Perfluorodecane Acid (8:2 FTCA), its salts <sup>^</sup>                                       | 27854-31-5  | 1     | mg/kg   | 0.010 | ND |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)                                                          | 678-39-7    | 1     | mg/kg   | 0.100 | ND |
| 1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)                                                        | 2043-53-0   | 1     | mg/kg   | 0.100 | ND |
| 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> ) | 101947-16-4 | 1     | mg/kg   | 0.100 | ND |



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| Test Item(s)                                                                                                                                                    | CAS No.                   | Limit | Unit(s) | MDL   | A4          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------|---------|-------|-------------|
| bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts ^                                                          | 678-41-1                  | 1     | mg/kg   | 0.010 | ND          |
| 2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA), its salts^                                                                                                     | 34598-33-9                | 1     | mg/kg   | 0.010 | ND          |
| 1H,1H,2H-Heptafluoro-1-decene (PFDE)                                                                                                                            | 21652-58-4                | 1     | mg/kg   | 0.100 | ND          |
| 3-Perfluoroheptyl propanoic acid (7:3 FTCA)                                                                                                                     | 812-70-4                  | 1     | mg/kg   | 0.010 | ND          |
| 1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl <sub>3</sub> )/<br>1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH <sub>3</sub> ) <sub>3</sub> ) | 78560-44-8<br>/83048-65-1 | 1     | mg/kg   | 0.100 | ND          |
| 2H-Perfluoro-2-decenoic acid (8:2 FTUCA)                                                                                                                        | 70887-84-2                | 1     | mg/kg   | 0.010 | ND          |
| 6:8 Perfluorophosphinic acid (6:8 PFPI)                                                                                                                         | 610800-34-5               | 1     | mg/kg   | 0.010 | ND          |
| 8:8 Perfluorophosphinic acid (8:8 PFPI), its salts^                                                                                                             | 40143-79-1                | 1     | mg/kg   | 0.010 | ND          |
| 1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)                                                                                                                  | 37858-04-1                | 1     | mg/kg   | 0.100 | ND          |
| 8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts^                                                                                                 | 57678-03-2                | 1     | mg/kg   | 0.100 | ND          |
| 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)                                                                                                                   | 865-86-1                  | 1     | mg/kg   | 0.100 | ND          |
| 1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)                                                                                                                | 39239-77-5                | 1     | mg/kg   | 0.100 | ND          |
| 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS), its salts^                                                                                              | 120226-60-0               | 1     | mg/kg   | 0.100 | ND          |
| 10:2 Fluorotelomer phosphate diester (10:2 diPAP), its salts^                                                                                                   | 1895-26-7                 | 1     | mg/kg   | 0.100 | ND          |
| 2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)                                                                                                                     | 70887-94-4                | 1     | mg/kg   | 0.010 | ND          |
| 2-Perfluorodecyl ethanoic acid (10:2 FTCA)                                                                                                                      | 53826-13-4                | 1     | mg/kg   | 0.010 | ND          |
| 10:2 Fluorotelomer phosphate monoester (10:2 monoPAP), its salts^                                                                                               | 57678-05-4                | 1     | mg/kg   | 0.100 | ND          |
| 1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)                                                                                                                 | 17741-60-5                | 1     | mg/kg   | 0.100 | ND          |
| 1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)                                                                                                           | 2144-54-9                 | 1     | mg/kg   | 0.100 | ND          |
| 1,1,2,2-Tetrahydropyridoperfluorododecyl iodide (10:2 FTI)                                                                                                      | 2043-54-1                 | 1     | mg/kg   | 0.100 | ND          |
| 1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)                                                                                                               | 30046-31-2                | 1     | mg/kg   | 0.100 | ND          |
| Perfluorodecyl iodide (PFDI)                                                                                                                                    | 423-62-1                  | 1     | mg/kg   | 0.100 | ND          |
| Perfluorododecyl iodide (PFDODI)                                                                                                                                | 307-60-8                  | 1     | mg/kg   | 0.100 | ND          |
| Sum of PFOA-related compounds                                                                                                                                   | -                         | 1     | mg/kg   | -     | ND          |
| <b>Conclusion</b>                                                                                                                                               |                           |       |         |       | <b>Pass</b> |



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### Notes:

- (1) According to Regulation (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I, the concentrations of PFOS or any of its salts equal to or below 0,025 mg/kg (0,000025 % by weight) and all PFOS-related compounds equal to or below 1 mg/kg (0,0001 % by weight) where they are present in substances, mixtures or in articles. Date of applicability: From 3 December 2025.
- (2) ^=Substances refer to its salts/derivative listed in below table.

| Substances Name                                                                                                                                                                                 | CAS No.      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>PFOS, its salts &amp; derivatives</b>                                                                                                                                                        |              |
| Perfluorooctane sulfonic acid (PFOS)                                                                                                                                                            | 1763-23-1    |
| Potassium Perfluorooctanesulfonate (PFOS-K)                                                                                                                                                     | 2795-39-3    |
| Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)                                                                                                                                            | 29457-72-5   |
| Sodium perfluorooctanesulfonate (PFOS-Na)                                                                                                                                                       | 4021-47-0    |
| Ammonium perfluorooctanesulfonate (PFOS-NH <sub>4</sub> )                                                                                                                                       | 29081-56-9   |
| Perfluorooctane sulfonate diethanolamine salt (PFOS-NH <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )                                                                           | 70225-14-8   |
| Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )                                                                                    | 56773-42-3   |
| N-decyl-N,N-dimethyldecyl-1-aminium<br>1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> ) | 251099-16-8  |
| TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                                              | 111873-33-7  |
| Perfluorooctane Sulfonyl fluoride (PFOS-F)                                                                                                                                                      | 307-35-7     |
| Magnesium bis(heptafluorooctanesulphonate) (PFOS-Mg)                                                                                                                                            | 91036-71-4   |
| Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate                                                                                                                         | 71463-74-6   |
| Perfluorooctanesulfonate                                                                                                                                                                        | 45298-90-6   |
| Triethylammonium perfluorooctane sulfonate (PFOS-NH(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                                                                                              | 54439-46-2   |
| Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )                                                                                                          | 56773-44-5   |
| N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (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-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))                                                      | 124472-68-0  |
| Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)                                                                                                    | 213740-80-8  |
| Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate                                                                                                                            | 258341-99-0  |
| 1-Hexadecylpyridinium perfluoro-1-octanesulfonate                                                                                                                                               | 334529-63-4  |
| N,N,N-Triethyldecyl-1-aminium heptafluorooctane-1-sulfonate                                                                                                                                     | 773895-92-4  |
| Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                                          | 2185049-59-4 |
| Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)                                                                                                          | 2205029-08-7 |



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|                                                                                                                                                        |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium<br>heptadecafluorooctane-1-sulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> ) | 1203998-97-3 |
| Perfluorooctane sulfonic anhydride (PFOSAN)                                                                                                            | 423-92-7     |
| Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)                                                                                                          | 423-60-9     |
| <b>FOSAA, its salts</b>                                                                                                                                |              |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA)                                                                                                         | 2806-24-8    |
| N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))                                                                                                   | 909405-47-6  |
| N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)                                                                                     | 75260-69-4   |
| N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)                                                                                       | 115716-87-5  |
| <b>N-MeFOSAA, its salts</b>                                                                                                                            |              |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)                                                                                           | 2355-31-9    |
| 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))                                                                                      | 909405-48-7  |
| Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)                                                                         | 70281-93-5   |
| Cyclo-hexachloro (N-methyl- (N-(perfluorooctylsulphonyl) glycinato-O1:O1')) dihydroxytrichromium                                                       | 97298-47-0   |
| <b>N-EtFOSAA, its salts</b>                                                                                                                            |              |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)                                                                                              | 2991-50-6    |
| Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)                                                                    | 2991-51-7    |
| 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))                                                                                      | 909405-49-8  |
| Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH <sub>4</sub> )                                                                    | 2991-52-8    |
| Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)                                                                                    | 3871-50-9    |
| Diaquatetrachloro[μ-[N-ethyl-N-[(perfluorooctyl)sulfonyl]glycinato-O1:O1']]-μ-hydroxybis[2-methylpropanol]dichromium                                   | 68891-96-3   |
| <b>PFOSA, its salts</b>                                                                                                                                |              |
| Perfluorooctane Sulfonamide (PFOSA)                                                                                                                    | 754-91-6     |
| Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)                                                                                               | 76752-79-9   |
| Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)                                                                                                | 76752-78-8   |
| Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)                                                                                              | 76752-70-0   |
| Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH <sub>4</sub> )                                                                                | 76752-72-2   |
| Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)                                       | 76752-82-4   |
| <b>PFOA, its salts &amp; derivatives</b>                                                                                                               |              |
| Perfluorooctanoic acid (PFOA)                                                                                                                          | 335-67-1     |
| Sodium perfluorooctanoate (PFOA-Na)                                                                                                                    | 335-95-5     |
| Potassium perfluorooctanoate (PFOA-K)                                                                                                                  | 2395-00-8    |



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|--------------------------------------------------------------------------------------------------------------|--------------|
| Silver perfluorooctanote (PFOA-Ag)                                                                           | 335-93-3     |
| Perfluorooctanoyl fluoride (PFOA-F)                                                                          | 335-66-0     |
| Ammonium pentadecafluorooctanoate (APFO)                                                                     | 3825-26-1    |
| Lithium perfluorooctanoate (PFOA-Li)                                                                         | 17125-58-5   |
| Cobalt perfluorooctanoate (PFOA-Co)                                                                          | 35965-01-6   |
| Cesium perfluorooctanoate (PFOA-Cs)                                                                          | 17125-60-9   |
| Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))                    | 68141-02-6   |
| Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> N))                   | 423-52-9     |
| Pentadecafluorooctanoate (anion)                                                                             | 45285-51-6   |
| Perfluorooctanoic Anhydride                                                                                  | 33496-48-9   |
| N,N,N-Triethylethanaminium perfluorooctanoate                                                                | 98241-25-9   |
| Perfluorooctanoate N,N,N-Trimethylmethanaminium                                                              | 32609-65-7   |
| Tetrapropylammonium perfluorooctanoate                                                                       | 277749-00-5  |
| Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )                   | 98065-31-7   |
| Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)                   | 1376936-03-6 |
| Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C <sub>5</sub> H <sub>5</sub> N)                          | 95658-47-2   |
| pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> ) | 1514-68-7    |
| N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C <sub>11</sub> H <sub>26</sub> N)             | 927835-01-6  |
| Pentadecafluorooctanoyl chloride (PFOA-Cl)                                                                   | 335-64-8     |
| Perfluorooctanoyl Bromide (PFOA-Br)                                                                          | 222037-87-8  |
| <b>8:2 FTS, its salts</b>                                                                                    |              |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)                                                           | 39108-34-4   |
| Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K)                                                  | 438237-73-1  |
| Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH <sub>4</sub> )                                    | 149724-40-3  |
| Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)                                                    | 27619-96-1   |
| 2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))                                                        | 481071-78-7  |
| 2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)                                                       | 27619-90-5   |
| <b>8:2 FTCA, its salts</b>                                                                                   |              |
| 2H,2H-Perfluorodecane Acid (8:2 FTCA)                                                                        | 27854-31-5   |
| Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )    | 882489-14-7  |
| <b>8:2diPAP, its salts</b>                                                                                   |              |
| Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2diPAP)                 | 678-41-1     |
| Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)                                                | 114519-85-6  |



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| Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate                                                     | 57677-97-1   |
| Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH <sub>4</sub> )                                             | 93776-20-6   |
| 8:2 Fluorotelomer phosphate diester ion (1-)                                                                                  | 1411713-91-1 |
| <b>8:3 FTCA, its salts</b>                                                                                                    |              |
| 2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)                                                                               | 34598-33-9   |
| Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)                                                                       | 83310-58-1   |
| 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)                                                                                | 67304-23-8   |
| <b>8:8 PFPI, its salts</b>                                                                                                    |              |
| 8:8 Perfluorophosphinic acid (8:8 PFPI)                                                                                       | 40143-79-1   |
| Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPI-Na)                                                            | 500776-69-2  |
| Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er)                                                             | 500776-70-5  |
| Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb)                                                          | 500776-71-6  |
| <b>8:2 monoPAP, its salts</b>                                                                                                 |              |
| 8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)                                                                           | 57678-03-2   |
| 8:2 Fluorotelomer diammonium phosphate                                                                                        | 93857-44-4   |
| Disodium 1H,1H,2H,2H-perfluorodecylphosphate                                                                                  | 438237-75-3  |
| Ammonium bis[2-(perfluorohexyl)ethyl] phosphate                                                                               | 1764-95-0    |
| 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt                                                        | 92401-44-0   |
| Sodium 1H,1H,2H,2H-perfluorooctylphosphate                                                                                    | 144965-22-0  |
| Monopotassium monoperfluorohexyl ethylphosphate                                                                               | 150033-28-6  |
| Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate                                                                           | 2353-52-8    |
| <b>10:2 FTS, its salts</b>                                                                                                    |              |
| 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)                                                                        | 120226-60-0  |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)                                                               | 108026-35-3  |
| 2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl)                                                                    | 27619-91-6   |
| <b>10:2 diPAP, its salts</b>                                                                                                  |              |
| 10:2 Fluorotelomer phosphate diester (10:2 diPAP)                                                                             | 1895-26-7    |
| 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   |
| <b>10:2 monoPAP, its salts</b>                                                                                                |              |
| 10:2 Fluorotelomer phosphate monoester (10:2 monoPAP)                                                                         | 57678-05-4   |
| 10:2 Fluorotelomer diammonium dihydrogen phosphate                                                                            | 93857-45-5   |
| 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-Henicosafuorododecyl dihydrogen phosphate cyclohexylamine                   | 2514858-66-1 |

(3) The conclusion is only applicable to the substance list in the report.



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**European Regulation POPs (EU) 2021/277 amending Regulation (EU) 2019/1021 Annex I– Pentachlorophenol (PCP) and its salts and esters****Test Method:** With reference to EN 17134-2:2023, analysis was performed by GC-MS.

| Test Item(s)                                     | CAS No.            | Limit | Unit(s) | MDL | A4          |
|--------------------------------------------------|--------------------|-------|---------|-----|-------------|
| Pentachlorophenol (PCP) and its salts and esters | 87-86-5 and others | 5     | mg/kg   | 0.5 | ND          |
| <b>Conclusion</b>                                |                    |       |         |     | <b>Pass</b> |

**European Regulation POPs (EU) 2023/1608 amending Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds****Test Method:** Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

| Test Item(s)                                                                                                    | CAS No.    | Limit | Unit(s) | MDL   | A4          |
|-----------------------------------------------------------------------------------------------------------------|------------|-------|---------|-------|-------------|
| <b>PFHxS, its salts</b>                                                                                         |            |       |         |       |             |
| Perfluorohexanesulfonic acid (PFHxS), its salts <sup>^</sup>                                                    | 355-46-4   | 0.025 | mg/kg   | 0.010 | ND          |
| <b>PFHxS-related compounds</b>                                                                                  |            |       |         |       |             |
| N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)                                                             | 68259-15-4 | 1     | mg/kg   | 0.010 | ND          |
| Perfluorohexane sulfonamide (PFHxSA)                                                                            | 41997-13-1 | 1     | mg/kg   | 0.010 | ND          |
| N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)                                        | 50598-28-2 | 1     | mg/kg   | 0.010 | ND          |
| 2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)                                     | 67584-57-0 | 1     | mg/kg   | 0.200 | ND          |
| 2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester | 67584-61-6 | 1     | mg/kg   | 0.200 | ND          |
| 2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester  | 67906-70-1 | 1     | mg/kg   | 0.200 | ND          |
| 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE)              | 68555-75-9 | 1     | mg/kg   | 0.010 | ND          |
| Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA), its salts <sup>^</sup>  | 68957-32-4 | 1     | mg/kg   | 0.010 | ND          |
| Sum of PFHxS-related compounds                                                                                  | -          | 1     | mg/kg   | -     | ND          |
| <b>Conclusion</b>                                                                                               |            |       |         |       | <b>Pass</b> |

**Notes:**

(1) Commission Delegated Regulation (EU) 2023/1608 of May 30, 2023, amending Regulation (EU)



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2019/1021 Annex I as regard the listing of perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds, Official Journal of the EU, August 8, 2023.

| Substance                                    | Scope                            | Specific exemption on intermediate use or other specification                                                                     |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| PFHxS and its salts                          | Substances, mixtures or articles | ≤ 0.025 mg/kg                                                                                                                     |
| PFHxS-related compounds                      | Substances, mixtures or articles | ≤ 1 mg/kg (individual or sum of all)                                                                                              |
| PFHxS, its salts and PFHxS-related compounds | Concentrated firefighting foam   | ≤ 0.1 mg/kg (to be reviewed within three years after entry into force of this amending regulation with a view to lower the limit) |

- (2) The tested perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds refer to the "Listed under the POPs Regulation" of ECHA, please find more information via below weblink:  
<https://echa.europa.eu/list-of-substances-proposed-as-pops>

- (3) ^=Substances refer to its salts/derivative listed in below table

| Substances Name                                                                                                                                                                                                                                                                                                     | CAS No.      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>PFHxS, its salts &amp; derivatives</b>                                                                                                                                                                                                                                                                           |              |
| Perfluorohexanesulfonic acid (PFHxS)                                                                                                                                                                                                                                                                                | 355-46-4     |
| Perfluorohexanesulfonate Na-salt (PFHxS-Na)                                                                                                                                                                                                                                                                         | 82382-12-5   |
| Perfluorohexanesulfonate K-salt (PFHxS-K)                                                                                                                                                                                                                                                                           | 3871-99-6    |
| 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   |
| Ammonium perfluorohexane-1-sulphonate (PFHxS-NH <sub>4</sub> )                                                                                                                                                                                                                                                      | 68259-08-5   |
| Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP)                                                                                                                                                                                                 | 1000597-52-3 |
| N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                                                                                                                                                | 108427-54-9  |
| N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )                                                                                                                                                                                                   | 108427-55-0  |
| 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-NC <sub>4</sub> H <sub>9</sub> )                                                                                                                                                                              | 1187817-57-7 |
| 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) (Calculated in terms of PFHxS) (PFHxS-(NC <sub>10</sub> H <sub>14</sub> ) <sub>3</sub> C <sub>5</sub> H <sub>4</sub> ) | 1310480-24-0 |
| 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 |
| Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-                                                                                                                                                                                                                                                                   | 1310480-28-4 |



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|                                                                                                                                                                                                                                                                    |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| (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> )                           |              |
| 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) (PFHxS-C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> )                                                                                                 | 1329995-45-0 |
| 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 |
| Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (TPS-PFHxS)                                                                                                                                                                 | 144116-10-9  |
| Quinolinium, 1-(carboxymethyl)-4-[2-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-C <sub>44</sub> H <sub>37</sub> N <sub>2</sub> O <sub>2</sub> ) | 1462414-59-0 |
| Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> )                                                                                                                       | 153443-35-7  |
| Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-TMA)                                                                                                                                         | 189274-31-5  |
| 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)(PFHxS-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>3</sub> )                                                                                                   | 202189-84-2  |
| Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(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  |
| 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl)(PFHxS-Ga)                                                                                                                                                                      | 341035-71-0  |
| Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (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  |
| 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  |
| 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   |
| 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   |
| Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 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  |
| 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> ))                                                           | 421555-74-0  |
| Perfluorohexanesulphonyl fluoride (PFHxS-F)                                                                                                                                                                                                                        | 423-50-7     |
| Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-,                                                                                                                                                                                                                     | 425670-70-8  |



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|                                                                                                                                                                                                                                                                                                                                                                                                         |              |
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| 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> )                                                                                                                                                                                                                                    |              |
| 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)                                                                                                                                                                                                                                                                                                                   | 70136-72-0   |
| 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   |
| 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   |
| 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  |
| 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  |
| 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  |
| 1-Hexanesulfonic acid, 9,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) (PFHxS-Cs)                                                                                                                                                                                                                                                                                                | 92011-17-1   |
| 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  |
| Perfluorohexylsulfonyl chloride (PFHxS-Cl)                                                                                                                                                                                                                                                                                                                                                              | 55591-23-6   |
| Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 <sup>3,7</sup> ]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 <sup>3,7</sup> ]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate (PFHxS-Sulfonium, propenoate polymer) | 911027-69-5  |
| Perfluorohexane sulfonate (anion)                                                                                                                                                                                                                                                                                                                                                                       | 108427-53-8  |
| Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                                                                                                                                                                                                                                                | 2310194-12-6 |
| <b>EtFHxSAA, its salts</b>                                                                                                                                                                                                                                                                                                                                                                              |              |
| Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA)                                                                                                                                                                                                                                                                                                                  | 68957-32-4   |
| Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)                                                                                                                                                                                                                                                                                                                                | 67584-53-6   |
| Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)                                                                                                                                                                                                                                                                                                                                 | 68555-70-4   |

(4) The conclusion is only applicable to the substance list in the report.



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**European Regulation POPs (EU) 2019/1021 Annex I—Halogenated compounds****Test Method:** SGS In-House method, analysis was performed by GC-MS.

| Test Item(s)                        | CAS No.               | Limit      | Unit(s) | MDL | A4          |
|-------------------------------------|-----------------------|------------|---------|-----|-------------|
| Hexachlorobutadiene                 | 87-68-3               | Prohibited | mg/kg   | 5   | ND          |
| Pentachlorobenzene                  | 608-93-5              | Prohibited | mg/kg   | 5   | ND          |
| Polychlorinated biphenyls (PCBs)    | 1336-36-3 and others  | Prohibited | mg/kg   | 0.2 | ND          |
| Polychlorinated naphthalenes (PCNs) | 70776-03-3 and others | Prohibited | mg/kg   | 5   | ND          |
| Hexabromobiphenyl                   | 36355-01-8            | Prohibited | mg/kg   | 5   | ND          |
| <b>Conclusion</b>                   |                       |            |         |     | <b>Pass</b> |

**Notes:**

(1) Exemption: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether in electrical and electronic equipment within the scope of Directive 2011/65/EU are exempted.

(2) Without prejudice to Directive 96/59/EC, articles already in use at the time of the entry into force of this Regulation are allowed to be used. Member States shall identify and remove from use equipment (e.g. transformers, capacitors or other receptacles containing liquid stocks) containing more than 0,005 % PCBs and volumes greater than 0,05 dm<sup>3</sup>, as soon as possible but no later than 31 December 2025.

**European Regulation POPs (EU) 2025/843 amending Regulation (EU) 2019/1021 Annex I -UV-328****Test Method:** SGS In-House method, analysis was performed by GC-MS.

| Test Item(s)                                               | CAS No.    | Limit | Unit(s) | MDL | A4          |
|------------------------------------------------------------|------------|-------|---------|-----|-------------|
| 2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328) | 25973-55-1 | 100   | mg/kg   | 1   | ND          |
| <b>Conclusion</b>                                          |            |       |         |     | <b>Pass</b> |

**Notes:**

(1) According to European Regulation POPs (EU) 2025/843 amending Regulation (EU) 2019/1021 Annex I, To reinforce the application and enforcement of the POP Recast Regulation, an unintentional trace contaminant (UTC) value has been set for UV-328 when the chemical is in substances, mixtures and articles. This UTC limit value will be strengthened over a four-year period.

| Substance | Scope                              | Specific exemption on intermediate use or other specifications | Effective date |
|-----------|------------------------------------|----------------------------------------------------------------|----------------|
| UV-328    | Substances<br>Mixtures<br>Articles | ≤ 100 mg/kg                                                    | August 4, 2025 |
|           |                                    | ≤ 10 mg/kg                                                     | August 4, 2027 |
|           |                                    | ≤ 1.0 mg/kg                                                    | August 4, 2029 |

**European Regulation POPs (EU) 2025/1930 amending Regulation (EU) 2019/1021 Annex I - Dechlorane Plus (DP)****Test Method:** SGS In-House method, analysis was performed by GC-MS.

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| Test Item(s)        | CAS No.                                    | Limit | Unit(s) | MDL | A4          |
|---------------------|--------------------------------------------|-------|---------|-----|-------------|
| Dechlorane Plus(DP) | 13560-89-9<br>/135821-03-3<br>/135821-74-8 | 1000  | mg/kg   | 1   | ND          |
| <b>Conclusion</b>   |                                            |       |         |     | <b>Pass</b> |

### Notes:

(1) According to European Regulation POPs (EU) 2025/1930 amending Regulation (EU) 2019/1021 Annex I, To reinforce the application and enforcement of the POP Recast Regulation, an unintentional trace contaminant (UTC) value has been set for Dechlorane Plus when the chemical is in substances, mixtures and articles.

| Substance       | Scope                              | Specific exemption on intermediate use or other specifications | Effective date       |
|-----------------|------------------------------------|----------------------------------------------------------------|----------------------|
| Dechlorane Plus | Substances<br>Mixtures<br>Articles | ≤ 1000 mg/kg                                                   | Until April 15, 2028 |
|                 |                                    | ≤ 1 mg/kg                                                      | After April 15, 2028 |

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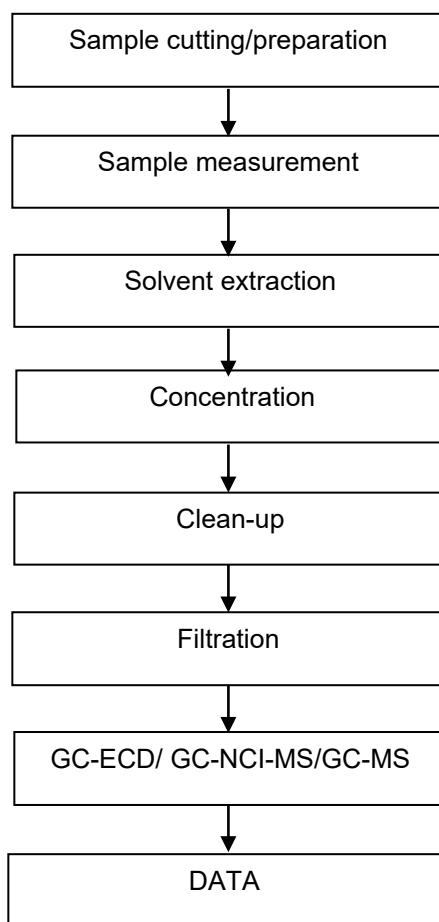
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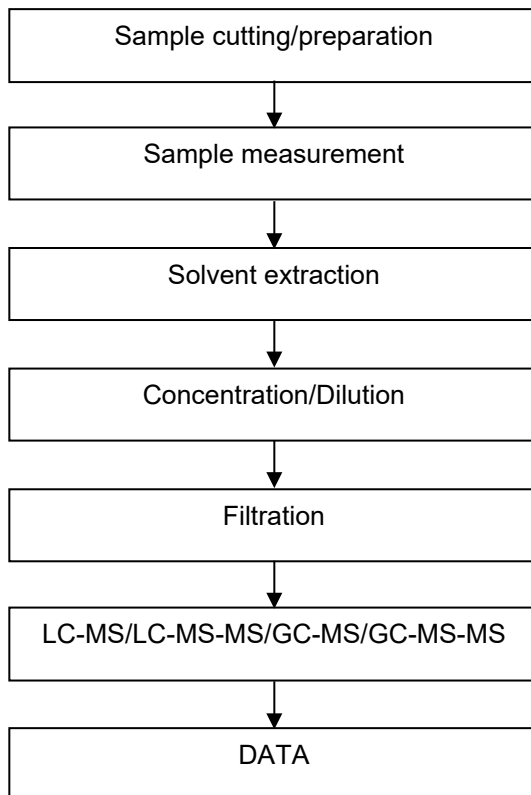
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## Chlorinated Paraffin Testing Flow Chart



## PFASs/ PFOS/PFOA Testing Flow Chart



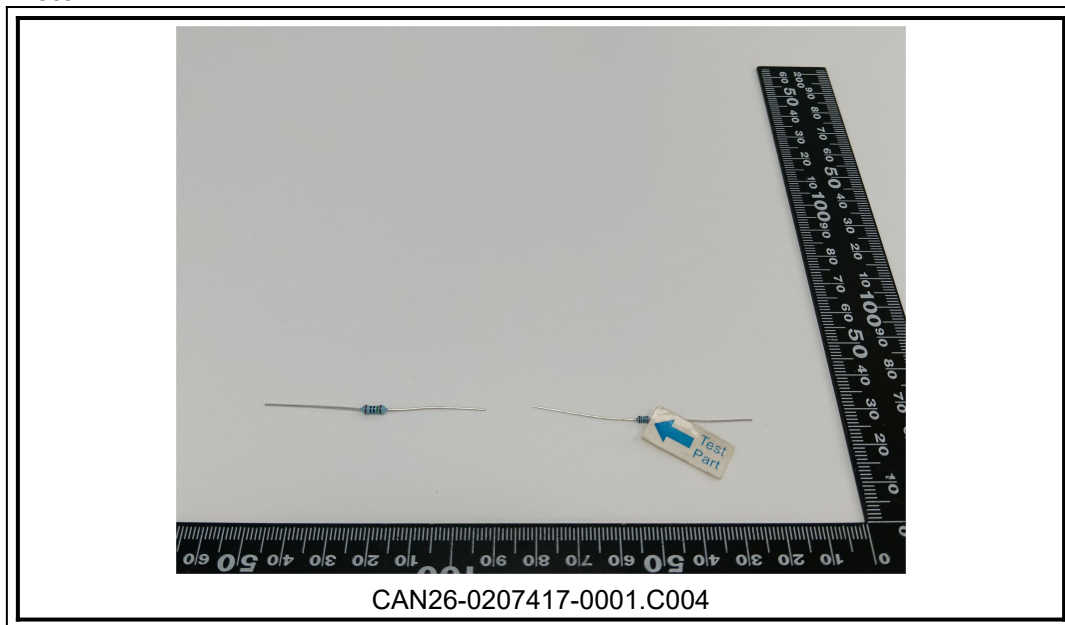
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