

Test Report

No.: SHAEC25013262603

Date: Jun 10, 2025

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Client Name: Jiangsu JieJie Microelectronics Co.,Ltd.

Client Address: 3000 Qiantangjiang Road, Economic Development Zone, Qidong , Jiangsu , China

Sample Name: TO-220A

Client Ref. Information: See Attachment

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

SGS Job No.: SHP25-018049

Sample Receiving Date: Jun 04, 2025

Testing Period: Jun 04, 2025 ~ Jun 10, 2025

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 ₁₀ -C ₁₃ , chloro (short chain-chlorinated paraffins) (SCCPs) | Pass |
| European Regulation POPs (EU) 2021/277 amending to Regulation (EU) 2019/1021 Annex I– Pentachlorophenol (PCP) and its salts and esters | Pass |
| European Regulation POPs (EU) 2023/1608 amending to Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds | Pass |
| European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-Related Substances, Perfluorooctane sulfonic acid (PFOS) and its derivatives | Pass |
| Draft regulations to European Regulation POPs (EU) 2019/1021 Annex I and its amendments | Pass |
| European Regulation POPs (EU) 2019/1021 Annex I–Selected halogenated compounds | Pass |

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Sue Sheng

Sue Sheng

Approved Signatory

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Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|-------------|
| SN1 | A1 | SHA25-0132626-0001.C001 | Black solid |

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 C₁₀-C₁₃, 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 | A1 |
|--|-----------------------|-------|---------|-----|-------------|
| Alkanes, C ₁₀ -C ₁₃ , chloro (short chain-chlorinated paraffins) (SCCPs) | 85535-84-8 and others | 1500 | mg/kg | 50 | ND |
| Conclusion | | | | | Pass |

European Regulation POPs (EU) 2021/277 amending to 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 | A1 |
|--|--------------------|-------|---------|-----|-------------|
| Pentachlorophenol (PCP) and its salts and esters | 87-86-5 and others | 5 | mg/kg | 0.5 | ND |
| Conclusion | | | | | Pass |

European Regulation POPs (EU) 2023/1608 amending to Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds**Test Method:** Modified EN 17681-1:2022 and EN 17681-2:2022, 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 | A1 |
|--|------------|-------|---------|-------|----|
| PFHxS, its salts | | | | | |
| Perfluorohexanesulfonic acid (PFHxS), its salts ^A | 355-46-4 | 0.025 | mg/kg | 0.010 | ND |
| PFHxS-related compounds | | | | | |
| 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 |



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| Test Item(s) | CAS No. | Limit | Unit(s) | MDL | A1 |
|---|------------|-------|---------|-------|-------------|
| 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 [^] | 68957-32-4 | 1 | mg/kg | 0.010 | ND |
| Sum of PFHxS-related compounds | - | 1 | mg/kg | - | ND |
| Conclusion | | | | | Pass |

Notes:

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

| | |
|--|------------|
| PFHxS, its salts & derivatives | |
| 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 ₄) | 68259-08-5 |



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| 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 ₄ H ₉) ₄) | 108427-54-9 |
| N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₂ H ₅) ₄) | 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 ₄ H ₉) | 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 ₁₀ H ₁₄) ₃ C ₅ H ₄) | 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 ₈ H ₁₀) ₂ C ₁₃ H ₁₂) | 1310480-27-3 |
| Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂) | 1310480-28-4 |
| 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 ₄₂ H ₇₀ O ₃₅) | 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 ₄₈ H ₈₀ O ₄₀) | 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-[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 ₄₄ H ₃₇ N ₂ O ₂) | 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 ₆ H ₅) ₂) | 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 ₂ (CH ₃) ₃) | 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 ₆ H ₄) ₂ (C ₄ H ₉) ₂) | 213740-81-9 |
| 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)(PFHxS-Ga) | 341035-71-0 |
| 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 ₇ H ₇) ₂ C ₆ H ₅) | 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 ₃ (C ₆ H ₅) ₄ (C ₆ H ₄) ₂) | 421555-73-9 |



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European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-Related Substances, Perfluorooctane sulfonic acid (PFOS) and its derivatives

Test Method: With reference to modified EN 17681-1:2022 and EN 17681-2:2022, 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 | A1 |
|--|------------|-------|---------|-------|----|
| PFOS, its salts and related compounds | | | | | |
| Perfluorooctane sulfonic acid (PFOS), its salts [^] | 1763-23-1 | - | mg/kg | 0.010 | ND |
| 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 [^] | 754-91-6 | - | mg/kg | 0.010 | ND |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts [^] | 2806-24-8 | - | mg/kg | 0.010 | ND |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts [^] | 2355-31-9 | - | mg/kg | 0.010 | ND |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts [^] | 2991-50-6 | - | mg/kg | 0.010 | ND |
| Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives | - | 1000 | mg/kg | - | ND |
| PFOA, its salts | | | | | |
| Perfluorooctanoic acid (PFOA), its salts [^] | 335-67-1 | 0.025 | mg/kg | 0.010 | ND |
| PFOA-related compounds | | | | | |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts [^] | 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 methacrylate (8:2 FTMA) | 1996-88-9 | 1 | mg/kg | 0.100 | ND |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) | 27905-45-9 | 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 [^] | 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 |



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| Test Item(s) | CAS No. | Limit | Unit(s) | MDL | A1 |
|--|---------------------------|-------|---------|-------|-------------|
| 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃) | 101947-16-4 | 1 | mg/kg | 0.100 | ND |
| 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-Heptafluorodecyl-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/ 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane | 78560-44-8 /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 |
| Sum of PFOA-related compounds | - | 1 | mg/kg | - | ND |
| Conclusion | | | | | Pass |

Notes:

(1) ^=Substances refer to its salts/derivative listed in below table.

| Substance Name | CAS No. |
|--|-------------|
| PFOS, its salts & derivatives | |
| 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 ₄) | 29081-56-9 |
| Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂) | 70225-14-8 |
| Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) | 56773-42-3 |
| N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂) | 251099-16-8 |
| TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄) | 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- | 71463-74-6 |



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| | |
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| heptadecafluorooctanesulfonate | |
| Perfluorooctanesulfonate | 45298-90-6 |
| Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃) | 54439-46-2 |
| Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄) | 56773-44-5 |
| N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) | 56773-56-9 |
| N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) | 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-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate | 773895-92-4 |
| Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C ₄ H ₉) ₄)) | 2185049-59-4 |
| Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N) | 2205029-08-7 |
| heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂) | 1203998-97-3 |
| Perfluorooctane sulfonic anhydride (PFOSAN) | 423-92-7 |
| FOSAA, its salts | |
| 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 |
| N-MeFOSAA, its salts | |
| 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 |
| N-EtFOSAA, its salts | |
| 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 ₄) | 2991-52-8 |
| Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) | 3871-50-9 |
| PFOSA, its salts | |
| 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 ₄) | 76752-72-2 |
| Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) | 76752-82-4 |



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| PFOA, its salts & derivatives | |
| Perfluorooctanoic acid (PFOA) | 335-67-1 |
| Sodium perfluorooctanoate (PFOA-Na) | 335-95-5 |
| Potassium perfluorooctanoate (PFOA-K) | 2395-00-8 |
| Silver perfluorooctanoate (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 ₄ H ₁₀ 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 ₂ O) ₂) | 98065-31-7 |
| Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N) | 1376936-03-6 |
| Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N) | 95658-47-2 |
| pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) | 1514-68-7 |
| N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N) | 927835-01-6 |
| 8:2 FTS, its salts | |
| 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 ₄) | 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 |
| 8:2 FTCA, its salts | |
| 2H,2H-Perfluorodecane Acid (8:2 FTCA) | 27854-31-5 |
| Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄) | 882489-14-7 |
| 8:2diPAP, its salts | |
| 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 |
| Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate | 57677-97-1 |
| Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH ₄) | 93776-20-6 |
| 8:2 Fluorotelomer phosphate diester ion (1-) | 1411713-91-1 |
| 8:3 FTCA, its salts | |
| 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 |



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| | |
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| 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li) | 67304-23-8 |
| 8:8 PFPI, its salts | |
| 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 |
| 8:2 monoPAP, its salts | |
| 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 |

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

Draft regulations to European Regulation POPs (EU) 2019/1021 Annex I and its amendments

Test Method: SGS In-House method, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Limit | Unit(s) | MDL | A1 |
|---------------------|--|-------|---------|-----|-------------|
| Dechlorane Plus(DP) | 13560-89-9 /135821-03-3 /135821-74-8 | 1 | mg/kg | 1 | ND |
| UV-328 | 25973-55-1 | 1 | mg/kg | 1 | ND |
| Conclusion | | | | | Pass |

Notes:

(1) Proposed effective date of UV 328 and Dechlorane Plus is February 26, 2025.

European Regulation POPs (EU) 2019/1021 Annex I-Selected halogenated compounds

Test Method: With reference to SGS in house method , analysis was performed by GC-ECD or GC-MS.

| Test Item(s) | CAS No. | Limit | Unit(s) | MDL | A1 |
|-------------------------------------|-----------------------|------------|---------|-----|----|
| 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 | 50 | mg/kg | 5 | ND |
| Polychlorinated naphthalenes (PCNs) | 70776-03-3 and others | Prohibited | mg/kg | 5 | ND |
| Hexabromodiphenyl | 36355-01-8 | Prohibited | mg/kg | 5 | ND |



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| Test Item(s) | CAS No. | Limit | Unit(s) | MDL | A1 |
|--|--|-------|---------|-----|-------------|
| Tetrabromodiphenyl ether | 40088-47-9 and others | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | 32534-81-9 and others | - | mg/kg | 5 | ND |
| Hexabromodiphenyl ether | 36483-60-0 and others | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | 68928-80-3 and others | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether (decaBDE) | 1163-19-5 | - | mg/kg | 5 | ND |
| Sum of PBDEs* | - | 500 | mg/kg | - | ND |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) | 134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6 | 75 | mg/kg | 20 | ND |
| Conclusion | | | | | Pass |

Notes:

- (1) Sum of PBDEs* Means Sum of Tetrabromodiphenyl ether, Pentabromodiphenyl ether, Hexabromodiphenyl ether, Heptabromodiphenyl ether and Decabromodiphenyl ether.
- (2) Exemptions: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether are ≤ 10 mg/kg for substances, and Sum of tetra-, penta-, hexa-, hepta- and decaBDE ≤ 500 mg/kg for mixtures or articles, this restriction is subject to review and assessment by the European by 16 July 2021.
- (3) 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.
- (4) Exemptions: HBCDD no more than 75 mg/kg as an unintentional trace contaminant in substances, mixtures, articles or flame-retarded parts of articles, the exemptions laid down shall be reviewed and assessed by the Commission by 1 January 2026.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



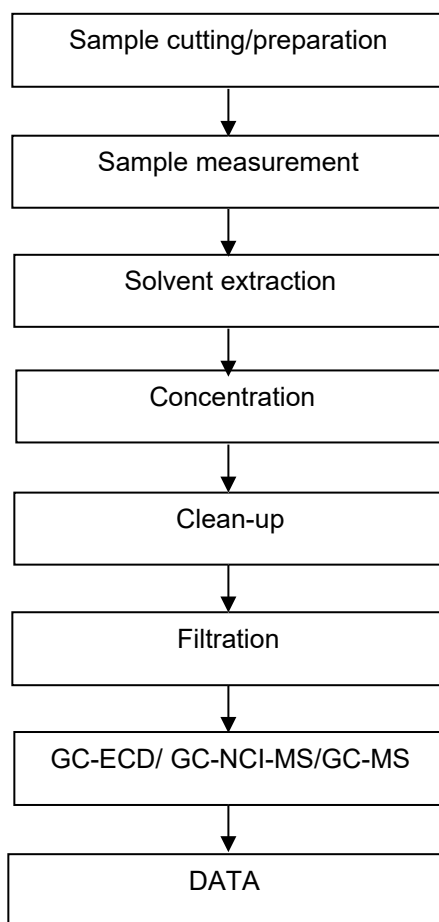
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Chlorinated Paraffin Testing Flow Chart



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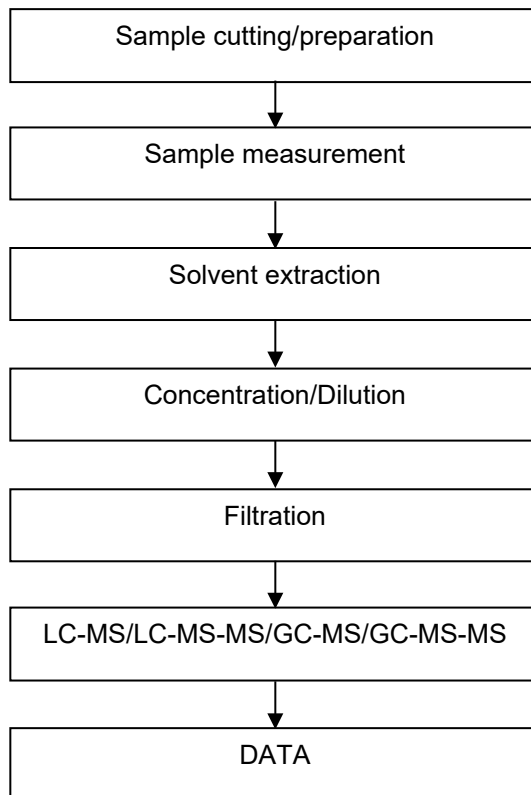
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PFASs/ PFOS/PFOA Testing Flow Chart



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402、603、2510、62mm、ABS、DBS、DFN0603-2L、DFN1006-2L、DFN1006-3L、DFN10x15-5L、DFN10x15-5L-XX、DFN1610-2L、DFN1610-6L、DFN2010-5L、DFN2010-8L、DFN2020-2L、DFN2020-3L、DFN2020-6L、DFN2020-6L-XX、DFN2020-8L、DFN2510-10L、DFN2626-10L、DFN2x2-3L、DFN2x2-6L、DFN2x2-6L-D、DFN2x2-6L-XX、DFN3.0x3.0-8L、DFN3.0x3.0-8L-SD (Type、B)、DFN3.3x3.3-8L-XX、DFN3.0x3.0-8L-XX、DFN3.3x3.3-8L、DFN3.3x3.3-8L (Type、B)、DFN3.3x3.3-8L-XX、DFN3020-10L、DFN3030-8L、DFN3030-8L-XX、DFN3030-12L、DFN3333-2L、DFN3333-8L、DFN3810-9L、DFN3x3-8L-XX、DFN4120-10L、DFN5060-8L、DFN5060-8L-XX、DFN5515-18L、DFN5x6-8L、DFN5x6-8L(Dual)、DFN5x6-8L-XX、DFN8080-2L、DFN8080-4L、DFN8x8-2L、DFN8x8-4L、DFN8x8-4L-XX、DIP-4、DIP-5、DO-15、DO-218AB、DO-27、DO-41、DriveJM-34、DriveJM-62、DriveJM-DC、DriveJM-E1、DriveJM-E2、DriveJM-EC、DriveJM-ED、DriveJM-H1、DriveJM-H2、EasyPack1B、EconoDual、ESOP-8、F3、FBP-02C-A、GBJ、GBL、GBU、IGBT-34mm、ITO-247、ITO-247-XX、KBL、KBP、LSOP-4、MBF、MBS、P6、PDFN3.3x3.3-8L、PDFN3.3x3.3-8L-XX、PDFN3x3-8L、PDFN3x3-8L-XX、PDFN5x6-8L、PDFN5x6-8L-XX、PowerJE10x12、PowerJE5x6、PowerJE7x8、PowerJE8x8、PPTC、R6、SGBJ、SGD0201、SGD0402、SMA、SMAF、SMB、SMBF、SMC、SMC-3、SMD-3225、SMD-4032、SMD-5、SMT、SMT-4、SMTF、SMTJ、SMT0-218Tab、SOD-123、SOD-123FL、SOD-123FLT、SOD-323、SOD-323F、SOD-323FL、SOD-523、SOD-723、SOD-923、SOP-10、SOP-16、SOP-4、SOP-5、SOP-7、SOP-8、SOT-143、SOT-143-XX、SOT-223、SOT-223-XX、SOT-227、SOT-227-XX、SOT-23、SOT-23-XX、SOT-323、SOT-323-XX、SOT-353、SOT-353-XX、SOT-363、SOT-363-XX、SOT-523、SOT-523-XX、SOT-563、SOT-563-XX、SOT-723、SOT-723-XX、SOT-82、SOT-89、SOT-89R-XX、SOT-89-XX、SSOP-16、SSOP-4、STOLL7x8-5L、T2B、TO-126、TO-202、TO-202-XX、TO-220A、TO-220A-2D-XX、TO-220AB、TO-220A-XX、TO-220B、TO-220B-XX、TO-220C、TO-220C-XX、TO-220F、TO-220FA、TO-220FA-XX、TO-220FP、TO-220FP-XX、TO-220HF、TO-220H-XX、TO-220MF-3L、TO-220-XX、TO-247、TO-247-XX、TO-247i-XX、TO-247iL-XX、TO-247iPS-XX、TO-247J、TO-247J-XX、TO-247plus、TO-247S、TO-247S-XX、TO-251、TO-251L-XX、TO-251S、TO-251-XX、TO-252、TO-252-XX、TO-262、TO-262-XX、TO-263、TO-263-XX、TO-277B、TO-3P、TO-3P-3L、TO-3PF-3L、TO-3PN-3L、TO-92、TO-92CR、TO-92KR、TO-92KRF、TO-92UR、TO-92-XX、TOLL9.9x10.38-8L、TSSOP-8、TSSOP-8、WSOP-6



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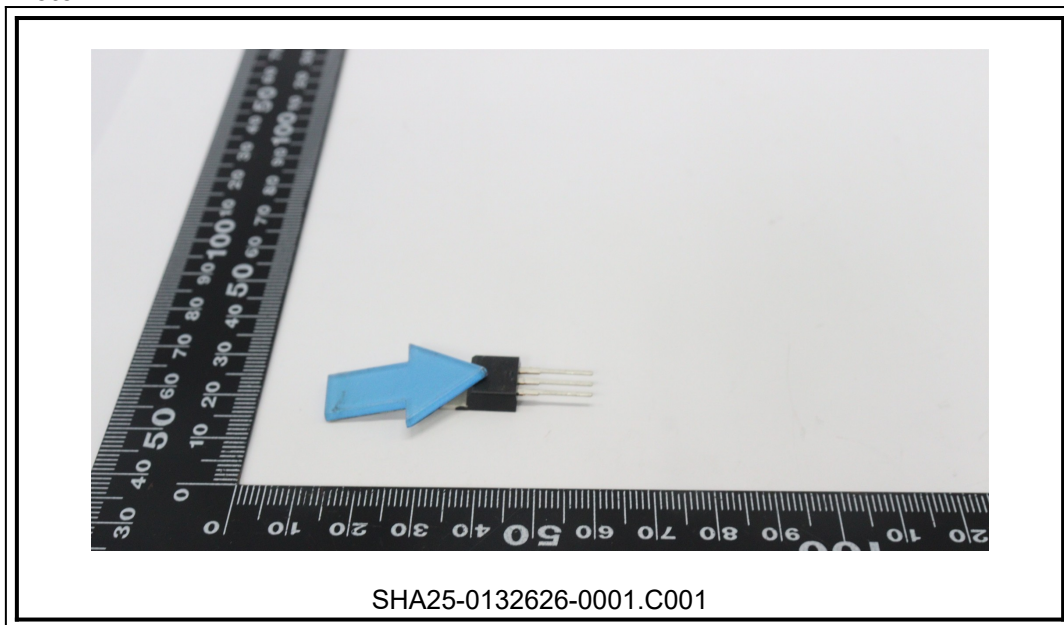
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