# Test Report

No.: EKR25100315M02 Date: 18-Feb-2025 

FORMOSA PLASTICS CORPORATION
NO. 100, SHUI-GUAN RD., RENWU DIST., KAOHSIUNG CITY 814 , TAIWAN

**The following sample(s) was/were submitted and identified by the applicant as:**

| | | |
|---|---|---|
| Sample Submitted By | : | FORMOSA PLASTICS CORPORATION |
| Sample Name | : | PVC POWDER |
| Style/Item No. | : | MLS-65C |

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| | | |
|---|---|---|
| Sample Receiving Date | : | 06-Jan-2025 |
| Testing Period | : | 06-Jan-2025 to 23-Jan-2025 |

**Test Requested** :

(1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) As specified by client, the sample(s) was/ were tested for 5 PBTs with reference to TSCA section 6 and 40 CFR Part 751. Please refer to result table for testing items.

(3) As specified by client, the sample(s) was/ were tested for specific high priority chemical(s) with reference to TSCA section 6 and 40 CFR Part 751. Please refer to result table for testing item(s).

(4) As requested by the client, the risk of specific PFAS in the selected sample is evaluated. The total amounts of evaluated PFAS are 477 items, concluding 145 tested items and 332 listed items (see PFAS Remark).

(5) As specified by client, to test PAHs and other item(s).

**Test Results** : Please refer to following pages.

**Conclusion** :

(1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

(2) Based on the performed tests on submitted sample(s), the test results of PBTs comply with the limits as set by TSCA section 6 and 40 CFR Part 751.

(3) Based on the performed tests on submitted sample(s), the test results of specific high priority chemical(s) comply with the limits as set by TSCA section 6 and 40 CFR Part 751.

Ray Chang, Ph.D./Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory-Kaohsiung

PIN CODE: E093B03A

FORMOSA PLASTICS CORPORATION
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**Test Part Description**

No.1 : WHITE POWDER

**Test Result(s)**

| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Cadmium (Cd) | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | 100 |
| Lead (Pb) | | mg/kg | 2 | n.d. | 1000 |
| Mercury (Hg) | With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | 1000 |
| Hexavalent Chromium Cr(VI) | With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS. | mg/kg | 8 | n.d. | 1000 |
| Monobromobiphenyl | With reference to IEC 62321-6: 2015, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Dibromobiphenyl | | mg/kg | 5 | n.d. | - |
| Tribromobiphenyl | | mg/kg | 5 | n.d. | - |
| Tetrabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Pentabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Hexabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Heptabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Octabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Nonabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Decabromobiphenyl | | mg/kg | 5 | n.d. | - |
| **Sum of PBBs** | | mg/kg | - | n.d. | 1000 |
| Monobromodiphenyl ether | With reference to IEC 62321-6: 2015, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Dibromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Tribromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Tetrabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Pentabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Hexabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Heptabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Octabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Nonabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Decabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| **Sum of PBDEs** | | mg/kg | - | n.d. | 1000 |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Polychlorinated biphenyls (PCBs) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 0.5 | n.d. | - |
| Polychlorinated naphthalene (PCNs) | | mg/kg | 5 | n.d. | - |
| Polychlorinated terphenyls (PCTs) | | mg/kg | 0.5 | n.d. | - |
| Short Chain Chlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8) | With reference to ISO 18219-1: 2021, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |
| Formaldehyde (CAS No.: 50-00-0) | With reference to ISO 17226-1: 2021, analysis was performed by LC/DAD. | mg/kg | 3 | n.d. | - |
| Polyvinyl chloride (PVC) | With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test. | ** | - | Positive | - |
| **Asbestos** | | | | | |
| Actinolite (CAS No.: 77536-66-4) | With reference to EPA 600/R-93/116: 1993, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD). | - | - | Negative | - |
| Amosite (CAS No.: 12172-73-5) | | - | - | Negative | - |
| Anthophyllite (CAS No.: 77536-67-5) | | - | - | Negative | - |
| Chrysotile (CAS No.: 12001-29-5) | | - | - | Negative | - |
| Crocidolite (CAS No.: 12001-28-4) | | - | - | Negative | - |
| Tremolite (CAS No.: 77536-68-6) | | - | - | Negative | - |
| **AZO Dyes** | | | | | |
| 4-Aminobiphenyl (CAS No.: 92-67-1) | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3 | n.d. | - |
| Benzidine (CAS No.: 92-87-5) | | mg/kg | 3 | n.d. | - |
| 4-chloro-o-toluidine (CAS No.: 95-69-2) | | mg/kg | 3 | n.d. | - |
| 2-Naphthylamine (CAS No.: 91-59-8) | | mg/kg | 3 | n.d. | - |
| o-Aminoazotoluene (CAS No.: 97-56-3) | | mg/kg | 3 | n.d. | - |
| 5-Nitro-o-toluidine (CAS No.: 99-55-8) | | mg/kg | 3 | n.d. | - |
| 4-Chloroaniline (CAS No.: 106-47-8) | | mg/kg | 3 | n.d. | - |
| 4-Methoxy-m-phenylenediamine / 2,4-Diaminoanisole (CAS No.: 615-05-4) | | mg/kg | 3 | n.d. | - |
| 4,4'-Diaminodiphenylmethane (CAS No.: 101-77-9) | | mg/kg | 3 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result No.1 | Limit |
|---|---|---|---|---|---|
| 3,3'-Dichlorobenzidine (CAS No.: 91-94-1) | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3 | n.d. | - |
| 3,3'-Dimethoxybenzidine (CAS No.: 119-90-4) | | mg/kg | 3 | n.d. | - |
| 3,3'-Dimethylbenzidine (CAS No.: 119-93-7) | | mg/kg | 3 | n.d. | - |
| 4,4'-Methylenedi-o-toluidine (CAS No.: 838-88-0) | | mg/kg | 3 | n.d. | - |
| 6-Methoxy-m-toluidine (CAS No.: 120-71-8) | | mg/kg | 3 | n.d. | - |
| 4,4'-Methylene-bis-(2-chloro-Aniline) (CAS No.: 101-14-4) | | mg/kg | 3 | n.d. | - |
| 4,4'-Oxydianiline (CAS No.: 101-80-4) | | mg/kg | 3 | n.d. | - |
| 4,4'-Thiodianiline (CAS No.: 139-65-1) | | mg/kg | 3 | n.d. | - |
| o-Toluidine (CAS No.: 95-53-4) | | mg/kg | 3 | n.d. | - |
| 2,4-Diaminotoluene (CAS No.: 95-80-7) | | mg/kg | 3 | n.d. | - |
| 2,4,5-Trimethylaniline (CAS No.: 137-17-7) | | mg/kg | 3 | n.d. | - |
| 2-Methoxyaniline (CAS No.: 90-04-0) | | mg/kg | 3 | n.d. | - |
| 4-Aminoazobenzene (CAS No.: 60-09-3) | With reference to EN ISO 14362-1: 2017 and EN ISO 14362-3: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3 | n.d. | - |
| 2,4-Xylidine (CAS No.: 95-68-1) | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3 | n.d. | - |
| 2,6-Xylidine (CAS No.: 87-62-7) | | mg/kg | 3 | n.d. | - |
| Beryllium (Be) (CAS No.: 7440-41-7) | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | - |
| Beryllium oxide (BeO) (CAS No.: 1304-56-9) | Calculated from the result of Beryllium. | mg/kg | 2▲ | n.d. | - |
| Perchlorate (CAS No.: 14797-73-0) | Analysis was performed by IC. | μg/g | 0.1 | N.D.<0.100~μg/g | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Cobalt dichloride ($CoCl_2$) (CAS No.: 7646-79-9) | With reference to RSTS-EE-SVHC-007, analysis was performed by ICP-OES, IC. Calculated from the results of Cobalt, Chlorine. | mg/kg | 50 | n.d. | - |
| Cobalt (Co) (CAS No.: 7440-48-4) | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | - |
| Dimethyl fumarate (DMFu) (CAS No.: 624-49-7) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Tris(1-chloro-2-propyl) phosphate (TCPP) (CAS No.: 13674-84-5) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Tris(1,3-dichloro-2-propyl) phosphate (CAS No.: 13674-87-8) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | With reference to IEC 62321: 2008, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | With reference to IEC 62321-9: 2021, analysis was performed by GC/MS. | mg/kg | 20 | n.d. | - |
| Tributyl tin (TBT) | With reference to ISO 17353: 2004, analysis was performed by GC/FPD. | mg/kg | 0.03 | n.d. | - |
| Triphenyl tin (TPT) | With reference to ISO 17353: 2004, analysis was performed by GC/FPD. | mg/kg | 0.03 | n.d. | - |
| Dibutyl tin (DBT) | With reference to ISO 17353: 2004, analysis was performed by GC/FPD. | mg/kg | 0.03 | n.d. | - |
| Dioctyl tin (DOT) | With reference to ISO 17353: 2004, analysis was performed by GC/FPD. | mg/kg | 0.03 | n.d. | - |
| Di-(2-ethylhexyl) phthalate (DEHP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | 1000 |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Dibutyl phthalate (DBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | 1000 |
| Butyl benzyl phthalate (BBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | 1000 |
| Diisobutyl phthalate (DIBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | 1000 |
| Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |
| Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |
| Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |
| Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |
| **Chlorofluorocarbons (CFCs)** | | | | | |
| Chlorofluorocarbon-11 (CAS No.: 75-69-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-12 (CAS No.: 75-71-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-13 (CAS No.: 75-72-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-111 (CAS No.: 954-56-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-112 (CAS No.: 76-12-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-113 (CAS No.: 76-13-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-114 (CAS No.: 76-14-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-115 (CAS No.: 76-15-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-211 (CAS No.: 422-78-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-212 (CAS No.: 3182-26-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Chlorofluorocarbon-213 (CAS No.: 2354-06-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-214 (CAS No.: 29255-31-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-215 (CAS No.: 4259-43-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-216 (CAS No.: 661-97-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chlorofluorocarbon-217 (CAS No.: 422-86-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| **Hydrochlorofluorocarbons (HCFCs)** | | | | | |
| Hydrochlorofluorocarbon-21 (HCFC-21) (CAS No.: 75-43-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-22 (HCFC-22) (CAS No.: 75-45-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-31 (HCFC-31) (CAS No.: 593-70-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-121 (HCFC-121) (CAS No.: 354-14-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-122 (HCFC-122) (CAS No.: 354-21-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-123 (HCFC-123) (CAS No.: 306-83-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-124 (HCFC-124) (CAS No.: 2837-89-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-131 (HCFC-131) (CAS No.: 359-28-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-141b (HCFC-141b) (CAS No.: 1717-00-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-221 (HCFC-221) (CAS No.: 422-26-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-222 (HCFC-222) (CAS No.: 422-49-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-223 (HCFC-223) (CAS No.: 422-52-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Hydrochlorofluorocarbon-224 (HCFC-224) (CAS No.: 422-54-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-225ca (HCFC-225ca) (CAS No.: 422-56-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-225cb (HCFC-225cb) (CAS No.: 507-55-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-226 (HCFC-226) (CAS No.: 431-87-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-231 (HCFC-231) (CAS No.: 421-94-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-232 (HCFC-232) (CAS No.: 460-89-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-233 (HCFC-233) (CAS No.: 7125-84-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-234 (HCFC-234) (CAS No.: 425-94-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-235 (HCFC-235) (CAS No.: 460-92-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-241 (HCFC-241) (CAS No.: 666-27-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-242 (HCFC-242) (CAS No.: 460-63-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-243 (HCFC-243) (CAS No.: 460-69-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-244 (HCFC-244) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-251 (HCFC-251) (CAS No.: 421-41-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-252 (HCFC-252) (CAS No.: 819-00-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-253 (HCFC-253) (CAS No.: 460-35-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-261 (HCFC-261) (CAS No.: 420-97-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-262 (HCFC-262) (CAS No.: 421-02-03) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |

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|---|---|---|---|---|---|
| | | | | No.1 | |
| Hydrochlorofluorocarbon-271 (HCFC-271) (CAS No.: 430-55-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-133a (HCFC-133a) (CAS No.: 75-88-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-142b (HCFC-142b) (CAS No.: 75-68-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-132b (HCFC-132b) (CAS No.: 1649-08-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-141 (HCFC-141) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-142 (HCFC-142) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-151 (HCFC-151) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hydrochlorofluorocarbon-225 (HCFC-225) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| **Halons** | | | | | |
| Halon-1211 (CAS No.: 353-59-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Halon-1301 (CAS No.: 75-63-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Halon-2402 (CAS No.: 124-73-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Bromomethane (CAS No.: 74-83-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| **Hydrobromofluorocarbons (HBFCs)** | | | | | |
| HBFC-121B4 (C2HFBr4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-122B3 (C2HF2Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-123B2 (C2HF3Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-124B1 (C2HF4Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-131B3 (C2H2FBr3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| HBFC-132B2 (C2H2F2Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-133B1 (C2H2F3Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-141B2 (C2H3FBr2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-142B1 (C2H3F2Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-151B1 (C2H4FBr) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-21B2 (CHFBr2) (CAS No.: 1868-53-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-221B6 (C3HFBr6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-222B5 (C3HF2Br5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-223B4 (C3HF3Br4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-224B3 (C3HF4Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-225B2 (C3HF5Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-226B1 (C3HF6Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-22B1 (CHF2Br) (CAS No.: 1511-62-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-231B5 (C3H2FBr5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-232B4 (C3H2F2Br4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-233B3 (C3H2F3Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-234B2 (C3H2F4Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-235B1 (C3H2F5Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| HBFC-241B4 (C3H3FBr4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-242B3 (C3H3F2Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-243B2 (C3H3F3Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-244B1 (C3H3F4Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-251B3 (C3H4FBr3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-252B2 (C3H4F2Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-253B1 (C3H4F3Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-261B2 (C3H5FBr2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-262B1 (C3H5F2Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-271B1 (C3H6FBr) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HBFC-31B1 (CH2FBr) (CAS No.: 373-52-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| **Chlorinate hydrocarbon (CHCs)** | | | | | |
| Carbon tetrachloride (CAS No.: 56-23-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,1,1-Trichloroethane (CAS No.: 71-55-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,1,1,2-Tetrachloroethane (CAS No.: 630-20-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,1,2,2-Tetrachloroethane (CAS No.: 79-34-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,1,2-Trichloroethane (CAS No.: 79-00-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,1-Dichloroethane (CAS No.: 75-34-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |

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|---|---|---|---|---|---|
| | | | | No.1 | |
| 1,1-Dichloroethylene (CAS No.: 75-35-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,1-Dichloropropene (CAS No.: 563-58-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,2,3-Trichloropropane (CAS No.: 96-18-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,2-Dichloroethane (CAS No.: 107-06-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,2-Dichloropropane (CAS No.: 78-87-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,3-Dichloropropane (CAS No.: 142-28-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 2,2-Dichloropropane (CAS No.: 594-20-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chloroform (CAS No.: 67-66-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chloromethane (CAS No.: 74-87-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| cis-1,2-Dichloroethene (CAS No.: 156-59-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| cis-1,3-Dichloropropene (CAS No.: 10061-01-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Dichloromethane (CAS No.: 75-09-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Tetrachloroethene (CAS No.: 127-18-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| trans-1,2-Dichloroethene (CAS No.: 156-60-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| trans-1,3-Dichloropropene (CAS No.: 10061-02-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Trichloroethylene (CAS No.: 79-01-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Chloroethane (CAS No.: 75-00-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Hexachlorobutadiene (CAS No.: 87-68-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |

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|---|---|---|---|---|---|
| **Hydrofluorocarbon (HFCs)** | | | | | |
| HFC-23 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-32 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-41 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-43-10mee | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-125 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-134 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-134a | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-143 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-143a | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-152a | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-227ea | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-236fa | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-245ca | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-245fa | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-365mfc | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-236ea | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-236cb | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| HFC-161 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| HFC-152 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| **Perfluorocarbon (PFCs)** | | | | | |
| Perfluorohexane (CAS No.: 355-42-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 2-Perfluoromethylpentane (CAS No.: 355-04-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Perfluoro-n-pentane (CAS No.: 678-26-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Freon C318 (CAS No.: 115-25-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Decafluorobutane (CAS No.: 355-25-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Freon 218 (CAS No.: 76-19-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Fluorocarbon 116 (CAS No.: 76-16-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Freon-14 (CAS No.: 75-73-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Perfluorodecalin (CAS No.: 306-94-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Sulphur hexafluoride (SF6) (CAS No.: 2551-62-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1-Bromopropane (CAS No.: 106-94-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Bromoethane (CAS No.: 74-96-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Trifluoroiodomethane (CAS No.: 2314-97-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 2-Bromo-3,3,3-trifluoroprop-1-ene (CAS No.: 1514-82-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Bromochloromethane (CAS No.: 74-97-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |

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|---|---|---|---|---|---|
| | | | | No.1 | |
| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS No.: 3846-71-7) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Fluorine (F) (CAS No.: 14762-94-8) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. | - |
| Chlorine (Cl) (CAS No.: 22537-15-1) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | 562000 | - |
| Bromine (Br) (CAS No.: 10097-32-2) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. | - |
| Iodine (I) (CAS No.: 14362-44-8) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. | - |
| Nickel (Ni) (CAS No.: 7440-02-0) | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | - |
| Radioactive substances | Geiger counter. | μSv/hour | - | Negative* | - |
| Arsenic (As) (CAS No.: 7440-38-2) | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | - |
| Diarsenic trioxide ($As_2O_3$) (CAS No.: 1327-53-3) | Calculated from the result of Arsenic. | mg/kg | 2▲ | n.d. | - |
| Diarsenic pentaoxide ($As_2O_5$) (CAS No.: 1303-28-2) | Calculated from the result of Arsenic. | mg/kg | 2▲ | n.d. | - |
| Bisphenol A (CAS No.: 80-05-7) | With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS. | mg/kg | 1 | n.d. | - |
| 1,6,7,8,9,14,15,16,17, 17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ( “Dechlorane Plus” TM) [covering any of its individual anti- and syn-isomers or any combination thereof] | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Decabromodiphenylethane (CAS No.: 84852-53-9) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |

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|---|---|---|---|---|---|
| | | | | No.1 | |
| Decabromodiphenyl ether (DecaBDE) (CAS No.: 1163-19-5) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | 1000 / N/A(*3) |
| Phenol, isopropylated, phosphate (3:1) (PIP 3:1) (CAS No.: 68937-41-7) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | 1000 / N/A(*1) |
| 2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP) (CAS No.: 732-26-3) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | 3000 / N/A(*2) |
| Pentachlorothiophenol (PCTP) (CAS No.: 133-49-3) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | 10000 |
| Hexachlorobutadiene (HCBD) (CAS No.: 87-68-3) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | Prohibited |
| Methylene chloride (CAS No.: 75-09-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | 1000 / N/A(*4) |
| 1-Bromopropane (CAS No.: 106-94-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,4-Dioxane (CAS No.: 123-91-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1-Methyl-2-pyrrolidone (CAS No.: 872-50-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,3-butadiene (CAS No.: 106-99-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,2-Dichlorobenzene (CAS No.: 95-50-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1,4-Dichlorobenzene (CAS No.: 106-46-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Di-cyclohexyl phthalate (DCHP) (CAS No.: 84-61-7) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |
| 1,2-Dibromoethane (CAS No.: 106-93-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7) | With reference to RSTS-E&E-121, analysis was performed by LC/MS. | mg/kg | 10 | n.d. | - |
| Triphenyl phosphate (TPP) (CAS No.: 115-86-6) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Phthalic anhydride (CAS No.: 85-44-9) | With reference to US EPA 3550C: 2007, analysis was performed by LC/MS. | mg/kg | 50 | n.d. | - |

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|---|---|---|---|---|---|
| | | | | No.1 | |
| Pigment Violet 29 (CAS No.: 81-33-4) | With reference to US EPA 3550C: 2007, analysis was performed by LC/DAD. | mg/kg | 50 | n.d. | - |
| Galaxolide (HHCB) (CAS No.: 1222-05-5) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Hexachlorobenzene (CAS No.: 118-74-1) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Polychlorinated phenols | With reference to US EPA 8041A: 2007, analysis was performed by GC/MS. | mg/kg | 10 | n.d. | - |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) (CAS No.: 25973-55-1) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| **PFAS** | | | | | |
| **PFHxA and its salts** | | | | | |
| Perfluorohexane acid and its salts (PFHxA and its salts) (CAS No.: 307-24-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| **PFHxA related compounds** | | | | | |
| 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) (CAS No.: 647-42-7) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA) (CAS No.: 17527-29-6) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-perfluorooctyl methacrylate (6:2 FTMA) (CAS No.: 2144-53-8) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorooctanesulphonic acid and its salts (6:2 FTS and its salts) (CAS No.: 27619-97-2 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI) (CAS No.: 2043-57-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluorohexyl iodide (PFHxI) (CAS No.: 355-43-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| N-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)iodoacetamide (CAS No.: 852527-50-5) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorooctyl triethoxysilane (POTS) (CAS No.: 51851-37-7) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorooctyltrichlorosilane (6:2 FTSiCl3) (CAS No.: 78560-45-9) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Mono[2-(perfluorohexyl)ethyl] phosphate and its salts (6:2 monoPAP and its salts) (CAS No.: 57678-01-0 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| 2-Iodo-1H,1H,1H,2H,3H,3H-perfluorononane (CAS No.: 38550-34-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide (CAS No.: 80475-32-7) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| Thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester (CAS No.: 26650-09-9) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA) (CAS No.: 27854-30-4) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| 1H,1H,2H,2H-Perfluorooctanethiol (6:2 FTSH) (CAS No.: 34451-26-8) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe2Cl) (CAS No.: 102488-47-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 1-Iodo-1H,1H-Perfluoroheptane (6:1 FTI) (CAS No.: 212563-43-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 3-(Perfluorohexyl)propyl iodide (6:3 FTI) (CAS No.: 89889-20-3) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 1H,1H,2H,2H-Perfluorooctanephosphonic acid and its salts (6:2 FTPA and its salts) (CAS No.: 252237-40-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H-Perfluorohexan-1-ol (5:1 FTOH) (CAS No.: 423-46-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.2 | n.d. | - |
| 1H,1H-Perfluoro-1-heptanol (6:1 FTOH) (CAS No.: 375-82-6) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.2 | n.d. | - |
| 3-(Perfluorohexyl)propanol (6:3 FTOH) (CAS No.: 80806-68-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 3,3,4,4,5,5,6,6,7,7,7-Undecafluoro-2-heptanol (CAS No.: 914637-05-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.2 | n.d. | - |
| 1-(Perfluorohexyl)octane (F6H8) (CAS No.: 133331-77-8) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 1H,1H-Perfluoroheptylamine (6:1 FTNH2) (CAS No.: 423-49-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| Perfluorohexyl ethylene (PFHxE) (CAS No.: 25291-17-2) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| **PFHxS and its salts** | | | | | |
| Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result No.1 | Limit |
|---|---|---|---|---|---|
| **PFHxS related compounds** | | | | | |
| N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA) (CAS No.: 68259-15-4) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorohexane sulfonamide (PFHxSA) (CAS No.: 41997-13-1) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| N-[3-(dimethylamino)propyl]tridecafluoro hexanesulphonamide (N-AP-FHxSA) (CAS No.: 50598-28-2) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 2-[Methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate (N-MeFHSEA) (CAS No.: 67584-57-0) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 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 (CAS No.: 67584-61-6) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 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 (CAS No.: 67906-70-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl- (MeFHxSE) (CAS No.: 68555-75-9) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] and its salts (EtFHxSAA and its salts) (CAS No.: 68957-32-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| **PFOS and its salts** | | | | | |
| Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| **PFOS related compounds** | | | | | |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) (CAS No.: 4151-50-2) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| N-Methyl-Perfluoroctanesulfonamide (N-Me-FOSA) (CAS No.: 31506-32-8) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| N-Ethyl-Perfluoroctanesulfonamidoethanol (N-Et-FOSE alcohol) (CAS No.: 1691-99-2) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| N-Methyl-Perfluoroctanesulfonamidoethanol (N-Me-FOSE alcohol) (CAS No.: 24448-09-7) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluoroctanesulfonamide and its salts (PFOSA and its salts) (CAS No.: 754-91-6 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| **PFOA and its salts** | | | | | |
| Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| **PFOA related compounds** | | | | | |
| Methyl perfluorooctanoate (Me-PFOA) (CAS No.: 376-27-2) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Ethyl perfluorooctanoate (Et-PFOA) (CAS No.: 3108-24-5) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluoro-1-iodooctane (PFOI) (CAS No.: 507-63-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 3-Perfluoroheptyl propanoic acid (7:3 FTCA) (CAS No.: 812-70-4) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid and its salts (8:2 FTS and its salts) (CAS No.: 39108-34-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (CAS No.: 678-39-7) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) (CAS No.: 27905-45-9) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) (CAS No.: 1996-88-9) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 2H,2H-Perfluorodecane acid and its salts (H2PFDA and its salts) (CAS No.: 27854-31-5 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecyl iodide (8:2 FTI) (CAS No.: 2043-53-0) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi($OC_2H_5$)$_3$) (CAS No.: 101947-16-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 2H,2H,3H,3H-Perfluoroundecanoic acid and its salts (4HPFUnA and its salts) (CAS No.: 34598-33-9 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H-Heptadecafluoro-1-decene (PFDE) (CAS No.: 21652-58-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate and its salts (8:2 diPAP and its salts) (CAS No.: 678-41-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| **C9-C20 PFCAs its salts and related compounds** | | | | | |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid and its salts (8:2 FTS and its salts) (CAS No.: 39108-34-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (CAS No.: 678-39-7) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.1 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) (CAS No.: 27905-45-9) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) (CAS No.: 1996-88-9) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 2H,2H-Perfluorodecane acid and its salts (H2PFDA and its salts) (CAS No.: 27854-31-5 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecyl iodide (8:2 FTI) (CAS No.: 2043-53-0) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi($OC_2H_5$)$_3$) (CAS No.: 101947-16-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 2H,2H,3H,3H-Perfluoroundecanoic acid and its salts (4HPFUnA and its salts) (CAS No.: 34598-33-9 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H-Heptadecafluoro-1-decene (PFDE) (CAS No.: 21652-58-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate and its salts (8:2 diPAP and its salts) (CAS No.: 678-41-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorononan-1-oic acid and its salts (PFNA and its salts) (CAS No.: 375-95-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (CAS No.: 172155-07-6) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorodecane acid and its salts (PFDA and its salts) (CAS No.: 335-76-2 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Perfluoroundecanoic acid and its salts (PFUnDA and its salts) (CAS No.: 2058-94-8 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorododecanoic acid and its salts (PFDoDA and its salts) (CAS No.: 307-55-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorodecane sulfonate and its salts (PFDS and its salts) (CAS No.: 335-77-3 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Pentacosafluorotridecanoic acid and its salts (PFTrDA and its salts) (CAS No.: 72629-94-8 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorotetradecanoic acid and its salts (PFTDA and its salts) (CAS No.: 376-06-7 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) (CAS No.: 865-86-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA) (CAS No.: 17741-60-5) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) (CAS No.: 2144-54-9) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorotetradecan-1-ol (12:2 FTOH) (CAS No.: 39239-77-5) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorododecane sulfonic acid and its salts (10:2 FTS and its salts) (CAS No.: 120226-60-0 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI) (CAS No.: 2043-54-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| 1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI) (CAS No.: 30046-31-2) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluorononane sulfonic acid and its salts (PFNS and its salts) (CAS No.: 68259-12-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluoroundecane sulfonic acid and its salts (PFUnDS and its salts) (CAS No.: 749786-16-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorododecane sulfonic acid and its salts (PFDoDS and its salts) (CAS No.: 79780-39-5 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorotridecane sulfonic acid and its salts (PFTrDS and its salts) (CAS No.: 791563-89-8 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 10:2 Fluortelomerphosphatediester and its salts (10:2 diPAP and its salts) (CAS No.: 1895-26-7 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluorododecyl iodide (PFDoDI) (CAS No.: 307-60-8) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluorodecyl iodide (PFDI) (CAS No.: 423-62-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 10:2 Fluortelomerphosphatemonoester (10:2 monoPAP and its salts) (CAS No.: 57678-05-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluoropentadecanoic acid and its salts (PFPeDA and its salts, C15) (CAS No.: 141074-63-7 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluorohexadecanoic acid and its salts (PFHxDA and its salts, C16) (CAS No.: 67905-19-5 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorooctadecanoic acid and its salts (PFODA and its salts, C18) (CAS No.: 16517-11-6 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result No.1 | Limit |
|---|---|---|---|---|---|
| **Other PFAS** | | | | | |
| Perfluorobutane acid and its salts (PFBA and its salts) (CAS No.: 375-22-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorobutane sulfonate and its salts (PFBS and its salts) (CAS No.: 375-73-5 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorobutane sulfon amides (CAS No.: 30334-69-1) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC3H8O) (CAS No.: 34454-97-2) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA) (CAS No.: 1799-84-4) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluoropentane acid and its salts (PFPA and its salts) (CAS No.: 2706-90-3 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluoroheptane acid and its salts (PFHpA and its salts) (CAS No.: 375-85-9 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 7H-Dodecanefluoroheptane acid and its salts (HPFHpA and its salts) (CAS No.: 1546-95-8 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluoroheptane sulfonate and its salts (PFHpS and its salts) (CAS No.: 375-92-8 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluoro-3-methoxypropanoic acid (PFMPA) (CAS No.: 377-73-1) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluoro-4-methoxybutanoic acid (PFMBA) (CAS No.: 863090-89-5) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) (CAS No.: 151772-58-6) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| 4,8-Dioxa-3H-perfluorononanoic acid and its salts (ADONA and its salts) (CAS No.: 919005-14-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) (CAS No.: 2043-47-2) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.4 | n.d. | - |
| 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Perfluorohexanesulfonic acid and its salts (4:2 FTS and its salts) (CAS No.: 757124-72-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorooctane sulfonamidoacetic acid and its salts (FOSAA and its salts) (CAS No.: 2806-24-8 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| N-methylperfluorooctane sulfonamidoacetic acid and its salts (N-MeFOSAA and its salts) (CAS No.: 2355-31-9 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| N-ethylperfluorooctane sulfonamidoacetic acid and its salts (N-EtFOSAA and its salts) (CAS No.: 2991-50-6 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluoropentane sulfonic acid and its salts (PFPeS and its salts) (CAS No.: 2706-91-4 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 3-Perfluoropropyl propanoic acid (3:3 FTCA) (CAS No.: 356-02-5) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 2-Perfluorohexyl ethanoic acid (6:2 FTCA) (CAS No.: 53826-12-3) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 3-Perfluoropentyl propanoic acid (5:3 FTCA) (CAS No.: 914637-49-3) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA) (CAS No.: 113507-82-7) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid and its salts (9Cl-PF3ONS and its salts) (CAS No.: 756426-58-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid and its salts (11Cl-PF3OUdS and its salts) (CAS No.: 763051-92-9 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 2-(N-ethylperfluorooctanesulfamido)ethyl acrylate (EtFOSAC) (CAS No.: 423-82-5) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 11H-Perfluoroundecanoic acid and its salts (11H-PFUnDA and its salts) (CAS No.: 1765-48-6 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| Pentafluoropropionate acid and its salts (PFPrA and its salts) (CAS No.: 422-64-0 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl3) (CAS No.: 78560-44-8) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH3)3) (CAS No.: 83048-65-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | | | | |
| 2H-Perfluoro-2-decenoic acid (8:2 FTUCA) (CAS No.: 70887-84-2) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 2H-Perfluoro-2-octenoic acid (6:2 FTUCA) (CAS No.: 70887-88-6) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA) (CAS No.: 70887-94-4) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 2-Perfluorodecyl ethanoic acid (10:2 FTCA) (CAS No.: 53826-13-4) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| 6:6 Perfluorophosphinic acid and its salts (6:6 PFPi and its salts) (CAS No.: 40143-77-9 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 6:8 Perfluorophosphinic acid (6:8 PFPi) (CAS No.: 610800-34-5) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 8:8 Perfluorophosphinic acid and its salts (8:8 PFPi and its salts) (CAS No.: 40143-79-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H,2H,2H-Heptadecafluorodecyl acetate (8:2 FTOAc) (CAS No.: 37858-04-1) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Mono-[2-(perfluorooctyl)ethyl]phosphate and its salts (8:2 monoPAP and its salts) (CAS No.: 57678-03-2 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.1 | n.d. | - |
| 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-, 1-acetate (10:2 FTOAc) (CAS No.: 37858-05-2) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid and its salts (HFPO-TA and its salts) (CAS No.: 13252-14-7 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.2 | n.d. | - |
| Pentafluoroethane sulfonic acid (PFEtS) (CAS No.: 354-88-1) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Bis[2-(perfluorohexyl)ethyl] phosphate and its salts (6:2 diPAP and its salts) (CAS No.: 57677-95-9 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Trifluoromethanesulfonimide and its salts (TFSI and its salts) (CAS No.: 82113-65-3 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Trifluoromethane sulfonic acid and its salts (TFMS and its salts) (CAS No.: 1493-13-6 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Perfluoropropate sulfonic acid and its salts (PFPrS and its salts) (CAS No.: 423-41-6 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1-pefluoroheptyl ethanol (7:2 secondary) (7:2s FTOH) (CAS No.: 24015-83-6) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 4:2 Fluorotelomer iodide (4:2 FTI) (CAS No.: 2043-55-2) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| Perfluoroheptane-1-sulfinic acid and its salts (PFHpSi and its salts) (CAS No.: 769067-51-8 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Perfluorooctylphosphoic acid and its salts (PFOPA and its salts) (CAS No.: 40143-78-0 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| 1H,1H-Perfluorooctylamine (CAS No.: 307-29-9) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| Perfluoroheptanamide (CAS No.: 2358-22-7) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| Perfluorobutyramide (CAS No.: 662-50-0) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| 1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA) (CAS No.: 52591-27-2) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| N-methylperfluoro-1-butanesulfonamide (CAS No.: 68298-12-4) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide (CAS No.: 34455-03-3) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Ethyl perfluoroisobutyl ether and its isomers (CAS No.: 163702-05-4 and others) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 10 | n.d. | - |
| 1,1,1,2,2,3,4,5,5,5,-decafluoro-Pentane (CAS No.: 138495-42-8) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 10 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|---|---|---|---|---|---|
| | | | | No.1 | |
| Trifluorotoluene (CAS No.: 98-08-8) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1-Chloro-4 (Trifluoromethyl)Benzene (CAS No.: 98-56-6) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| 1H,1H,2H,2H-Perfluorodecylmethyldichlorosilane (CAS No.: 3102-79-2) | With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS. | mg/kg | 0.1 | n.d. | - |
| **Polycyclic Aromatic Hydrocarbons (PAHs)** | | | | | |
| Benzo[a]pyrene (CAS No.: 50-32-8) | With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| Benzo[e]pyrene (CAS No.: 192-97-2) | | mg/kg | 0.2 | n.d. | - |
| Benzo[a]anthracene (CAS No.: 56-55-3) | | mg/kg | 0.2 | n.d. | - |
| Benzo[b]fluoranthene (CAS No.: 205-99-2) | | mg/kg | 0.2 | n.d. | - |
| Benzo[j]fluoranthene (CAS No.: 205-82-3) | | mg/kg | 0.2 | n.d. | - |
| Benzo[k]fluoranthene (CAS No.: 207-08-9) | | mg/kg | 0.2 | n.d. | - |
| Chrysene (CAS No.: 218-01-9) | | mg/kg | 0.2 | n.d. | - |
| Dibenzo[a,h]anthracene (CAS No.: 53-70-3) | | mg/kg | 0.2 | n.d. | - |
| Benzo[g,h,i]perylene (CAS No.: 191-24-2) | | mg/kg | 0.2 | n.d. | - |
| Indeno[1,2,3-c,d]pyrene (CAS No.: 193-39-5) | | mg/kg | 0.2 | n.d. | - |
| Anthracene (CAS No.: 120-12-7) | | mg/kg | 0.2 | n.d. | - |
| Fluoranthene (CAS No.: 206-44-0) | | mg/kg | 0.2 | n.d. | - |
| Phenanthrene (CAS No.: 85-01-8) | | mg/kg | 0.2 | 1.08 | - |
| Pyrene (CAS No.: 129-00-0) | | mg/kg | 0.2 | n.d. | - |
| Naphthalene (CAS No.: 91-20-3) | | mg/kg | 0.2 | 2.56 | - |
| **Sum of 15 PAHs** | | mg/kg | - | 3.64 | - |
| Acenaphthylene (CAS No.: 208-96-8) | With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS. | mg/kg | 0.2 | n.d. | - |
| Acenaphthene (CAS No.: 83-32-9) | | mg/kg | 0.2 | n.d. | - |
| Fluorene (CAS No.: 86-73-7) | | mg/kg | 0.2 | 0.296 | - |

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| Test Item(s) | Method | Unit | MDL | Result No.1 | Limit |
|---|---|---|---|---|---|
| **Mineral oil** | | | | | |
| Mineral Oil Saturated Hydrocarbons (MOSH) (C16-C35) | With reference to JRC GL 2019(JRC115694), analysis was performed by GC-FID/MS. | mg/kg | 1 | n.d. | - |
| Mineral Oil Aromatic Hydrocarbons (MOAH) (3-7 aromatic rings) | | mg/kg | 1 | n.d. | - |
| Mineral Oil Aromatic Hydrocarbons (MOAH) (1-7 aromatic rings) | | mg/kg | 1 | n.d. | - |
| Pentachlorophenol and its salts (CAS No.: 87-86-5 and its salts) | With reference to US EPA 8041A: 2007, analysis was performed by GC/MS. | mg/kg | 1 | n.d. | - |
| Diisooctyl phthalate (DIOP) (CAS No.: 27554-26-3) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |

**Note：**

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected ( Less than MDL)
4. "-" = Not Regulated
5. **= Qualitative analysis (No Unit)
6. Negative = Undetectable ; Positive = Detectable
7. Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
8. ▲ : The MDL was evaluated for element / tested substance.
   Conversion Formula：AX = A × F

| AX | A | F |
|---|---|---|
| Diarsenic pentaoxide | Arsenic | 1.5339 |
| Diarsenic trioxide | Arsenic | 1.3203 |
| Beryllium oxide (BeO) | Beryllium | 2.7753 |

   Parameter Conversion Table： https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others
9. Negative*/Positive*: The test result of Geiger counter is from comparison between test outcome and environment background. In general, there is little radiation dose existing in environment. (Radiation dose from environment background usually less than or equal to 0.2μSv/hr)
   The test result less than environment background was shown as Negative*; the result greater than environment background was shown as Positive*.
10. 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. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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11. Detail explanation of the regulation is available at the following link.
    https://www.ecfr.gov/current/title-40/chapter-I/subchapter-R/part-751?toc=1
12. N/A(*1) : The submitted sample is exempted from the regulated scope if it is anyone of the following :
    - Hydraulic fluids for aviation or military
    - Lubricants and grease
    - New and replacement parts for motor and aerospace vehicles
    - Manufacture of cyanoacrylate adhesives in closed systems
    - Specialized engine air filters for locomotive and marine applications
    - Plastic for recycling from PIP (3:1)-containing products or articles
    - Finished products or articles made of plastic recycled from PIP (3:1)-containing products or articles
    - Distribution in commerce of PIP (3:1)-containing articles before October 31, 2026
    - Circuit boards and wire harnesses, including but not limited to terminal and fuse covers, cable sleeves, casings, connectors, and tapes
    - Articles that contain PIP (3:1), and where PIP (3:1) has not been newly added, for the purpose of repair or maintenance
    - New manufacturing equipment, including in the semiconductor industry, for new heating, ventilation, air-conditioning, refrigeration, and water-heating equipment, new power generating equipment, new laboratory equipment, new commercial electronic equipment
13. N/A(*2) : The submitted sample is exempted from the regulated scope if it is not oil and lubricant additives.
14. N/A(*3) : The submitted sample is exempted from the regulated scope if it is anyone of the following :
    Exempts processing and distribution for recycling of DecaBDE-containing plastic from products or articles and DecaBDE-containing products or articles made from such recycled plastic.
15. N/A(*4) : The limit only applies to chemical or mixture other than consumer paint and coating removal, not applies to article.
16. This is the additional test report of EKR25100315.

**MOSH & MOAH (Mineral oil) Remark :**

<table>
<tr><td colspan="4">Decree of April 13, 2022 (Arrêté du 13 avril 2022, the Decree), specifying the substances contained in mineral oils whose use is prohibited on packaging and printing intended for the public</td></tr>
<tr><td rowspan="2">Substance</td><td colspan="3">Effective Date</td></tr>
<tr><td>2023/1/1</td><td colspan="2">2025/1/1</td></tr>
<tr><td>MOSH (C16~C35)</td><td>/</td><td colspan="2">0.1 %</td></tr>
<tr><td rowspan="2">MOAH (1-7 aromatic rings)</td><td rowspan="2">1%</td><td>MOAH (1-7 aromatic rings)</td><td>0.1 %</td></tr>
<tr><td>MOAH (3-7 aromatic rings)</td><td>1 ppm</td></tr>
</table>

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**PAHs Remark：**

**Δ AfPS (German commission for Product Safety): GS PAHs requirements**

| Parameter | Category 1 | Category 2 | | Category 3 | |
|---|---|---|---|---|---|
| | Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds). | Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin. | | Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≦30 seconds). | |
| | | a. Use by children under 14 | b. Other consumer products | a. Use by children under 14 | b. Other consumer products |
| Naphthalene | < 1 | < 2 | | < 10 | |
| Phenanthrene | < 1 Sum | < 5 Sum | < 10 Sum | < 20 Sum | < 50 Sum |
| Anthracene | | | | | |
| Fluoranthene | | | | | |
| Pyrene | | | | | |
| Benzo[a]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Chrysene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[b]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[j]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[k]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[a]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[e]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Indeno[1,2,3-c,d] pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Dibenzo[a,h]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[g,h,i]perylene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Sum of 15 PAH | < 1 | < 5 | < 10 | < 20 | < 50 |

Unit：mg/kg

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**PFAS Remark：**

The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.)

| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFBA, its salts | Perfluorobutane acid (PFBA) | 375-22-4 |
| | Ammonium perfluorobutanoate (PFBA-$NH_4$) | 10495-86-0 |
| | Sodium perfluorobutanoate (PFBA-Na) | 2218-54-4 |
| | Potassium heptafluorobutanoate (PFBA-K) | 2966-54-3 |
| | Silver perfluorobutanoate (PFBA-Ag) | 3794-64-7 |
| | Lithium perfluorobutanoate (PFBA-Li) | 4146-76-3 |
| | Heptafluorobutanoic acid-piperazine (1:1) | 375-04-2 |
| | Perfluorobutanoate (anion) | 45048-62-2 |
| PFBS, its salts & derivatives | Perfluorobutane sulfonate (PFBS) | 375-73-5 |
| | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, sodium salt (1:1) (PFBS-Na) | 60453-92-1 |
| | Lithium perfluorobutanesulfonate (PFBS-Li) | 131651-65-5 |
| | Magnesium perfluorobutanesulfonate (PFBS-Mg) | 507453-86-3 |
| | Perfluorobutane Sulfonate K-salt (PFBS-K) | 29420-49-3 |
| | Perfluorobutane sulfonyl fluoride (PFBS-F) | 375-72-4 |
| | Tetraethylammonium perfluorobutanesulfonate (PFBS-$N(CH_3CH_2)_4$) | 25628-08-4 |
| | Triphenylsulfanium perfluorobutane sulfonate (TPS-PFBS) | 144317-44-2 |
| | Dimethyl(phenyl)sulfanium perfluorobutane sulfonate | 220133-51-7 |
| | Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate | 220689-12-3 |
| | Morpholinium perfluorobutanesulfonate | 503155-89-3 |
| | Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-$NH_4$) | 68259-10-9 |
| | NonafluorobutanesulfonicacidHydrate | 59933-66-3 |
| | Nonafluoro-1-butanesulfonyl chloride (PFBS-Cl) | 2991-84-6 |
| | Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-$I(C_6H_4)_2(C_4H_9)_2$) | 194999-85-4 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFBS, its salts & derivatives | 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFBS-NH($C_2H_5O)_2$) | 70225-18-2 |
| | 1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-$SC_{18}H_{23}O$) | 209482-18-8 |
| | Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N($C_4H_9)_4$)) | 108427-52-7 |
| | Diphenyliodanium nonafluorobutane-1-sulfonate((PFBS-I($C_6H_5)_2$)) | 194999-82-1 |
| | Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 241806-75-7 |
| | Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 425670-64-0 |
| | Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 867373-18-0 |
| | Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 1015420-87-7 |
| | 1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 905972-83-0 |
| | 1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 1001557-05-6 |
| | 2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 374571-81-0 |
| | Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 857285-80-4 |
| | 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 124472-66-8 |
| | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn) | 502457-69-4 |
| | 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 56773-55-8 |
| | Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N($CH_3)_4$) | 25628-17-5 |
| | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride | 36913-91-4 |
| | Perfluorobutane sulfonate (anion) | 45187-15-3 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFBS, its salts & derivatives | 1-(4-butoxy-1-naphthalenyl)tetrahydrothiophenium - 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate | EC No. 468-770-4 |
| | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, compd. with N,N-diethylethanamine (1:1) | 182059-38-7 |
| | 1-Octanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 334529-55-4 |
| | Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 334529-62-3 |
| | Pyridinium, 1-butyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 334529-64-5 |
| | 1-Octanaminium, N-methyl-N,N-dioctyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 495417-51-1 |
| | Sulfonium, tris(4-methylphenyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 722538-68-3 |
| PFPA, its salts | Perfluoropentane acid (PFPA) | 2706-90-3 |
| | Sodium perfluoropentanoate (PFPA-Na) | 2706-89-0 |
| | Potasium perfluoropentanoate (PFPA-K) | 336-23-2 |
| | Ammonium perfluoropentanoate (PFPA-$NH_4$) | 68259-11-0 |
| | Lithium perfluoropentanoate (PFPA-Li) | 198482-22-3 |
| | Silver perfluoropentanoate (PFPA-Ag) | 2795-30-4 |
| | Perfluoropentanoate (anion) | 45167-47-3 |
| | Pentanoic acid, 2,2,3,3,4,4,5,5,5-nonafluoro-, compd. with phenylmethyl carbamimidothioate (1:1) (PFPeA-$C_8H_{10}N_2S$) | 64808-55-5 |
| | Nonafluoropentanoic anhydrid (PFPeAA) | 308-28-1 |
| PFHxA, its salts & derivatives | Perfluorohexane acid (PFHxA) | 307-24-4 |
| | Ammonium perfluorohexanoate (PFHxA-$NH_4$) | 21615-47-4 |
| | Sodium perfluorohexanoate (PFHxA-Na) | 2923-26-4 |
| | Potassium perfluorohexanoate (PFHxA-K) | 3109-94-2 |
| | Perfluorohexanoyl fluoride (PFHxA-F) | 355-38-4 |
| | Silver perfluorohexanoate (PFHxA-Ag) | 336-02-7 |
| | Lithium perfluorohexanoate (PFHxA-Li) | 90430-61-8 |
| | Perfluorohexanoic anhydride | 308-13-4 |
| | Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl) | 423-47-2 |
| | Perfluorohexanoate (anion) | 92612-52-7 |
| | Perfluorohexanoyl chloride (PFHxA-Cl) | 335-53-5 |
| | Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-, compd. with 1-hexanamine (1:1) (PFHxA-$C_6H_{15}N$) | 565225-91-4 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFHxA, its salts & derivatives | Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-, compd. with 1-phenylpiperazine (1:1) (PFHxA-$C_{10}H_{14}N_2$) | 985-60-4 |
| 6:2 FTS, its salts | 1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS) | 27619-97-2 |
| | Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na) | 27619-94-9 |
| | Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K) | 59587-38-1 |
| | Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-$NH_4$) | 59587-39-2 |
| | 1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, barium salt (2:1) (6:2 FTS-Ba) | 1807944-82-6 |
| | 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-sulfonate (6:2 FTS(anion)) | 425670-75-3 |
| PFHxS, its salts & derivatives | Perfluorohexane sulfonate (PFHxS) | 355-46-4 |
| | Perfluorohexanesulfonate Na-salt (PFHxS-Na) | 82382-12-5 |
| | Perfluorohexanesulfonate K-salt (PFHxS-K) | 3871-99-6 |
| | Ammonium perfluorohexanesulfonate (PFHxS-$NH_4$) | 68259-08-5 |
| | Perfluorohexanesulfonate Li-salt (PFHxS-Li) | 55120-77-9 |
| | Perfluorohexanesulfonate Zn-salt (PFHxS-Zn) | 70136-72-0 |
| | Perflurohexane sulphonyl fluoride (PFHxS-F) | 423-50-7 |
| | Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | 1000597-52-3 |
| | N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate | 108427-54-9 |
| | N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate (1:1) | 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) | 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) | 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) | 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) | 1310480-28-4 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFHxS, its salts & derivatives | 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) | 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) | 1329995-69-8 |
| | Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | 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) | 1462414-59-0 |
| | Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | 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) | 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) | 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) | 213740-81-9 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI) | 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) | 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) | 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 acid | 421555-74-0 |
| | Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | 425670-70-8 |
| | Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) | 70225-16-0 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFHxS, its salts & derivatives | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1) | 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) | 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) | 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) | 911027-68-4 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-CsH) | 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) | 928049-42-7 |
| | Perfluorohexylsulfonyl chloride (PFHxS-Cl) | 55591-23-6 |
| | Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate | 911027-69-5 |
| | Perfluorohexane sulfonate (anion) | 108427-53-8 |
| | Tetrabutylphosphonium tridecafluorohexane-1-sulfonate (PFHxS-P $(C_4H_9)_4$) | 2310194-12-6 |
| EtFHxSAA, its salts | 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 |
| PFHpA, its salts | Perfluoroheptane acid (PFHpA) | 375-85-9 |
| | Sodium perfluoroheptanoate (PFHpA-Na) | 20109-59-5 |
| | Potassium perfluoroheptanoate (PFHpA-K) | 21049-36-5 |
| | Ammonium perfluoroheptanoate (PFHpA-$NH_4$) | 6130-43-4 |
| | Cesium perfluoroheptanoate (PFHpA-Cs) | 171198-24-6 |
| | Silver perfluoroheptanoate (PFHpA-Ag) | 424-05-5 |
| | Lithium perfluoroheptanoate (PFHpA-Li) | 60871-90-1 |
| | Perfluoroheptanoate (anion) | 120885-29-2 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| HPFHpA, its salts | 7H-Dodecanefluoroheptane acid (HPFHpA) | 1546-95-8 |
| | Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na) | 2264-25-7 |
| | Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-$NH_4$) | 376-34-1 |
| | 7H-Perfluoroheptanoate (HPFHpA(anion)) | 69681-35-2 |
| PFHpS, its salts | Perfluoroheptane sulfonate (PFHpS) | 375-92-8 |
| | Perfluoroheptanesulfonate Na-salt (PFHpS-Na) | 21934-50-9 |
| | Potassium perfluoroheptanesulfonate (PFHpS-K) | 60270-55-5 |
| | Ammonium perfluoroheptanesulfonate (PFHpS-$NH_4$) | 68259-07-4 |
| | Lithium perfluoroheptanesulfonate (PFHpS-Li) | 117806-54-9 |
| | 1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1) | 70225-15-9 |
| | Perfluoroheptane sulfonate (anion) | 146689-46-5 |
| | Triethylammonium perfluoroheptane sulfonate | 72033-40-0 |
| | Tetraethylammonium perfluoroheptane sulfonate | 439863-97-5 |
| | 1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, anhydride (9CI) (PFHpSA) | 140429-92-1 |
| PFOS, its salts & derivatives | Perfluorooctane sulfonates (PFOS) | 1763-23-1 |
| | Potassium perfluorooctanesulfonate (PFOS-K) | 2795-39-3 |
| | Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) | 29457-72-5 |
| | Perfluorooctanesulfonic acid, ammonium salt (PFOS-$NH_4$) | 29081-56-9 |
| | Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH(OH)_2$) | 70225-14-8 |
| | Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$) | 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-heptadecafluorooctane-1-sulfonate (PFOS-DDA) | 251099-16-8 |
| | TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$) | 111873-33-7 |
| | Perfluorooctane sulfonyl fluoride (POSF) | 307-35-7 |
| | Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg) | 91036-71-4 |
| | Perfluorooctanesulfonic acid, sodium salt (PFOS-Na) | 4021-47-0 |
| | Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate | 71463-74-6 |
| | Perfluorooctanesulfonate (anion) | 45298-90-6 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFOS, its salts & derivatives | 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N($C_2H_5$)$_3$) | 54439-46-2 |
| | Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N($CH_3$)$_4$) | 56773-44-5 |
| | 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N($C_3H_7$)$_3$($C_5H_{11}$)) | 56773-56-9 |
| | 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N($C_4H_9$)$_3$($CH_3$)) | 124472-68-0 |
| | Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) | 213740-80-8 |
| | Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) | 258341-99-0 |
| | Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) | 334529-63-4 |
| | 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) | 773895-92-4 |
| | Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P($C_4H_9$)$_4$)) | 2185049-59-4 |
| | Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$) | 2205029-08-7 |
| | Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-$C_{15}H_{30}NO_2$) | 1203998-97-3 |
| | 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN) | 423-92-7 |
| PFOSA, its salts | Perfluorooctanesulfonamide (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-$C_6H_{15}N$) | 76752-82-4 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| 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 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($C_4H_{10}N$) | 423-52-9 |
| | Pentadecafluorooctanoate (anion) | 45285-51-6 |
| | Perfluorooctanoic Anhydride | 33496-48-9 |
| | Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) | 98241-25-9 |
| | Tetramethylammoniumperfluoroctanoat | 32609-65-7 |
| | 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) | 277749-00-5 |
| | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K($H_2O$)$_2$) | 98065-31-7 |
| | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-$C_2H_7N$) | 1376936-03-6 |
| | Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA-$C_5H_5N$) | 95658-47-2 |
| | Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$) | 1514-68-7 |
| | 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (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 |
| | 1H,1H,2H,2H-Perfluorodencane sulfonate acid Potassium salt (8:2 FTS-K) | 438237-73-1 |
| | 1H,1H,2H,2H-Perfluorodencane sulfonate acid Ammonium salt (8:2 FTS-$NH_4$) | 149724-40-3 |
| | 1H,1H,2H,2H-Perfluorodencane sulfonate acid Sodium salt (8:2 FTS-Na) | 27619-96-1 |
| | 8: 2 Fluorotelomer sulfonate (anion) (8:2 FTS(anion)) | 481071-78-7 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFNA, its salts | Perfluorononan-1-oic acid (PFNA) | 375-95-1 |
| | Perfluorononanoate Na-salt (PFNA-Na) | 21049-39-8 |
| | Perfluorononanoate ammounium salt (APFN) | 4149-60-4 |
| | Potassium perfluorononanoate (PFNA-K) | 21049-38-7 |
| | Perfluorononanoate Li-Salt (PFNA-Li) | 60871-92-3 |
| | Silver perfluorononanoate (PFNA-Ag) | 7358-16-9 |
| | Methanaminium perfluorononanoate (PFNA-$NH_3(CH_3)$) | 77032-23-6 |
| | Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) PFNA-$NH_2(C_2H_5)_2$) | 77032-27-0 |
| | Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-$NH_2(CH_3)_2$) | 77032-24-7 |
| | Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-$NH(C_2H_5)_3$) | 327176-80-7 |
| | Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-$NH_2(C_5H_{10})$) | 95682-66-9 |
| | Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-$NH_3(C_6H_5)$) | 95682-67-0 |
| | Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-$NH_3(C_6H_{11})$) | 328531-06-2 |
| | Perfluorononanoate (anion) | 72007-68-2 |
| | 4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-$C_{11}H_{12}N_4O_3S$) | 298703-33-0 |
| | Perfluorononanoic anhydride (PFNAA) | 228407-54-3 |
| PFDA, its salts | Perfluorodecane acid (PFDA) | 335-76-2 |
| | Perfluorodecanoate Na-salt (PFDA-Na) | 3830-45-3 |
| | Perfluorodecanoate ammonium salt (APFDA) | 3108-42-7 |
| | Potassium perfluorodecanoate (PFDA-K*) | 51604-85-4 |
| | Silver perfluorodecanoate (PFDA-Ag) | 5784-82-7 |
| | Lithium perfluorodecanoate (PFDA-Li) | 84743-32-8 |
| | Perfluorodecanoate (anion) | 73829-36-4 |
| | Perfluorodecanoic anhydride (PFDAA) | 942199-24-8 |
| PFUnDA, its salts | Perfluoroundecanoic acid (PFUnDA) | 2058-94-8 |
| | Ammonium perfluoroundecanoate (PFUnDA-$NH_4$) | 4234-23-5 |
| | Perfluoroundecanoic acid sodium salt (PFUnDA-Na) | 60871-96-7 |
| | Potassium perfluoroundecanoate (PFUnDA-K) | 30377-53-8 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFUnDA, its salts | Calcium perfluoroundecanoate (PFUnDA-Ca) | 97163-17-2 |
| | Perfluoroundecanoate (anion) | 196859-54-8 |
| PFDoDA, its salts | Perfluorododecanoic acid (PFDoDA) | 307-55-1 |
| | Ammonium perfluorododecanoate (APFDoDA) | 3793-74-6 |
| | Perfluorododecanoate (anion) | 171978-95-3 |
| PFTrDA, its salts | Pentacosafluorotridecanoic acid (PFTrDA) | 72629-94-8 |
| | Ammonium perfluorotridecanoate (PFTrDA-$NH_4$) | 4288-72-6 |
| | Sodium perfluorotridecanoate (PFTrDA-Na) | 60872-01-7 |
| | Perfluorotridecanoate (anion) | 862374-87-6 |
| PFTDA, its salts | Perfluorotetradecanoic acid (PFTDA) | 376-06-7 |
| | Perfluorotetradecanoate (anion) | 365971-87-5 |
| 10:2 FTS, its salts | 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS) | 120226-60-0 |
| | 1H,1H,2H,2H-Perfluorododecane sulfonic acid Sodium Salt (10:2 FTS-Na) | 108026-35-3 |
| PFNS, its salts | Perfluorononane sulfonic acid (PFNS) | 68259-12-1 |
| | Sodium perfluoro-1-nonanesulfonate (PFNS-Na*) | 98789-57-2 |
| | Ammonium nonadecafluorononanesulphonate (PFNS-$NH_4$) | 17202-41-4 |
| | Potassium perfluorononanesulfonate (PFNS-K*) | 29359-39-5 |
| | Perfluorononane sulfonate (anion) | 474511-07-4 |
| PFUnDS, its salts | Perfluoroundecane sulfonic acid (PFUnDS) | 749786-16-1 |
| | Perfluoroundecanesulfonate (anion) | 441296-91-9 |
| PFDoDS, its salts | Perfluorododecane sulfonic acid (PFDoDS) | 79780-39-5 |
| | Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na*) | 1260224-54-1 |
| | Potassium perfluorododecanesulfonate (PFDoDS-K) | 85187-17-3 |
| | Perfluorododecane sulfonate (anion) | 343629-43-6 |
| PFTrDS, its salts | Perfluorotridecane sulfonic acid (PFTrDS) | 791563-89-8 |
| | Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na*) | 174675-49-1 |
| 10:2 diPAP, its salts | 10:2 Fluortelomerphosphatediester (10:2 diPAP) | 1895-26-7 |
| | bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafluorododecyl] hydrogen phosphate, compound with 2,2'-iminodiethanol (1:1) (10:2 diPAP-$C_4H_{11}O_2$) | 57677-98-2 |
| 10:2 monoPAP, its salts | 10:2 Fluortelomerphosphatemonoester (10:2 monoPAP) | 57678-05-4 |
| | 10:2 Fluorotelomer diammonium dihydrogen phosphate | 93857-45-5 |
| PFPeDA, its salts | Perfluoropentadecanoic acid (PFPeDA, C15) | 141074-63-7 |
| | Nonacosafluoropentadecanoate (PFPeDA (anion)) | 1214264-29-5 |
| PFHxDA, its salts | Perfluorohexadecanoic acid (PFHxDA, C16) | 67905-19-5 |
| | Hentriacontafluorohexadecanoate anion (PFHxDA (anion)) | 1214264-30-8 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFODA, its salts | Perfluorooctadecanoic acid (PFODA, C18) | 16517-11-6 |
| | Perfluorooctadecanoate anion (PFODA (anion)) | 798556-82-8 |
| PFDS, its salts | Perfluorodecane sulfonate (PFDS) | 335-77-3 |
| | Perfluorodecanesulfonate Na-salt (PFDS-Na) | 2806-15-7 |
| | Perfluorodecanesulfonate K-salt (PFDS-K) | 2806-16-8 |
| | Perfluoroaliphatic dean-sulfonate salt of $NH_4$ (PFDS-$NH_4$) | 67906-42-7 |
| | Perfluorodecane sulfonate (anion) | 126105-34-8 |
| | Perfluorodecane sulfonic anhydride (PFDSA) | 51667-62-0 |
| H2PFDA, its salts | 2H,2H-Perfluorodecane acid (H2PFDA) | 27854-31-5 |
| | Tetrabutylphosphonium 2H,2H-Perfluorodecanoate | 882489-14-7 |
| ADONA, its salts | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 |
| | Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-$NH_4$) | 958445-44-8 |
| | Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na) | 2250081-67-3 |
| HFPO-DA, its salts & derivatives | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acide (HFPO-DA) | 13252-13-6 |
| | Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-(2R)- | 75579-39-4 |
| | Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-(2S)- | 75579-40-7 |
| | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, K-salts | 67118-55-2 |
| | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, ammonium salts | 62037-80-3 |
| | Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-, sodium salt (1:1) | 67963-75-1 |
| | Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-, ion(1-) | 122499-17-6 |
| | Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-, compd. with N-propyl-1-propanamine (1:1) | 165951-17-7 |
| | Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, compd. with N,N-diethylethanamine (1:1) (9CI) | 165951-18-8 |
| | 4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate | 298703-31-8 |
| | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, its acyl halides | 2062-98-8 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| HFPO-DA, its salts & derivatives | Benzoic acid, 2,3,6-triiodo-, (1-methyl-3-piperidinyl)methyl ester, compd. with 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoro propoxy)propanoate (1:1) (HFPO-$C_{14}H_{16}I_3NO_2$) | 2412106-69-3 |
| 4:2 FTS, its salts | 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) | 757124-72-4 |
| | 1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt | 27619-93-8 |
| | 4: 2 Fluorotelomer sulfonate (4:2FTS(anion)) | 414911-30-1 |
| 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-methylperfluorooctane sulfonamidoacetic 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 |
| | Potassium N-ethyl-N-((heptadecafluorooctyl)sulphonyl)glycinate (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 |
| 4HPFUnA, its salts | 2H,2H,3H,3H-Perfluoroundecanoic Acid (4HPFUnA) | 34598-33-9 |
| | Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H4PFUnA-K) | 83310-58-1 |
| | Lithium 3-(perfluorooctyl)propanoate (H4PFUnA-Li) | 67304-23-8 |
| PFPeS, its salts | Perfluoropentane sulfonic acid (PFPeS) | 2706-91-4 |
| | Sodium perfluoro-1-pentanesulfonate (PFPeS-Na*) | 630402-22-1 |
| | Potassium perfluoropentane-1-sulphonate (PFPeS-K) | 3872-25-1 |
| | Ammonium perfluoropentanesulfonate (PFPeS-$NH_4$*) | 68259-09-6 |
| | Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate | 70225-17-1 |
| | Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li) | 1046864-81-6 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| PFPeS, its salts | Perfluoropentane sulfonate (anion) | 175905-36-9 |
| | Triethylammonium perfluoropentane sulfonate | 72033-42-2 |
| | Perfluoropentane sulfonic anhydride (PFPeSA) | 161877-72-1 |
| 9Cl-$PF_3$ONS, its salts | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-$PF_3$ONS and its salts) | 756426-58-1 |
| | Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-$PF_3$ONS-K) | 73606-19-6 |
| | Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-$PF_3$ONS-$NH_4$) | 1383434-28-3 |
| 11Cl-$PF_3$OUdS, its salts | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-$PF_3$OUdS) | 763051-92-9 |
| | Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-$PF_3$OUdS-K) | 83329-89-9 |
| 8:2diPAP, its salts | Bis(1H,1H,2H,2H-Perfluorodecyl)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 (8:2diPAP-$NH_4$) | 93776-20-6 |
| | 8:2 Fluorotelomer phosphate diester ion | 1411713-91-1 |
| 11H-PFUnDA, its salts | 11H-Perfluoroundecanoic acid (11H-PFUnDA) | 1765-48-6 |
| | potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafluoroundecanoate (11H-PFUnDA-K) | 307-71-1 |
| | Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafluoroundecanoate (11H-PFUnDA-$NH_4$) | 5081-02-7 |
| | 11-H-Perfluoroundecanoate (11H-PFUnDA(anion)) | 69681-37-4 |
| PFPrA, its salts | Pentafluoropropionate acid (PFPrA) | 422-64-0 |
| | Sodium pentafluoropropionate (PFPrA-Na) | 378-77-8 |
| | Silver pentafluoropropionate (PFPrA-Ag) | 509-09-1 |
| | Potassium pentafluoropropionate (PFPrA-K) | 378-76-7 |
| | Ammonium pentafluoropropionate (PFPrA-$NH_4$) | 2730-58-7 |
| 6:6 PFPi, its salts | 6:6 Perfluorophosphinic acid (6:6 PFPi) | 40143-77-9 |
| | Sodium bis(perfluorohexyl)phosphinate (6:6 PFPi-Na) | 70609-44-8 |
| | Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb) | 500776-72-7 |
| | Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er) | 500776-73-8 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| 8:8 PFPi, its salts | 8:8 Perfluorophosphinic acid (8:8 PFPi) | 40143-79-1 |
| | Sodium bis(perfluorooctyl)phosphinate (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 |
| 6:2 monoPAP, its salts | Mono[2-(perfluorohexyl)ethyl] Phosphate (6:2 monoPAP) | 57678-01-0 |
| | Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-$NH_4NH_4$) | 1000852-37-8 |
| 6:2 FTPA, its salts | 1H,1H,2H,2H-Perfluorooctanephosphonic acid (6:2 FTPA) | 252237-40-4 |
| | Sodium hydrogen ((perfluorohexyl)ethyl)phosphonate (Cheminox FHP 2OH-Na(PFHEPA-Na)) | 1189052-95-6 |
| HFPO-TA, its salts | Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TA) | 13252-14-7 |
| | Potassium perfluoro(2-(2-propoxypropoxy)propanoate) (HFPO-TA-K) | 67118-57-4 |
| | Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na) | 67963-76-2 |
| | 2,3,3,3-Tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]propanoic acid--ammonia (HFPO-TA-$NH_4$) | 13043-05-5 |
| | Hexafluoropropene oxide trimer (HFPO-TA-F) | 2641-34-1 |
| 6:2 diPAP, its salts | Bis[2-(perfluorohexyl)ethyl] Phosphate (6:2 diPAP) | 57677-95-9 |
| | Sodium bis[2-(perfluorohexyl)ethyl] phosphate (6:2 diPAP-Na) | 407582-79-0 |
| | Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion (6:2 diPAP(anion)) | 667465-18-1 |
| TFSI, its salts | Trifluoromethanesulfonimide (TFSI) | 82113-65-3 |
| | Pyrrolidinium, 1-butyl-1-methyl-, salt with 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:1) | 223437-11-4 |

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| Group Name | Substance Name | CAS No. |
|---|---|---|
| TFSI, its salts | Tributylmethyl Ammonium Bis(trifluoromethanesulfonyl) Imide | 405514-94-5 |
| | Lithium bis((trifluoromethyl)sulfonyl)azanide (TFSI-Li) | 90076-65-6 |
| | 1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide | 433337-23-6 |
| TFMS, its salts | Trifluoromethane sulfonic acid (TFMS) | 1493-13-6 |
| | Trifluoromethane sulfonic acid Sodium salt (TFMS-Na) | 2926-30-9 |
| | Silver trifluoromethanesulfonate (TFMS-Ag) | 2923-28-6 |
| | Zinc trifluoromethanesulfonate (TFMS-Zn) | 54010-75-2 |
| | Scandium trifluoromethanesulfonate (TFMS-Sc) | 144026-79-9 |
| | Trifluoromethanesulfonic anhydride | 358-23-6 |
| | Lithium trifluoromethanesulfonate (TFMS-Li) | 33454-82-9 |
| | Copper(II) trifluoromethanesulfonate (TFMS-Cu) | 34946-82-2 |
| | Barium trifluoromethanesulfonate (TFMS-Ba) | 2794-60-7 |
| | Cerium(IV) trifluoromethanesulfonate (TFMS-Ce) | 107792-63-2 |
| | Magnesium trifluoromethanesulfonate (TFMS-Mg) | 60871-83-2 |
| | Potassium trifluoromethanesulfonate (TFMS-K) | 2926-27-4 |
| | Nickel(II) Trifluoromethanesulfonate (TFMS-Ni) | 60871-84-3 |
| | Tin(II) trifluoromethanesulfonate (TFMS-Sn) | 62086-04-8 |
| | Yttrium(III) trifluoromethanesulfonate (TFMS-Y) | 52093-30-8 |
| | Iron(III) trifluoromethanesulfonate (TFMS-Fe) | 63295-48-7 |
| | Cerium(III) Trifluoromethanesulfonate (TFMS-Ce) | 76089-77-5 |
| PFPrS, its salts | Perfluoropropate sulfonic acid (PFPrS) | 423-41-6 |
| | Perfluoropropanesulfonic acid sodium salt (PFPrS-Na) | 359868-82-9 |
| PFHpSi, its salts | Perfluoroheptane-1-sulfinic acid (PFHpSi) | 769067-51-8 |
| | 1-heptanesulfinic Acid Sodium Salt (PFHpSi-Na) | 68555-66-8 |
| PFOPA, its salts | Perfluorooctylphosphoic acid (PFOPA) | 40143-78-0 |
| | (Heptadecafluorooctyl)phosphonic acid--4-methylaniline (1/1) | 1263361-03-0 |
| Ethyl perfluoroisobutyl ether and its isomers | Ethyl perfluoroisobutyl ether and its isomers | 163702-05-4 |
| | Perfluoroisobutyl ethyl ether | 163702-06-5 |

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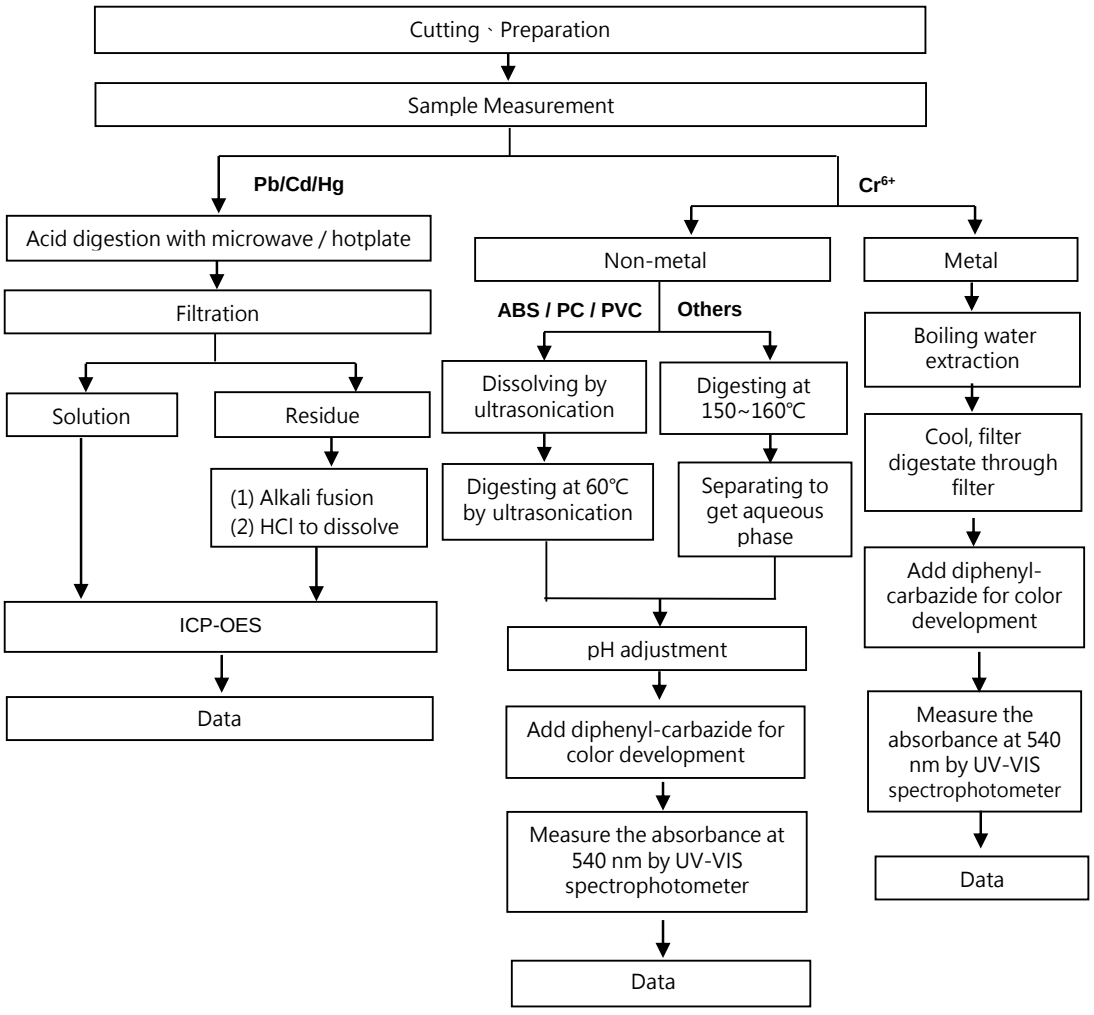
## Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.
( $Cr^{6+}$ test method excluded )



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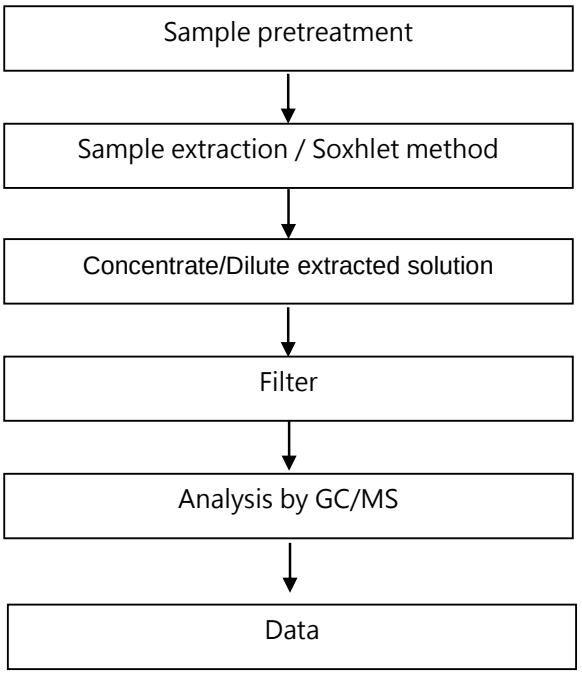
**PBB/PBDE analytical FLOW CHART**



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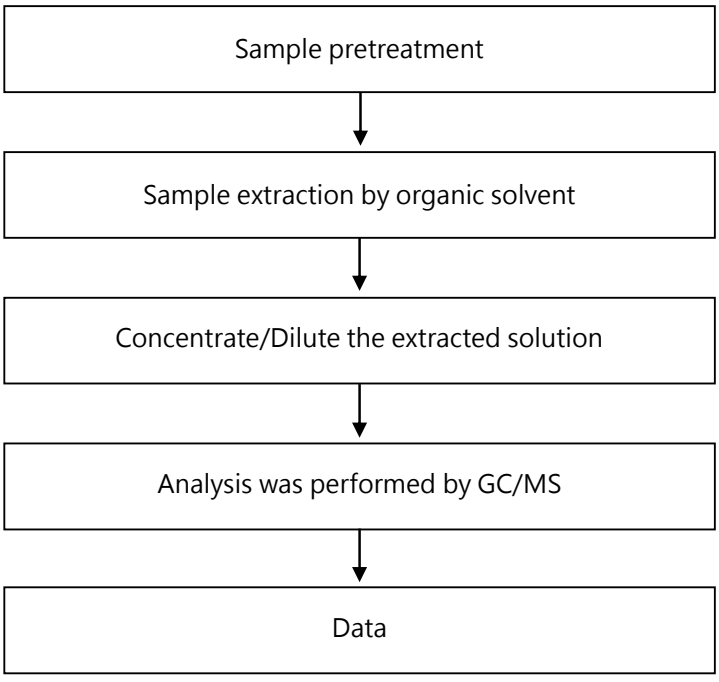
**Analytical flow chart**

* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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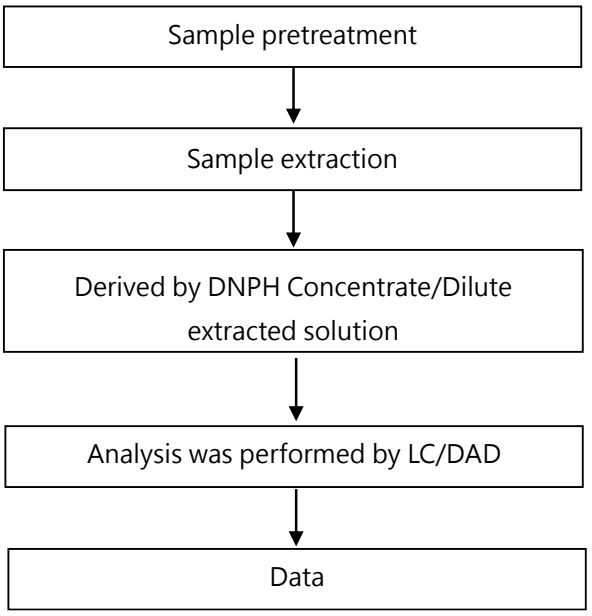
**Analytical flow chart - Formaldehyde**



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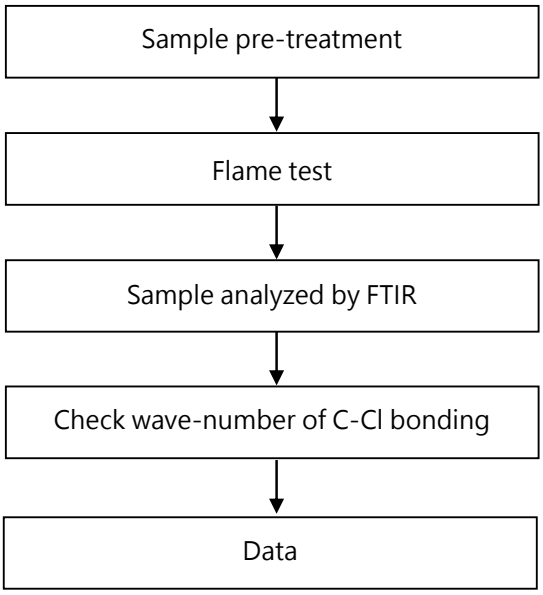
**Analysis flow chart - PVC**



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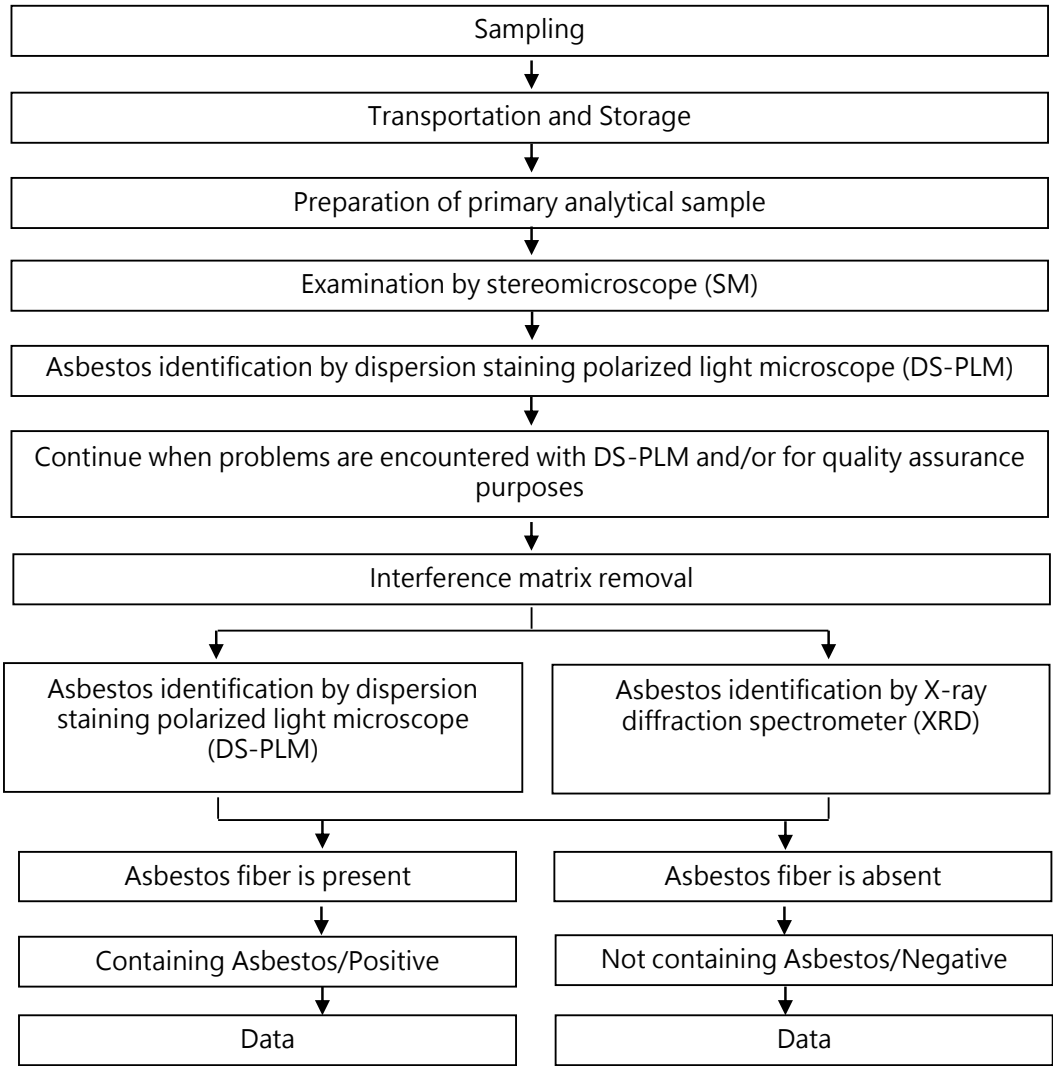
**Analysis flow chart for determination of Asbestos**

**【Reference method: EPA 600/R-93/116】**



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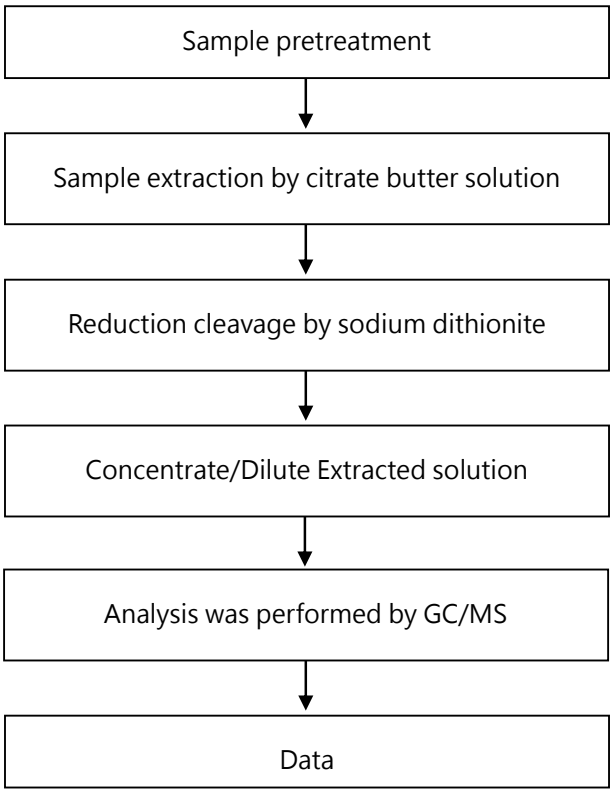
**Analytical flow chart of Azo dyes**

【Test method: ISO 14362-1】



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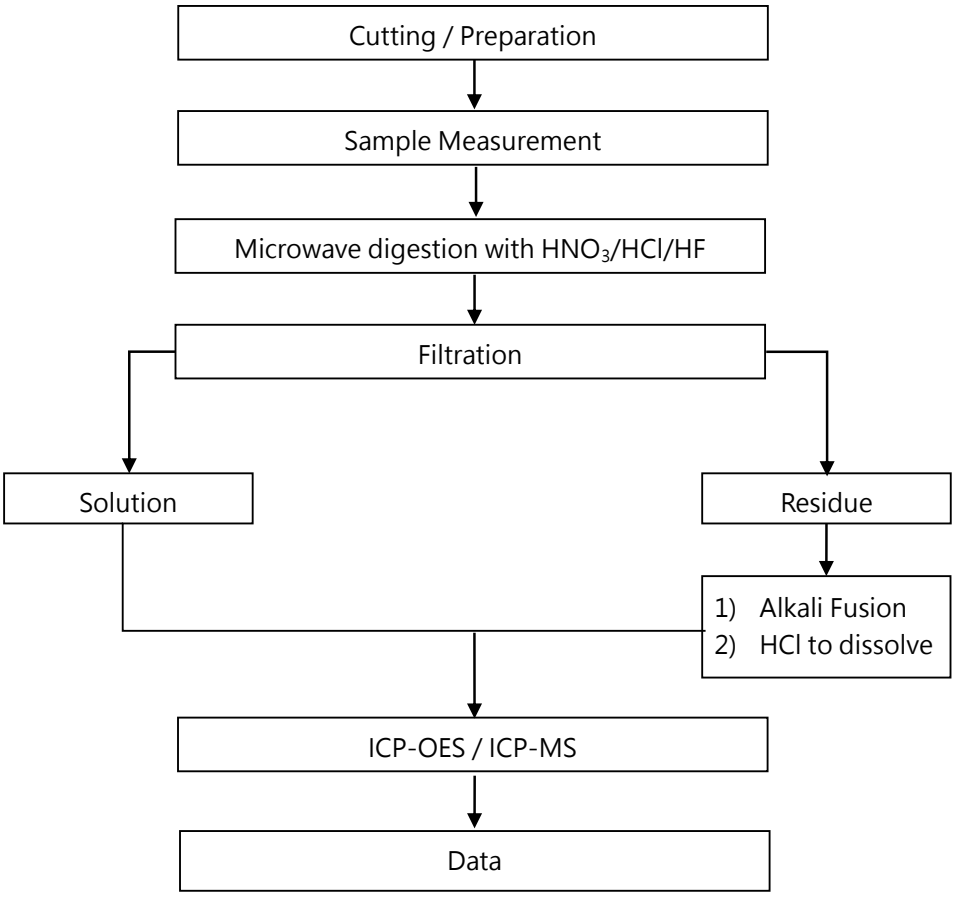
**Analytical flow chart of Elements (Heavy metal included)**

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【Reference method：US EPA 3051、US EPA 3052】




* US EPA 3051 method does not add HF.

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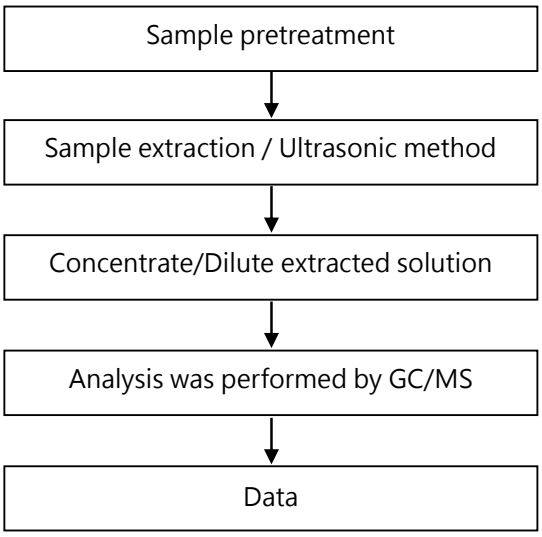
**Analytical flow chart of Dimethyl Fumarate**



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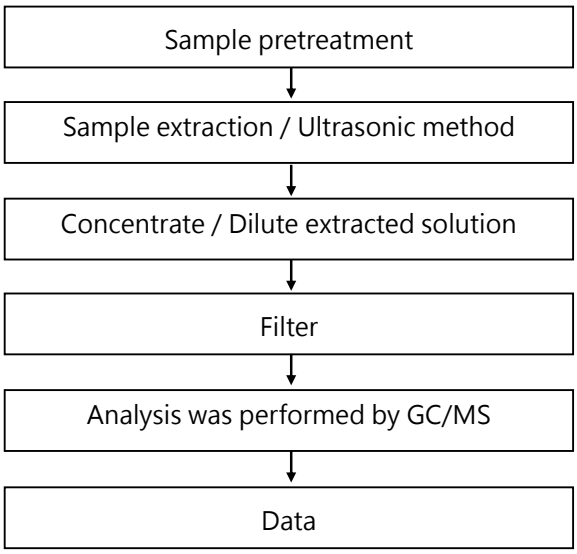
**Analytical flow chart - Organic phosphorus compounds**



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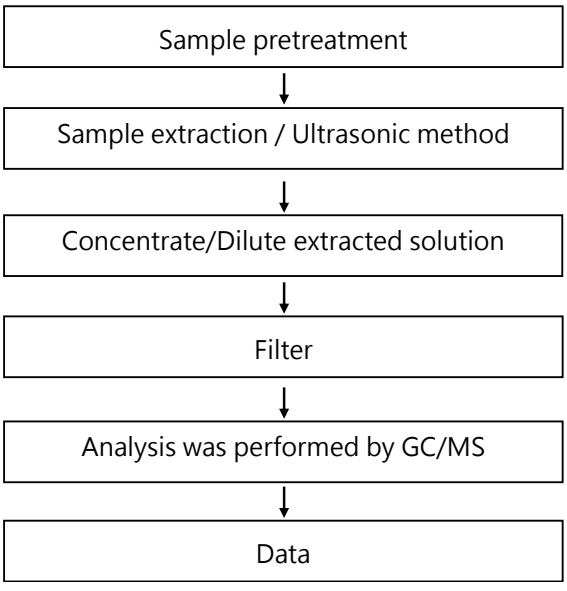
**Analytical flow chart - HBCDD**



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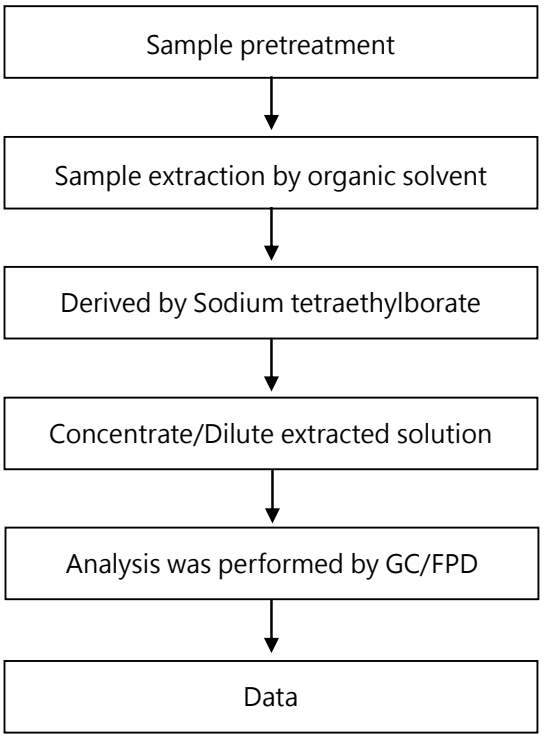
**Analytical flow chart - Organic-Tin**



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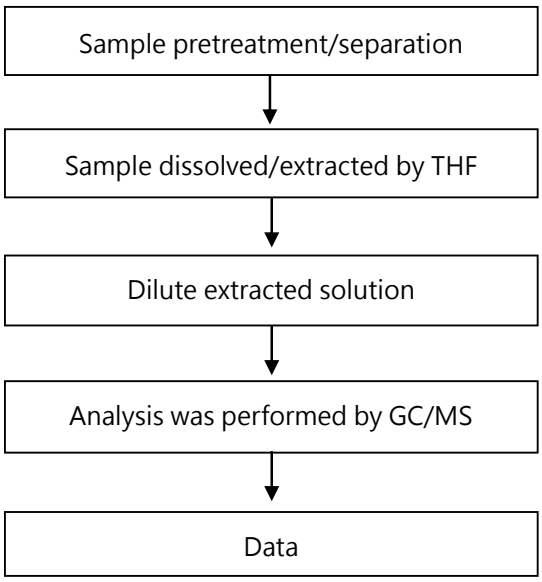
**Analytical flow chart of phthalate content**

【Test method: IEC 62321-8】



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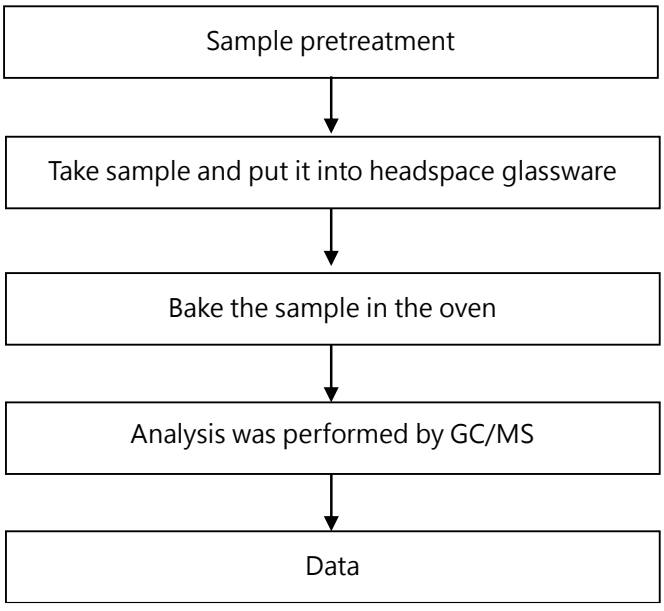
**Analytical flow chart of volatile organic compounds (VOCs)**

【Reference method：US EPA 5021A】



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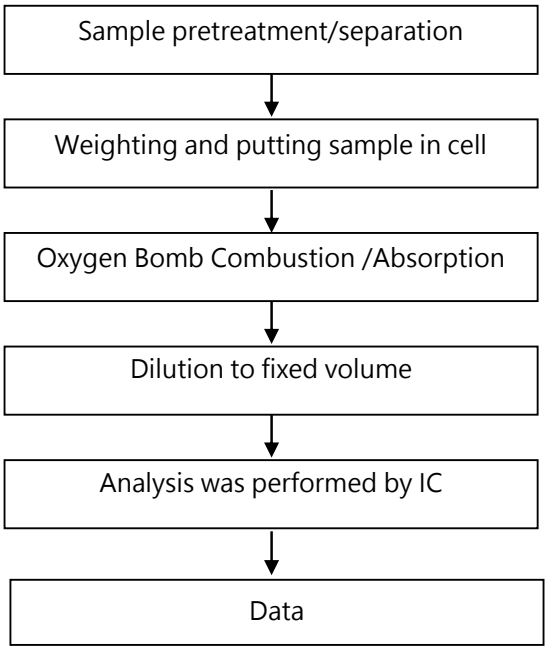
**Analytical flow chart of Halogen**



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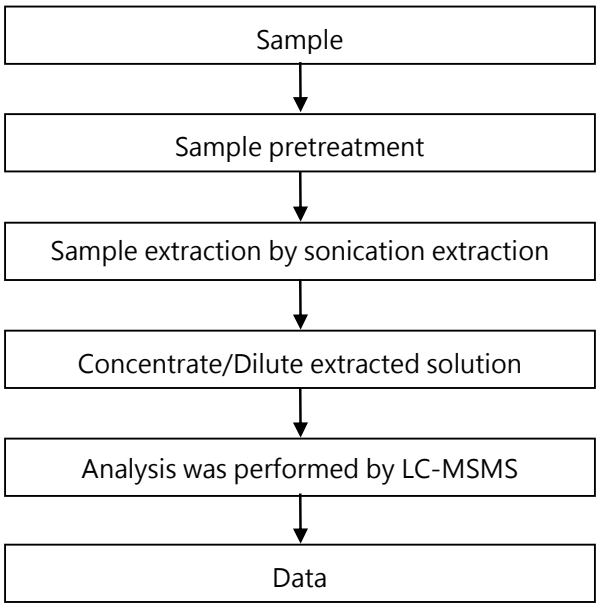
**BPA analytical flow chart**



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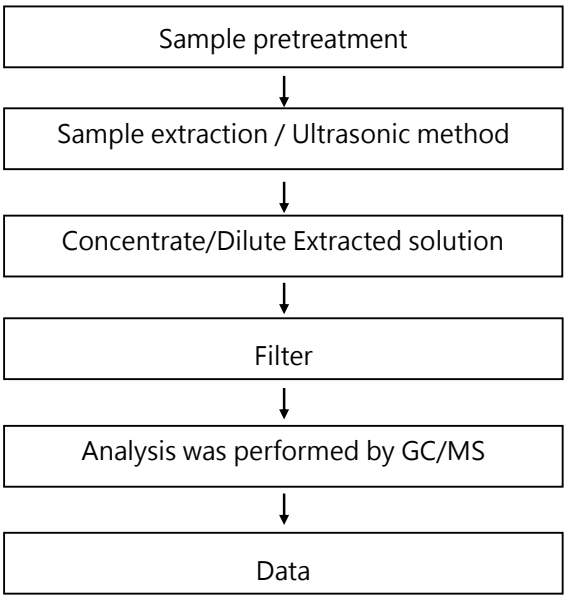
**Analytical flow chart - Persistent, Bioaccumulative, Toxic (PBTs)**



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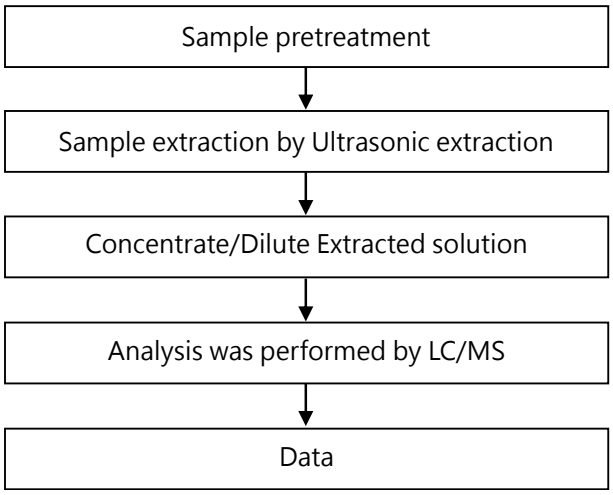
**TBBP-A analytical flow chart**



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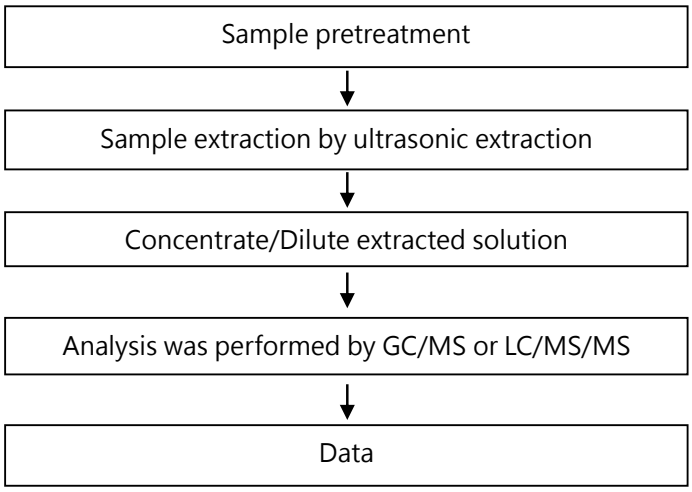
**Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)**



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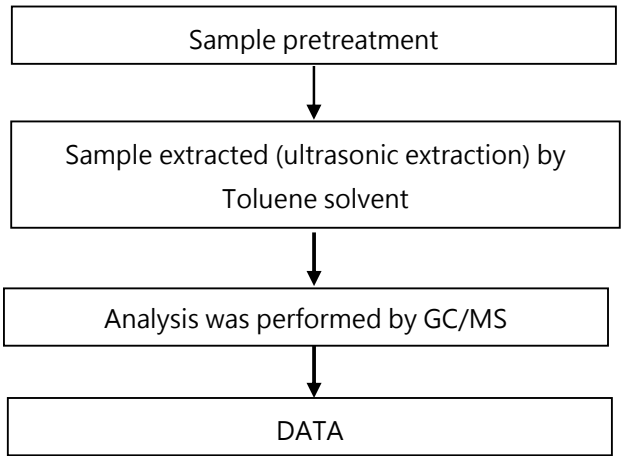
**PAHs (PolyAromaticHydrocarbons) analytical flow chart**



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*** The tested sample / part is marked by an arrow if it's shown on the photo. ***

# EKR25100315


** End of Report **