

Test Report

No.: SHAEC25016948335

Date: Aug 27, 2025

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Client Name: CHANG CHUN SB(CHANG SHU)CO.,LTD

Client Address: CHANGCHUN RD.,RIVERSIDE INDUSTRIAL PARK,CHANGSHU ECONOMIC DEVELOPMENT ZONE,JIANGSU,CHINA

Sample Name: Epoxy Molding Compound

Client Ref. Information: EME-E110G、EME-E115、EME-E120G、EME-E190、EG-200、EME-E125、EME-E210、EME-E220、EME-E280、ER-110、ER-120、EME-E110G TYPE B、EME-E110G TYPE H-3、EME-E110G TYPE H-1、EME-E110G TYPE H-2、EME-E110G TYPE H、EME-E190 TYPE M、EME-E210 TYPE ST-1、EME-E210 TYPE ST、EME-E220 TYPE H、EME-E220 TYPE H-1、EG-200 TYPE A、EME-E125 TYPE H、EME-E115 TYPE D6、EME-E115 TYPE D6-1、EME-E115 TYPE ST、EME-E115 TYPE MH、EME-E115H、EME-E115 TYPE H、EME-E115 TYPE E、EME-E125 TYPE J、EME-E125 TYPE E、EME-E125 TYPE E-1、EME-E125 TYPE M、EME-E110G TYPE ST、EME-E110G TYPE C、EME-E110G TYPE H-4、EME-E110G TYPE A、EME-E190M、EME-E120G TYPE F、EME-E125 TYPE ST、EME-E125 TYPE JH、EME-E110G TYPE K、EME-E115 TYPE D6-3、EME-E115 TYPE H-1、EME-E115 TYPE ST-4、EME-E210ST、EME-E220 TYPE H-2、EME-E115 TYPE RG-2、EME-E215H、EME-E215ST

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

SGS Job No.: SUP25-002475

Sample Receiving Date: Jul 07, 2025

Testing Period: Jul 07, 2025 ~ Jul 16, 2025

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

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

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

| Test Requirement | Conclusion |
|---|------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass |

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

Carol Luo
Approved Signatory

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| Test Requirement | Conclusion |
|---|-------------|
| Chlorinated Paraffins | See Results |
| Dimethyl fumarate (DMFu) | See Results |
| Element(s) | See Results |
| Halogen | See Results |
| Hexabromocyclododecane (HBCDD) | See Results |
| Phthalates | See Results |
| Polychlorinated Biphenyls (PCBs) | See Results |
| Polychlorinated Naphthalenes (PCNs) | See Results |
| Polychlorinated Terphenyls (PCTs) | See Results |
| Polyvinyl chloride (PVC) | See Results |
| TBBP-A | See Results |
| Bisphenol A | See Results |
| Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives | See Results |
| Red Phosphorus | See Results |
| Polycyclic Aromatic Hydrocarbons (PAHs) | See Results |

Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|-------------|
| SN1 | A2 | SHA25-0169483-0001.C002 | Gray powder |

Remarks:

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.



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| Test Item(s) | Limit | Unit(s) | MDL | A2 |
|---|-------|---------|-----|----|
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| Polybromobiphenyl (PBB) | 1000 | mg/kg | - | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 5 | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 5 | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 5 | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 5 | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 5 | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 5 | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 5 | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 5 | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 5 | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 5 | ND |
| Polybromodiphenyl ether (PBDE) | 1000 | mg/kg | - | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 5 | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 5 | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 5 | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 5 | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 5 | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 5 | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 5 | ND |
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 5 | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 5 | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 5 | ND |
| Bis(2-ethylhexyl) phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Butyl benzyl phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Dibutyl phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl phthalate (DIBP) | 1000 | mg/kg | 50 | ND |

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Chlorinated Paraffins



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Test Method: With reference to US EPA 3540C: 1996, analysis was performed by GC-ECD / GC-NCI-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|---|------------|---------|-----|----|
| Middle Chain Chlorinated Paraffins(MCCP)(C ₁₄ -C ₁₇) | 85535-85-9 | mg/kg | 50 | ND |
| Short Chain Chlorinate Paraffins(SCCP)(C ₁₀ -C ₁₃) | 85535-84-8 | mg/kg | 50 | ND |

Dimethyl fumarate (DMFu)

Test Method: Solvent extraction, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--------------------------|----------|---------|-----|----|
| Dimethyl Fumarate (DMFu) | 624-49-7 | mg/kg | 0.1 | ND |

Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

| Test Item(s) | Unit(s) | MDL | A2 |
|--|---------|-----|----|
| Arsenic(As) | mg/kg | 10 | ND |
| Beryllium(Be) | mg/kg | 5 | ND |
| Phosphorus(P) | mg/kg | 20 | ND |
| Antimony(Sb) | mg/kg | 10 | ND |
| Antimony Trioxide(Sb ₂ O ₃) ◆ | mg/kg | 12 | ND |

Notes:

(1) ◆Sb₂O₃ : Calculate from Antimony content.

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

| Test Item(s) | Unit(s) | MDL | A2 |
|--------------|---------|-----|----|
| Fluorine(F) | mg/kg | 20 | ND |
| Chlorine(Cl) | mg/kg | 50 | 88 |
| Bromine(Br) | mg/kg | 50 | ND |
| Iodine(I) | mg/kg | 50 | ND |

Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--------------------------------|---|---------|-----|----|
| Hexabromocyclododecane (HBCDD) | 134237-50-6 /134237-51-7 /134237-52-8 | mg/kg | 20 | ND |



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| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--------------|---------------------------|---------|-----|----|
| | /25637-99-4 /3194-55-6 | | | |

Phthalates

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|---------------------------------|---------------------------|---------|-----|----|
| Diisononyl Phthalate (DINP) | 28553-12-0 /68515-48-0 | mg/kg | 50 | ND |
| Di-n-Octyl Phthalate(DNOP) | 117-84-0 | mg/kg | 50 | ND |
| Diisodecyl Phthalate (DIDP) | 26761-40-0 /68515-49-1 | mg/kg | 50 | ND |
| Di-n-Hexyl Phthalate(DnHP) | 84-75-3 | mg/kg | 50 | ND |
| Dipentyl Phthalate (DPENP/DnPP) | 131-18-0 | mg/kg | 50 | ND |
| Diphenyl Phthalate(DPhP) | 84-62-8 | mg/kg | 50 | ND |
| Dimethyl Phthalate(DMP) | 131-11-3 | mg/kg | 50 | ND |
| Diethyl Phthalate(DEP) | 84-66-2 | mg/kg | 50 | ND |
| Dipropyl Phthalate(DPrP) | 131-16-8 | mg/kg | 50 | ND |
| Dicyclohexyl Phthalate(DCHP) | 84-61-7 | mg/kg | 50 | ND |
| Dibenzyl Phthalate(DBzP) | 523-31-9 | mg/kg | 50 | ND |
| Dinonyl Phthalate(DNP) | 84-76-4 | mg/kg | 50 | ND |
| Diisooctyl Phthalate(DIOP) | 27554-26-3 | mg/kg | 50 | ND |

Polychlorinated Biphenyls (PCBs)

Test Method: With reference to US EPA 8082A:2007, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--|------------|---------|-----|----|
| 2,2',5'-Trichlorobiphenyl (PCB18) | 37680-65-2 | mg/kg | 0.5 | ND |
| 2,4,4'-Trichlorobiphenyl (PCB28) | 7012-37-5 | mg/kg | 0.5 | ND |
| 2,4',5'-Trichlorobiphenyl (PCB31) | 16606-02-3 | mg/kg | 0.5 | ND |
| 2,2',3,5'-Tetrachlorobiphenyl (PCB44) | 41464-39-5 | mg/kg | 0.5 | ND |
| 2,2',5,5'-Tetrachlorobiphenyl (PCB52) | 35693-99-3 | mg/kg | 0.5 | ND |
| 2,2',4,5,5'-Pentachlorobiphenyl (PCB101) | 37680-73-2 | mg/kg | 0.5 | ND |
| 2,3',4,4',5'-Pentachlorobiphenyl (PCB118) | 31508-00-6 | mg/kg | 0.5 | ND |
| 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB138) | 35065-28-2 | mg/kg | 0.5 | ND |
| 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB153) | 35065-27-1 | mg/kg | 0.5 | ND |
| 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB180) | 35065-29-3 | mg/kg | 0.5 | ND |
| 2,2',3,3',4,4',5,5',6'-Nonachlorobiphenyl (PCB206) | 40186-72-9 | mg/kg | 0.5 | ND |
| Sum of PCBs | - | mg/kg | - | ND |
| 4-Chlorobiphenyl (PCB3) | 2051-62-9 | mg/kg | 0.5 | ND |
| 2,4'- Dichlorobiphenyl (PCB8) | 34883-43-7 | mg/kg | 0.5 | ND |



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| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
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| 2,4,5-Trichlorobiphenyl (PCB29) | 15862-07-4 | mg/kg | 0.5 | ND |
| 2,2',4,6-Tetrachlorobiphenyl (PCB50) | 62796-65-0 | mg/kg | 0.5 | ND |
| 2,2',3,4',5',6-Hexachlorobiphenyl (PCB149) | 38380-04-0 | mg/kg | 0.5 | ND |
| 2,2',3,3',4,4',5,5'- Octachlorobiphenyl (PCB194) | 35694-08-7 | mg/kg | 0.5 | ND |
| 2,2',3,3',4,4',5,5',6,6'- Decachlorobiphenyl (PCB209) | 2051-24-3 | mg/kg | 0.5 | ND |

Polychlorinated Naphthalenes (PCNs)

Test Method: With reference to US EPA 8081B:2007, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--|------------|---------|-----|----|
| 1-Chlorinated Naphthalene | 90-13-1 | mg/kg | 5 | ND |
| 2-Chlorinated Naphthalene | 91-58-7 | mg/kg | 5 | ND |
| 1,4- Dichlorinated Naphthalene | 1825-31-6 | mg/kg | 5 | ND |
| 1,5-Dichlorinated Naphthalene | 1825-30-5 | mg/kg | 5 | ND |
| 1,2-Dichlorinated Naphthalene | 2050-69-3 | mg/kg | 5 | ND |
| 1,8-Dichlorinated Naphthalene | 2050-74-0 | mg/kg | 5 | ND |
| 1,2,3-Trichlorinated Naphthalene | 50402-52-3 | mg/kg | 5 | ND |
| 1,2,3,4-Tetrachlorinated Naphthalene | 20020-02-4 | mg/kg | 5 | ND |
| 1,2,3,4,6-Pentachlorinated Naphthalene | 67922-26-3 | mg/kg | 5 | ND |
| Octa-chlorinated Naphthalene | 2234-13-1 | mg/kg | 5 | ND |

Polychlorinated Terphenyls (PCTs)

Test Method: With reference to US EPA 8082A: 2007, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--------------|------------|---------|-----|----|
| Aroclor 5432 | 63496-31-1 | mg/kg | 5 | ND |
| Aroclor 5442 | 12642-23-8 | mg/kg | 5 | ND |
| Aroclor 5460 | 11126-42-4 | mg/kg | 5 | ND |
| Sum of PCT | - | mg/kg | - | ND |

Polyvinyl chloride (PVC)

Test Method: With reference to SGS in house method, analysis was performed by FTIR/HATR.

| Test Item(s) | A2 |
|--------------------------|----------|
| Polyvinyl chloride (PVC) | Negative |

Notes:

(1) Negative=Undetectable, Positive=Detectable

TBBP-A

Test Method: With reference to US EPA 3540C:1996, analysis was performed by GC-MS/LC-MS.



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| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--------------|---------|---------|-----|----|
| TBBP-A | 79-94-7 | mg/kg | 10 | ND |

Bisphenol A
Test Method: With reference to US EPA 3550C:2007, analysis was performed by LC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|------------------|---------|---------|-----|----|
| Bisphenol A(BPA) | 80-05-7 | mg/kg | 1.0 | ND |

Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives
Test Method: Modified EN 17681-1:2022, analysis was performed by LC-MS or LC-MS/MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--|------------|---------|-------|----|
| PFOS, its salts and related compounds | | | | |
| Perfluorooctane sulfonic acid (PFOS), its salts [^] | 1763-23-1 | mg/kg | 0.010 | ND |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | 4151-50-2 | mg/kg | 0.010 | ND |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | 31506-32-8 | mg/kg | 0.010 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | 1691-99-2 | mg/kg | 0.010 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | 24448-09-7 | mg/kg | 0.010 | ND |
| Perfluorooctane Sulfonamide (PFOSA), its salts [^] | 754-91-6 | mg/kg | 0.010 | ND |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts [^] | 2806-24-8 | mg/kg | 0.010 | ND |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts [^] | 2355-31-9 | mg/kg | 0.010 | ND |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts [^] | 2991-50-6 | mg/kg | 0.010 | ND |
| Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives | - | mg/kg | - | ND |
| PFOA, its salts | | | | |
| Perfluorooctanoic acid (PFOA), its salts [^] | 335-67-1 | mg/kg | 0.010 | ND |

Notes:

 1. [^]=Substances refer to its salts/derivative listed in below table.

| Substance Name | CAS No. |
|--|-----------|
| PFOS, its salts & derivatives | |
| Perfluorooctane sulfonic acid (PFOS) | 1763-23-1 |



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| | |
|---|--------------|
| Potassium Perfluorooctanesulfonate (PFOS-K) | 2795-39-3 |
| Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) | 29457-72-5 |
| Sodium perfluorooctanesulfonate (PFOS-Na) | 4021-47-0 |
| Ammonium perfluorooctanesulfonate (PFOS-NH ₄) | 29081-56-9 |
| Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂) | 70225-14-8 |
| Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) | 56773-42-3 |
| N-decyl-N,N-dimethyldecane-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂) | 251099-16-8 |
| TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄) | 111873-33-7 |
| Perfluorooctane Sulfonyl fluoride (PFOS-F) | 307-35-7 |
| Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg) | 91036-71-4 |
| Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate | 71463-74-6 |
| Perfluorooctanesulfonate | 45298-90-6 |
| Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃) | 54439-46-2 |
| Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄) | 56773-44-5 |
| N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) | 56773-56-9 |
| N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) | 124472-68-0 |
| Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1) | 213740-80-8 |
| Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate | 258341-99-0 |
| 1-Hexadecylpyridinium perfluoro-1-octanesulfonate | 334529-63-4 |
| N,N,N-Triethyldecane-1-aminium heptadecafluorooctane-1-sulfonate | 773895-92-4 |
| Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C ₄ H ₉) ₄) | 2185049-59-4 |
| Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N) | 2205029-08-7 |
| heptyldimethyl{2-[(2-methylprop-2-enyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂) | 1203998-97-3 |
| Perfluorooctane sulfonic anhydride (PFOSAN) | 423-92-7 |
| FOSAA, its salts | |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA) | 2806-24-8 |
| N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion)) | 909405-47-6 |
| N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K) | 75260-69-4 |
| N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na) | 115716-87-5 |
| N-MeFOSAA, its salts | |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) | 2355-31-9 |
| 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion)) | 909405-48-7 |
| Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) | 70281-93-5 |
| N-EtFOSAA, its salts | |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) | 2991-50-6 |



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| | |
|---|--------------|
| Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) | 2991-51-7 |
| 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) | 909405-49-8 |
| Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄) | 2991-52-8 |
| Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) | 3871-50-9 |
| PFOA, its salts | |
| Perfluorooctane Sulfonamide (PFOA) | 754-91-6 |
| Perfluorooctanesulfonamide lithium salt (1:1) (PFOA-Li) | 76752-79-9 |
| Perfluorooctanesulfonamide Sodium salt (1:1) (PFOA-Na) | 76752-78-8 |
| Perfluorooctanesulfonamide Potassium salt (1:1) (PFOA-K) | 76752-70-0 |
| Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOA-NH ₄) | 76752-72-2 |
| Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOA-C ₆ H ₁₅ N) | 76752-82-4 |
| PFOA, its salts & derivatives | |
| Perfluorooctanoic acid (PFOA) | 335-67-1 |
| Sodium perfluorooctanoate (PFOA-Na) | 335-95-5 |
| Potassium perfluorooctanoate (PFOA-K) | 2395-00-8 |
| Silver perfluorooctanoate (PFOA-Ag) | 335-93-3 |
| Perfluorooctanoyl fluoride (PFOA-F) | 335-66-0 |
| Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 |
| Lithium perfluorooctanoate (PFOA-Li) | 17125-58-5 |
| Cobalt perfluorooctanoate (PFOA-Co) | 35965-01-6 |
| Cesium perfluorooctanoate (PFOA-Cs) | 17125-60-9 |
| Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+)) | 68141-02-6 |
| Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N)) | 423-52-9 |
| Pentadecafluorooctanoate (anion) | 45285-51-6 |
| Perfluorooctanoic Anhydride | 33496-48-9 |
| N,N,N-Triethylethanaminium perfluorooctanoate | 98241-25-9 |
| Perfluorooctanoate N,N,N-Trimethylmethanaminium | 32609-65-7 |
| Tetrapropylammonium perfluorooctanoate | 277749-00-5 |
| Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂) | 98065-31-7 |
| Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N) | 1376936-03-6 |
| Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N) | 95658-47-2 |
| pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) | 1514-68-7 |
| N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N) | 927835-01-6 |

Red Phosphorus



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Test Method: With reference to SGS In house method, analysis was performed by ICP-OES and Pyrolysis-GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|----------------|-----------|---------|-----|----|
| Red Phosphorus | 7723-14-0 | mg/kg | 500 | ND |

Notes:

(1) The testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|---|----------|---------|-----|----|
| Benzo(a)pyrene(BaP) | 50-32-8 | mg/kg | 0.1 | ND |
| Benzo(e)pyrene(BeP) | 192-97-2 | mg/kg | 0.1 | ND |
| Benzo(a)anthracene(BaA) | 56-55-3 | mg/kg | 0.1 | ND |
| Benzo(b)Fluoranthene(BbF) | 205-99-2 | mg/kg | 0.1 | ND |
| Benzo(j)fluoranthene(BjF) | 205-82-3 | mg/kg | 0.1 | ND |
| Benzo(k)Fluoranthene(BkF) | 207-08-9 | mg/kg | 0.1 | ND |
| Chrysene(CHR) | 218-01-9 | mg/kg | 0.1 | ND |
| Dibenzo(a,h)Anthracene(DBA) | 53-70-3 | mg/kg | 0.1 | ND |
| Benzo(g,h,i)perylene(BPE) | 191-24-2 | mg/kg | 0.1 | ND |
| Indeno(1,2,3-c,d)pyrene(IPY) | 193-39-5 | mg/kg | 0.1 | ND |
| Acenaphthylene(ANY) | 208-96-8 | mg/kg | 0.1 | ND |
| Acenaphthene(ANA) | 83-32-9 | mg/kg | 0.1 | ND |
| Fluorene(FLU) | 86-73-7 | mg/kg | 0.1 | ND |
| Phenanthrene(PHE) | 85-01-8 | mg/kg | 0.1 | ND |
| Pyrene(PYR) | 129-00-0 | mg/kg | 0.1 | ND |
| Anthracene(ANT) | 120-12-7 | mg/kg | 0.1 | ND |
| Fluoranthene(FLT) | 206-44-0 | mg/kg | 0.1 | ND |
| Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene | - | mg/kg | - | ND |
| Naphthalene(NAP) | 91-20-3 | mg/kg | 0.1 | ND |
| Sum of 18 PAHs | - | mg/kg | - | ND |
| Material Category | - | - | - | - |

Notes:

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

| Parameter | Category 1 | Category 2 | Category 3 |
|-----------|---|--|--|
| | Material intended to be put in the mouth or toys with intended skin contact (longer than 30 s). | Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact. | Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 s (short-term skin contact). |



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| | | Toy under 2009/48/EC | Other products under ProdSG | Toy under 2009/48/EC | Other products under ProdSG |
|---|---------|----------------------|-----------------------------|----------------------|-----------------------------|
| Benzo(a)pyrene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo(e)pyrene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo(a)anthracene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo(b)fluoranthene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo(j)fluoranthene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo(k)fluoranthene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Chrysene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Dibenzo(a,h)anthracene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo(g,h,i)perylene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Indeno(1,2,3-cd)pyrene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Acenaphthylene, Acenaphthene, fluorene, phenanthrene, pyrene, anthracene, fluoranthene, mg/kg | < 1 Sum | < 5 Sum | < 10 Sum | < 20 Sum | < 50 Sum |
| Naphthalene, mg/kg | < 1 | < 2 | < 10 | < 10 | < 10 |
| Sum of 18 PAHs | < 1 | < 5 | < 10 | < 20 | < 50 |

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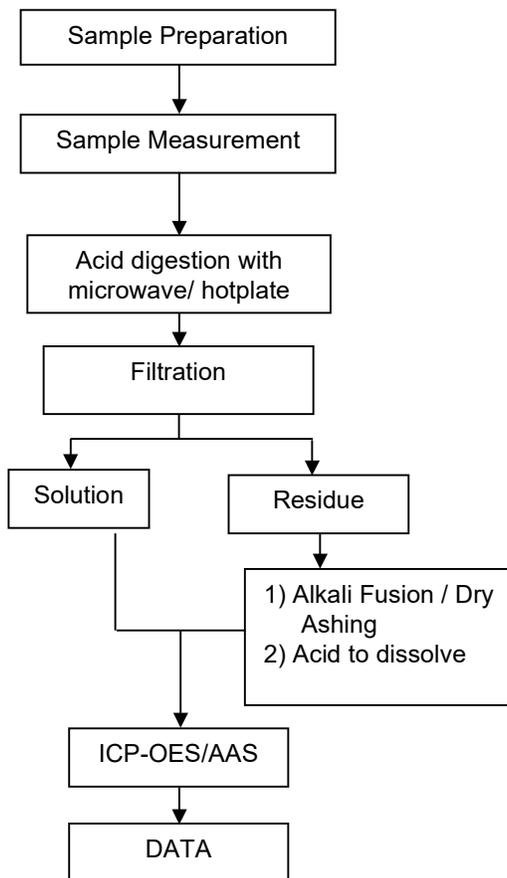
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Elements Testing Flow Chart

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



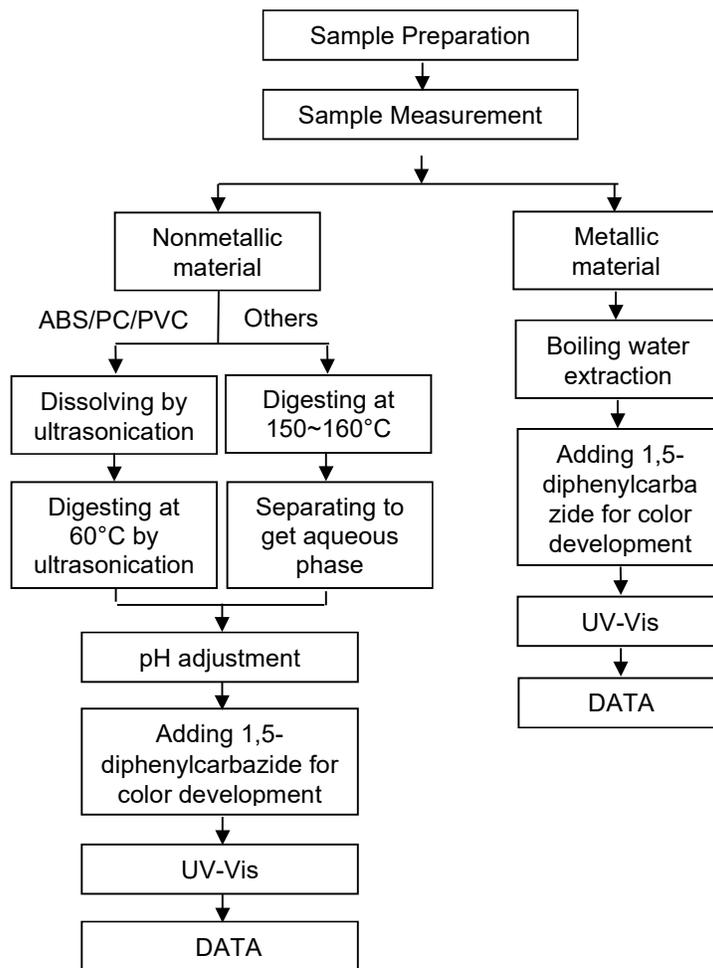
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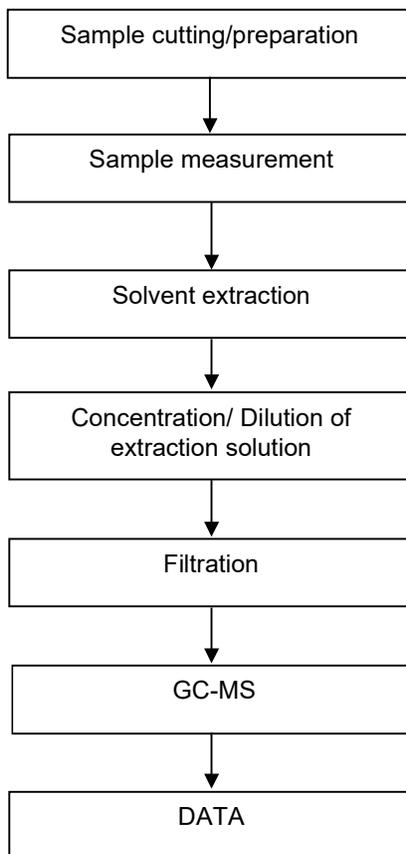
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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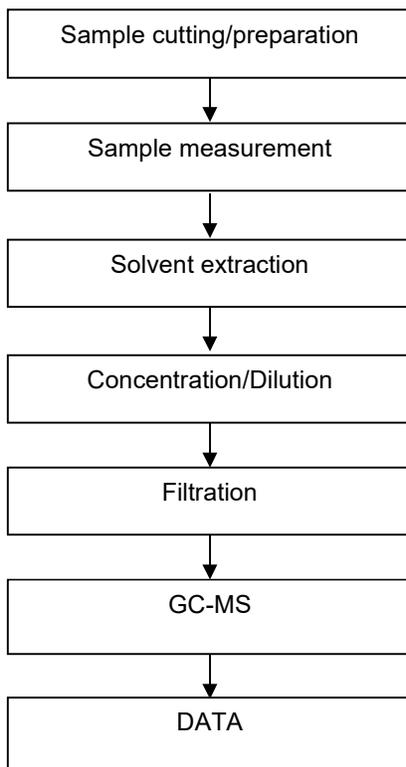
PBB/PBDE Testing Flow Chart



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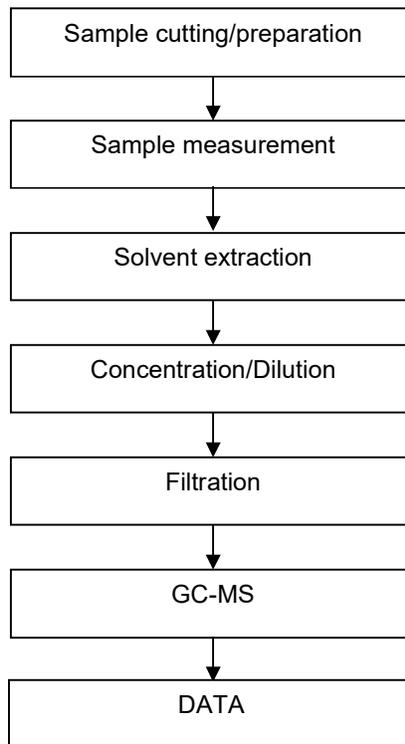
Phthalates Testing Flow Chart



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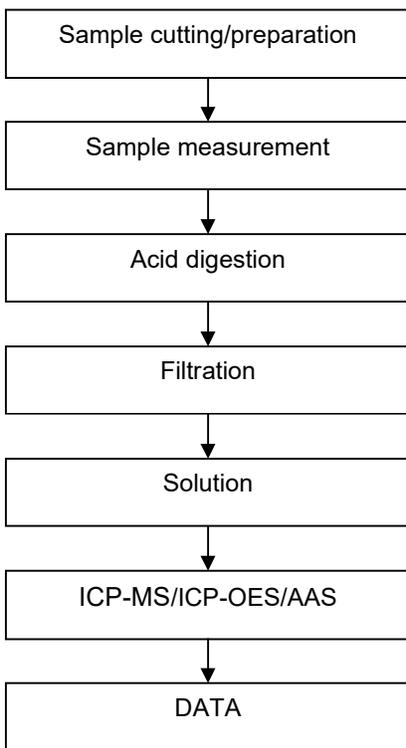
DMF (Dimethyl fumarate) Testing Flow Chart



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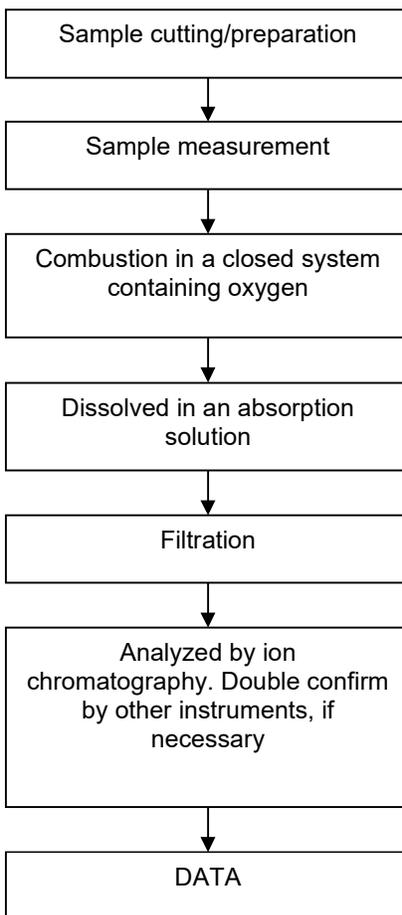
Elements Testing Flow Chart



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Halogen Testing Flow Chart



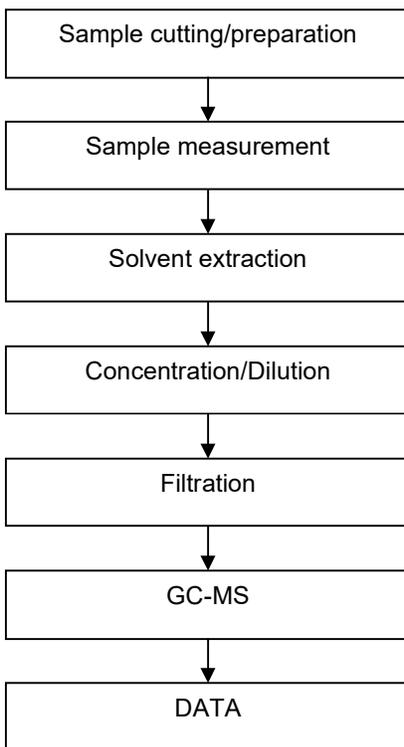
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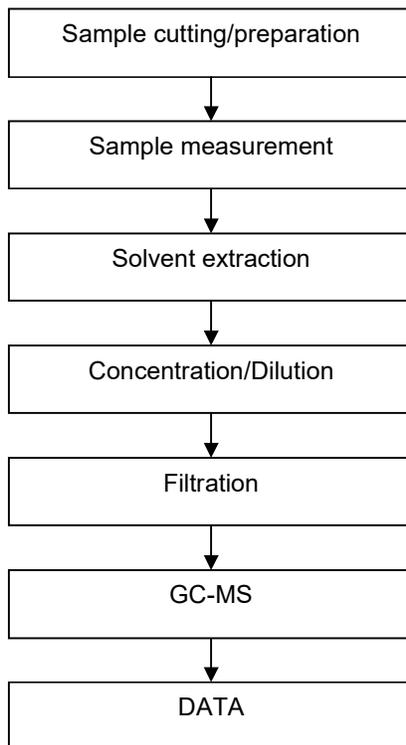
HBCDD Testing Flow Chart



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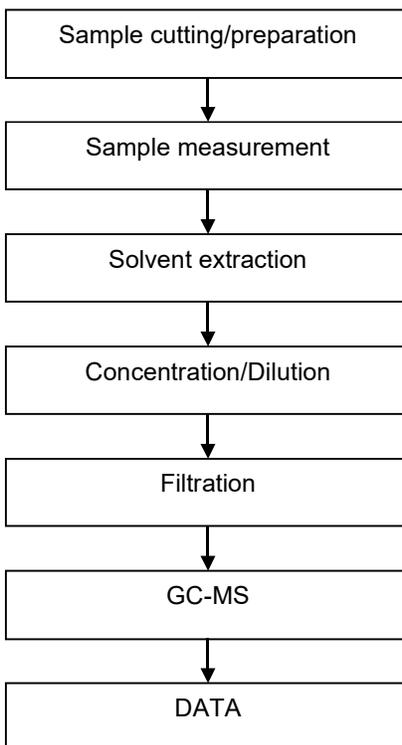
PCB Testing Flow Chart



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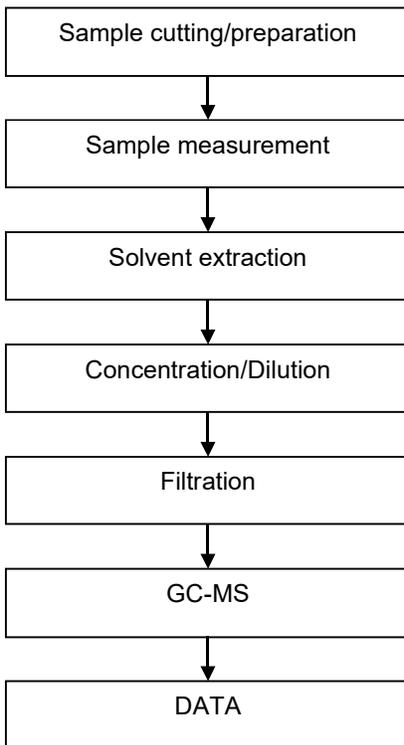
PCN Testing Flow Chart



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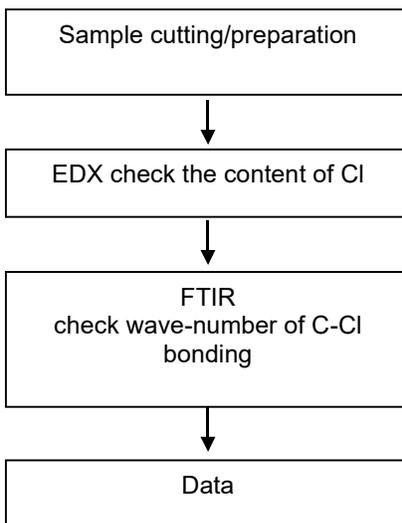
PCT Testing Flow Chart



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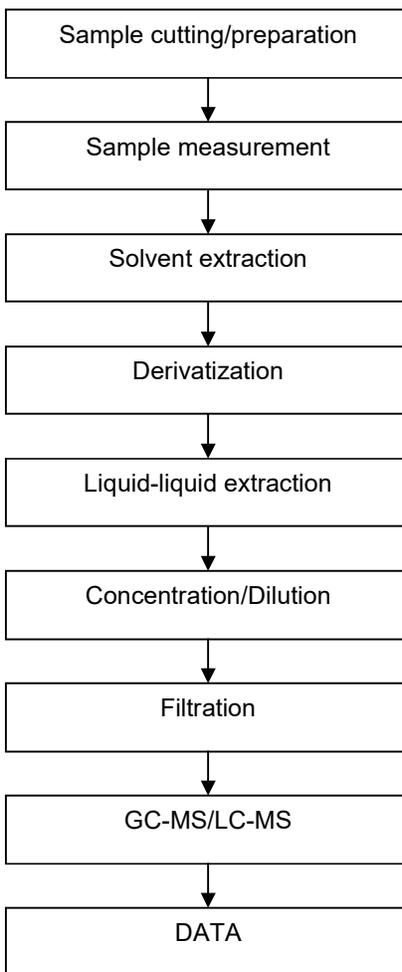
PVC Testing Flow Chart



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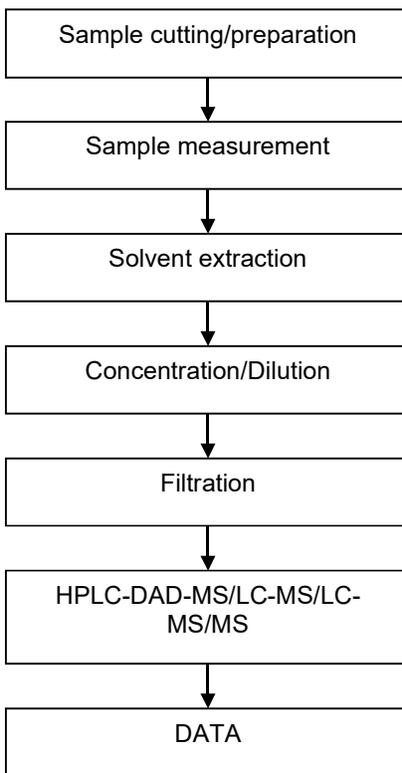
TBBP-A Testing Flow Chart



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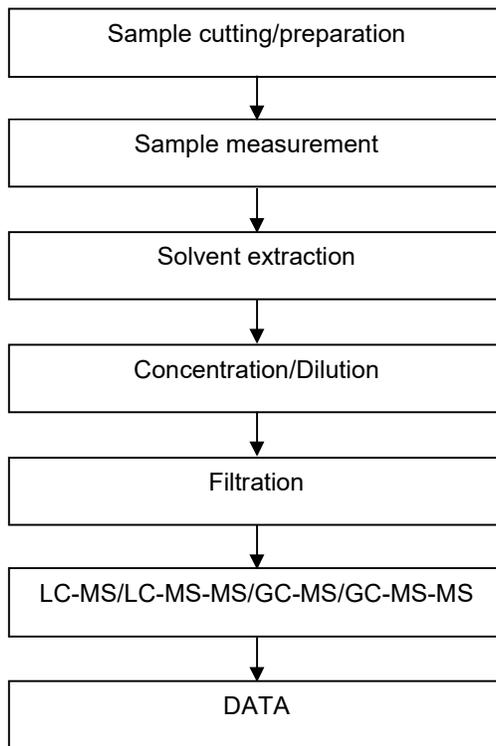
Bisphenols Testing Flow Chart



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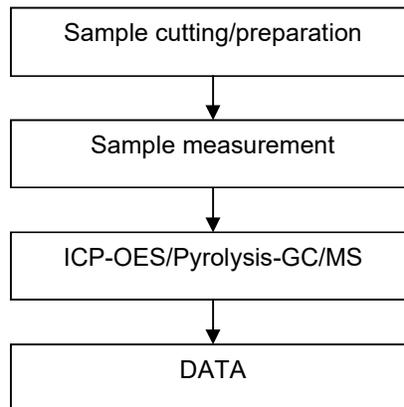
PFASs/ PFOS/PFOA Testing Flow Chart



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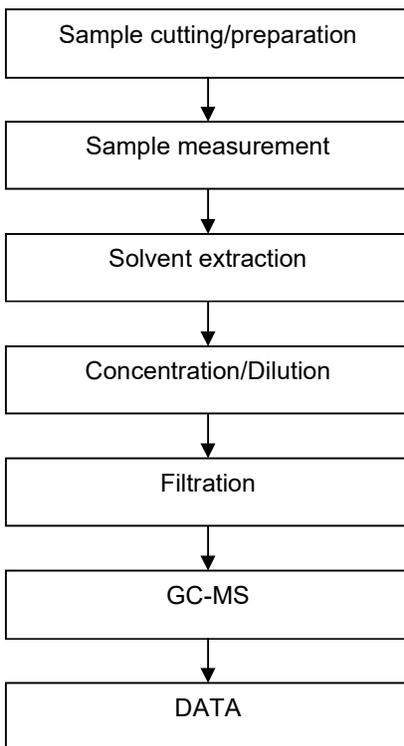
Red Phosphorus Testing Flow Chart



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PAHs Testing Flow Chart



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