



Test Report No. F690101/LF-CTSAYGA23-00851

Issued Date : 2023. 01. 26

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SEHA CORPORATION

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The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No. : AYGA23-00851
Product Name : SC
Item No./Part No. : N/A
Received Date : 2023. 01. 16
Test Period : 2023. 01. 16 to 2023. 01. 26
Test Results : For further details, please refer to following page(s)

SGS Korea Co., Ltd.

Tommy Oh / Chemical Lab Mgr

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CQP-7080E07 (01)

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Sample No. : AYGA23-00851.001
Sample Description : SC
Item No./Part No. : N/A
Materials : PAPER

Perfluorinated Compounds (PFCs)

Test Items	Unit	Test Method	MDL	Results
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	mg/kg	In house, GC/MS	0.3	N.D.
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	mg/kg	In house, GC/MS	0.3	N.D.
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	mg/kg	In house, GC/MS	0.3	N.D.
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	mg/kg	In house, GC/MS	0.3	N.D.
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	mg/kg	In house, GC/MS	0.3	N.D.
1H,1H,2H,2H-Perfluoro -1-dodecanol (10:2 FTOH)	mg/kg	In house, GC/MS	0.3	N.D.
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	mg/kg	In house, GC/MS	0.3	N.D.
Methyl Perfluorooctanoate (Me-PFOA)	mg/kg	In house, GC/MS	0.3	N.D.
Ethyl Perfluorooctanoate (Et-PFOA)	mg/kg	In house, GC/MS	0.3	N.D.
Perfluoro-1-iodooctane (PFOI)	mg/kg	In house, GC/MS	0.3	N.D.
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	mg/kg	In house, GC/MS	0.3	N.D.

[^] PFOS refer to its salts / derivative including PFOS-K (CAS No.: 2795-39-3) , PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8) and POSF (CAS No.: 307-35-7).

⁺ PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1).

PFAS (Per- and polyfluoroalkyl substances)

Test Items	Unit	Test Method	MDL	Results
Ammonium pentadecafluorooctanoate (APFO)*	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorootanoic acid (PFOA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Sodium perfluorooctanoate (PFOA-Na) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Silver perfluorooctanoate (PFOA-Ag) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorooctanoyl fluoride (PFOA-F) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.

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Sample No. : AYGA23-00851.001
Sample Description : SC
Item No./Part No. : N/A
Materials : PAPER

PFAS (Per- and polyfluoroalkyl substances)

Test Items	Unit	Test Method	MDL	Results
Potassium perfluorooctanoate (PFOA-K) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorooctane sulfonate (PFOS)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
N-Decyl-N,N-dimethyldecyl-1-ammonium-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Potassium perfluorooctanesulfonate (PFOS-K) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)*	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)*	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorooctane sulfonyl fluoride (POSF) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorooctane Sulfonamide (PFOSA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorobutane Acid (PFBA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorobutane Sulfonate (PFBS)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorobutane sulfonate K-salt (PFBS-K)*	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluoropentane Acid (PFPA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.

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Test Items	Unit	Test Method	MDL	Results
Perfluorohexane Acid (PFHxA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorohexane-1-sulphonic acid (PFHxS)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorohexanesulfonate K-salt (PFHxS-K) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorohexanesulfonate Na-salt (PFHxS-Na) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluoroheptane Acid (PFHpA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluoroheptane Sulfonate (PFHpS)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluoroheptanesulfonate Na-salt (PFHpS-Na) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorodecane Sulfonate (PFDS)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorodecanesulfonate K-salt (PFDS-K) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorodecanesulfonate Na-salt (PFDS-Na) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluoroaliphatic Dean sulfonate salt of NH4 (PFDS-NH4)*	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorononanoate ammonium salt (APFN) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorononane Acid (PFNA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorononanoate Na-salt (PFNA-Na) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorodecanoate ammonium salt (APFDA) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorodecane Acid (PFDA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorodecanoate Na-salt (PFDA-Na) *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluoroundecanoic Acid (PFUnA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorododecanoic Acid (PFDoA) and its salts *	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorotridecanoic Acid (PFTrA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorotetradecanoic Acid (PFTeA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.

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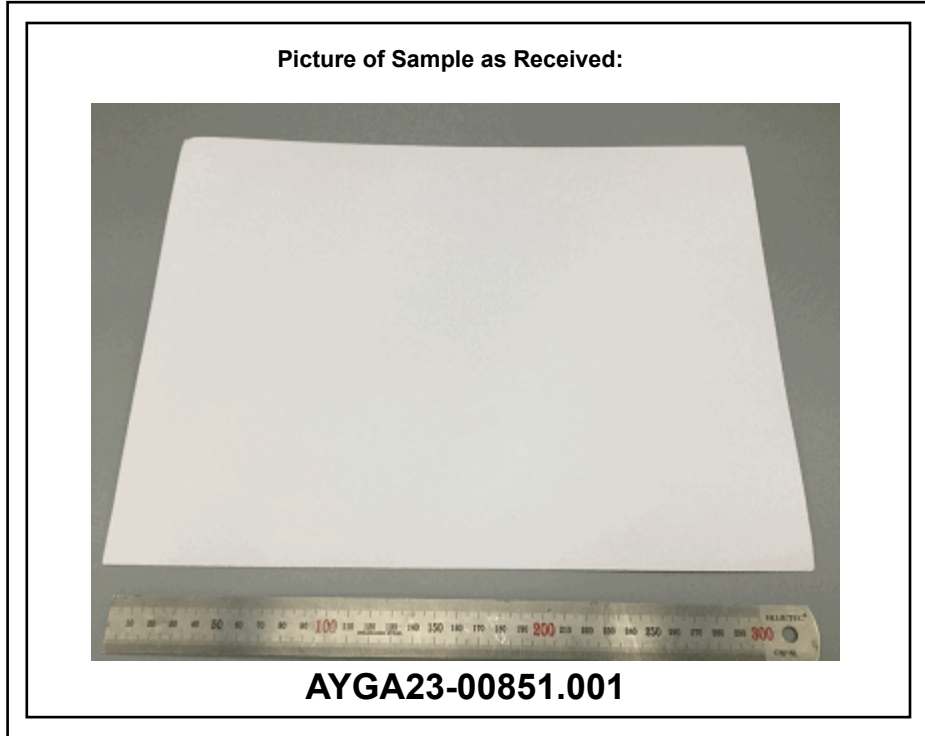
Test Items	Unit	Test Method	MDL	Results
7H-Dodecanefluoroheptane Acid (HPFHpA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
2H,2H-Perfluorodecane Acid (H2PFDA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnA)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.
Perfluorooctanesulphonic acid 1H,1H,2H,2H (H4PFOS; 6:2)	mg/kg	CEN/TS 15968 :2010, HPLC/MS	1	N.D.

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⁺ PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1).

^{*} PFDoA including PFDoA-NH₄ (CAS No.: 3793-74-6)

- NOTE:
- (1) N.D. = Not detected. (<MDL)
 - (2) mg/kg = ppm, ug/kg = ppb, mg/L = ppm
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) Negative = Undetectable / Positive = Detectable
 - (7) The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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*** End of Report ***

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