

# Test Report

No.: SHAPH23007951803

Date: Jun 28, 2023

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Client Name: WATERSAVERS TURF

Client Address: 4316 REDWOOD HWY, STE 100, SAN RAFAEL, CA 94903

Sample Name: WATERSAVERS TURF

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

SGS Job No.: SUZIN2306001793PL03 NJIN2306000766PL03

Sample Receiving Date: Jun 09, 2023

Testing Period: Jun 09, 2023 ~ Jun 28, 2023

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
Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	See Results
European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOA-Related Substances, PFOS and its derivatives	Pass
Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006- C9-C14 PFCA, their salts and C9-C14 PFCA-related substances	Pass

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

*Mei Shen*

Mei Shen  
Approved Signatory

scan to see the report



SHAPH23007951803



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**Test Result(s):**
**Test Part Description:**

SN ID	Sample No.	SGS Sample ID	Description
SN1	001	SHA23-0079518-0001.C001	Green grass silk part
SN2	002	SHA23-0079518-0001.C002	Black solid part

**Remarks:**

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

**Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content**

**Test Method:** With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	001	002
<b>PFOS, its salts and related compounds</b>					
Perfluorooctane sulfonates (PFOS) <sup>Note (1)</sup>	1763-23-1	mg/kg	0.010	ND	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOA)	4151-50-2	mg/kg	0.010	ND	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOA)	31506-32-8	mg/kg	0.010	ND	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND	ND
<b>PFOA, its salts</b>					
Perfluorooctanoic acid (PFOA) <sup>Note (2)</sup>	335-67-1	mg/kg	0.010	ND	ND
<b>PFOA-related compounds</b>					
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) <sup>Note (3)</sup>	39108-34-4	mg/kg	0.010	ND	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.1	ND	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) <sup>Note (3)</sup>	27905-45-9	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) <sup>Note (3)</sup>	1996-88-9	mg/kg	0.1	ND	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.1	ND	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) <sup>Note (3), Note (11)</sup>	27854-31-5	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2FTOH) <sup>Note (3)</sup>	678-39-7	mg/kg	0.1	ND	ND
Sum of PFOA-related compounds	-	mg/kg	-	ND	ND
<b>C9-C14 PFCA, their salts</b>					
Perfluorononane Acid (PFNA) <sup>Note (4)</sup>	375-95-1	mg/kg	0.010	ND	ND
Perfluorodecane Acid (PFDA) <sup>Note (4)</sup>	335-76-2	mg/kg	0.010	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	001	002
Perfluoroundecanoic Acid (PFUnDA) <sup>Note (22)</sup>	2058-94-8	mg/kg	0.010	ND	ND
Perfluorododecanoic Acid (PFDoDA) <sup>Note (4)</sup>	307-55-1	mg/kg	0.010	ND	ND
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	0.010	ND	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	mg/kg	0.010	ND	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND	ND
Sum of C9-C14 PFCA, their salts	-	mg/kg	-	ND	ND
<b>C9-C14 PFCA-related substances</b>					
Perfluorodecane Sulfonate (PFDS) <sup>Note (10)</sup>	335-77-3	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.1	ND	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorododecyltriethoxysilane (8:2 FTSi(O <sub>2</sub> C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	101947-16-4	mg/kg	0.1	ND	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (H4PFUnDA/ 8:3 FTCA) <sup>Note (12)</sup>	34598-33-9	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	mg/kg	0.1	ND	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	mg/kg	0.010	ND	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) <sup>Note (3)</sup>	39108-34-4	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) <sup>Note (3)</sup>	27905-45-9	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) <sup>Note (3)</sup>	1996-88-9	mg/kg	0.1	ND	ND
2H,2H-Perfluorodecane Acid, Note (11)	27854-31-5	mg/kg	0.010	ND	ND
(H2PFDA/8:2 FTCA) <sup>Note (3)</sup>					
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) <sup>Note (3)</sup>	678-39-7	mg/kg	0.1	ND	ND
Sum of C9-C14-related substances	-	mg/kg	-	ND	ND
<b>PFHxS, its salts</b>					
Perfluorohexane Sulfonate (PFHxS) <sup>Note (7)</sup>	355-46-4	mg/kg	0.010	ND	ND
<b>PFHxS-related compounds</b>					
N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	mg/kg	0.010	ND	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	mg/kg	0.010	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	001	002
<b>Other PFAS</b>					
Perfluorobutane Acid (PFBA) <sup>Note (13)</sup>	375-22-4	mg/kg	0.010	ND	ND
Perfluorobutane Sulfonate (PFBS) <sup>Note (5)</sup>	375-73-5	mg/kg	0.010	ND	ND
Perfluoropentane Acid (PFPeA) <sup>Note (17)</sup>	2706-90-3	mg/kg	0.010	ND	ND
Perfluorohexane Acid (PFHxA) <sup>Note (6)</sup>	307-24-4	mg/kg	0.010	ND	ND
Perfluoroheptane Acid (PFHpA) <sup>Note (14)</sup>	375-85-9	mg/kg	0.010	ND	ND
Perfluoroheptanesulfonic Acid (PFHpS) <sup>Note (8)</sup>	375-92-8	mg/kg	0.010	ND	ND
7H-Dodecafluoroheptane Acid (7HFPHPA)	1546-95-8	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.1	ND	ND
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) <sup>Note (9)</sup>	13252-13-6	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	mg/kg	0.010	ND	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	mg/kg	0.010	ND	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	mg/kg	0.010	ND	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	mg/kg	0.010	ND	ND
Perfluoropentane sulfonic acid (PFPeS) <sup>Note (18)</sup>	2706-91-4	mg/kg	0.010	ND	ND
Perfluoro nonane sulfonic acid (PFNS) <sup>Note (19)</sup>	68259-12-1	mg/kg	0.010	ND	ND
Perfluoroundecane sulfonic acid (PFUnDS) <sup>Note (16)</sup>	749786-16-1	mg/kg	0.010	ND	ND
Perfluorododecanesulfonic acid (PFDoDS) <sup>Note (20)</sup>	79780-39-5	mg/kg	0.010	ND	ND
Perfluorotridecane sulfonic acid (PFTrDS) <sup>Note (21)</sup>	791563-89-8	mg/kg	0.010	ND	ND
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	mg/kg	0.010	ND	ND
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	mg/kg	0.010	ND	ND
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	mg/kg	0.010	ND	ND
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	mg/kg	0.010	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2diPAP) <sup>Note (15)</sup>	678-41-1	mg/kg	0.010	ND	ND



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1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	mg/kg	0.1	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	mg/kg	0.010	ND	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	mg/kg	0.010	ND	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	mg/kg	0.010	ND	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	mg/kg	0.010	ND	ND
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	mg/kg	0.010	ND	ND
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	0.010	ND	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	mg/kg	0.010	ND	ND
3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	mg/kg	0.010	ND	ND
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	mg/kg	0.010	ND	ND

**Notes:**

- (1) PFOS refer to its salts/derivative including
  - PFOS-K CAS No.: 2795-39-3
  - PFOS-Li CAS No.: 29457-72-5
  - PFOS-Na CAS No.: 4021-47-0
  - PFOS-NH<sub>4</sub> CAS No.: 29081-56-9
  - PFOS-NH(C<sub>2</sub>H<sub>5</sub>O)<sub>2</sub> CAS No.: 70225-14-8
  - PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> CAS No.: 56773-42-3
  - PFOS-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> CAS No.: 251099-16-8
  - POSF CAS No.: 307-35-7
  - POSF-Mg CAS No.: 91036-71-4
- (2) PFOA refer to its salts/derivative 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
  - APFO CAS No.: 3825-26-1
- (3) PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances.
- (4) PFNA refer to its salts including
  - PFNA-Na CAS No.: 21049-39-8
  - PFNA-NH<sub>4</sub> CAS No.: 4149-60-4
  - PFNA-K CAS No.: 21049-38-7
  - PFNA-Li CAS No.: 60871-92-3
- PFDA refer to its salts including
  - PFDA-Na CAS No. 3830-45-3
  - PFDA-NH<sub>4</sub> CAS No: 3108-42-7
- PFDoDA refer to its salts including
  - PFDoDA-NH<sub>4</sub> CAS No: 3793-74-6



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# Test Report

No.: SHAPH23007951803

Date: Jun 28, 2023

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- (5) PFBS refers to its salts/derivative including
  - PFBS-K CAS No.: 29420-49-3
  - PFBS-H<sub>2</sub>O CAS No.: 59933-66-3
  - PFBS-Li CAS No.: 131651-65-5
  - PFBS-S(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub> CAS No.: 144317-44-2
  - PFBS-S(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>5</sub> CAS No.: 220133-51-7
  - PFBS-P(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub> CAS No.: 220689-12-3
  - PFBS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> CAS No.: 25628-08-4
  - PFBS-NC<sub>3</sub>H<sub>9</sub>O CAS No.: 34454-97-2
  - PFBS-F CAS No.: 375-72-4
  - PFBS-NC<sub>4</sub>H<sub>9</sub>O CAS No.: 503155-89-3
  - PFBS-Mg CAS No.: 507453-86-3
  - PFBS-NH<sub>4</sub> CAS No.: 68259-10-9
  - PFBS-SC<sub>18</sub>H<sub>23</sub>O CAS No.: -- / EC No.: 468-770-4
  - PFBS-Cl CAS No.: 2991-84-6
  - PFBS-Na CAS No.: 60453-92-1
- (6) PFHxA refers to its salt including
  - APFHx CAS No.: 21615-47-4
  - PFHxA-Na CAS No.: 2923-26-4
  - PFHxA-K CAS No.: 3109-94-2
  - PFHxA-F CAS No.: 355-38-4
- (7) PFHxS refers to its salts including
  - PFHxS-Na CAS No.: 82382-12-5
  - PFHxS-K CAS No.: 3871-99-6
  - PFHxS-Li CAS No.: 55120-77-9
  - PFHxS-NH<sub>4</sub> CAS No.: 68259-08-5
  - PFHxS-P(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>C<sub>7</sub>H<sub>7</sub> CAS No.: 1000597-52-3
  - PFHxS-N(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub> CAS No.: 108427-54-9
  - PFHxS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> CAS No.: 108427-55-0
  - PFHxS-NC<sub>4</sub>H<sub>9</sub> CAS No.: 1187817-57-7
  - PFHxS-(NC<sub>10</sub>H<sub>14</sub>)<sub>3</sub>C<sub>5</sub>H<sub>4</sub> CAS No.: 1310480-24-0
  - PFHxS-(NC<sub>8</sub>H<sub>10</sub>)<sub>2</sub>C<sub>13</sub>H<sub>12</sub> CAS No.: 1310480-27-3
  - PFHxS-(NC<sub>8</sub>H<sub>10</sub>)<sub>2</sub>C<sub>17</sub>H<sub>12</sub> CAS No.: 1310480-28-4
  - PFHxS-C<sub>42</sub>H<sub>70</sub>O<sub>35</sub> CAS No.: 1329995-45-0
  - PFHxS-C<sub>48</sub>H<sub>80</sub>O<sub>40</sub> CAS No.: 1329995-69-8
  - PFHxS-S(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub> CAS No.: 144116-10-9
  - PFHxS-C<sub>44</sub>H<sub>57</sub>N<sub>2</sub>O<sub>2</sub> CAS No.: 1462414-59-0
  - PFHxS-I(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub> CAS No.: 153443-35-7
  - PFHxS-N(CH<sub>3</sub>)<sub>4</sub> CAS No.: 189274-31-5
  - PFHxS-NH<sub>2</sub>(CH<sub>3</sub>)<sub>3</sub> CAS No.: 202189-84-2
  - PFHxS-I(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>(C<sub>4</sub>H<sub>9</sub>)<sub>2</sub> CAS No.: 213740-81-9
  - PFHxS-Ga CAS No.: 341035-71-0
  - PFHxS-S(C<sub>7</sub>H<sub>7</sub>)<sub>2</sub>C<sub>6</sub>H<sub>5</sub> CAS No.: 341548-85-4
  - PFHxS-Sc CAS No.: 350836-93-0
  - PFHxS-Nd CAS No.: 41184-65-0
  - PFHxS-Y CAS No.: 41242-12-0
  - PFHxS-S<sub>3</sub>(C<sub>6</sub>H<sub>5</sub>)<sub>4</sub>(C<sub>6</sub>H<sub>4</sub>)<sub>2</sub> CAS No.: 421555-73-9
  - PFHxS-I(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>(C<sub>6</sub>H<sub>11</sub>)<sub>2</sub> CAS No.: 421555-74-0
  - PFHxS-F CAS No.: 423-50-7
  - PFHxS-S(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>(C<sub>4</sub>H<sub>9</sub>)<sub>3</sub> CAS No.: 425670-70-8
  - PFHxS-Zn CAS No.: 70136-72-0
  - PFHxS-NH(C<sub>2</sub>H<sub>5</sub>O)<sub>2</sub> CAS No.: 70225-16-0



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PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub>	CAS No.: 72033-41-1
PFHxS-I(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	CAS No.: 866621-50-3
PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>7</sub> H <sub>7</sub>	CAS No.: 910606-39-2
PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>10</sub> H <sub>6</sub> O <sub>2</sub>	CAS No.: 911027-68-4
PFHxS-Cs	CAS No.: 92011-17-1
PFHxS-SC <sub>28</sub> H <sub>31</sub> O <sub>4</sub>	CAS No.: 928049-42-7
(8) PFHpS refers to its salts including	
PFHpS-Na	CAS No.: 21934-50-9
PFHpS-K	CAS No.: 60270-55-5
(9) HFPO-DA refers to its salts including	
HFPO-DA-NH <sub>4</sub>	CAS No.: 62037-80-3
HFPO-DA-K	CAS No.: 67118-55-2
HFPO-DA-F	CAS No.: 2062-98-8
(10) PFDS refer to its salts including	
PFDS-Na	CAS No.: 2806-15-7
PFDS-K	CAS No.: 2806-16-8
PFDS-NH <sub>4</sub>	CAS No.: 67906-42-7
(11) H <sub>2</sub> PFDA / 8:2 FTCA refer to its salt/derivative including	
8:2 FTCA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub>	CAS No.: 882489-14-7
(12) H <sub>4</sub> PFUnDA/ 8:3 FTCA refer to its salts including	
H <sub>4</sub> PFUnDA-K	CAS No.: 83310-58-1
(13) PFBA refers to its salts including	
PFBA-NH <sub>4</sub>	CAS No.: 10495-86-0
PFBA-Na	CAS No.: 2218-54-4
PFBA-K	CAS No.: 2966-54-3
PFBA-Ag	CAS No.: 3794-64-7
(14) PFHpA refers to its salts including	
PFHpA-Na	CAS No.: 20109-59-5
PFHpA-K	CAS No.: 21049-36-5
PFHpA-NH <sub>4</sub>	CAS No.: 6130-43-4
(15) 8:2diPAP refers to its salts including	
8:2diPAP-Na	CAS No.: 114519-85-6
(16) PFUnDS refers to its salts including	
PFUnDS-Na	CAS No.: 441296-91-9 (anion)
(17) PFPeA refers to its salts including	
PFPeA-Na	CAS No.: 2706-89-0
PFPeA-K	CAS No.: 336-23-2
PFPeA-NH <sub>4</sub>	CAS No.: 68259-11-0
(18) PFPeS refers to its salts including	
PFPeS-Na	CAS No.: 630402-22-1
PFPeS-K	CAS No.: 3872-25-1
(19) PFNS refers to its salts including	
PFNS-Na	CAS No.: 98789-57-2
PFNS-NH <sub>4</sub>	CAS No.: 17202-41-4
(20) PFDoDS refers to its salts including	
PFDoDS-Na	CAS No.: 1260224-54-1
(21) PFTrDS refers to its salts including	
PFTrDS-Na	CAS No.: 174675-49-1
(22) PFUnDA refers to its salts including	
PFUnDA-Na	CAS No.: 60871-96-7
PFUnDA-NH <sub>4</sub>	CAS No.: 4234-23-5



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**European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOA-Related Substances, PFOS and its derivatives**

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	001	002
<b>PFOS, its salts and related compounds</b>						
Perfluorooctane sulfonates (PFOS) <sup>Note (1)</sup>	1763-23-1	-	mg/kg	0.010	ND	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	-	mg/kg	0.010	ND	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	-	mg/kg	0.010	ND	ND
Sum of Perfluorooctane sulfonates (PFOS) and its derivatives	-	1000	mg/kg	-	ND	ND
<b>PFOA, its salts</b>						
Perfluorooctanoic acid (PFOA) <sup>Note (2)</sup>	335-67-1	0.025	mg/kg	0.010	ND	ND
<b>PFOA-related compounds</b>						
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) <sup>Note (3)</sup>	39108-34-4	-	mg/kg	0.010	ND	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	-	mg/kg	0.1	ND	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) <sup>Note (3)</sup>	678-39-7	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) <sup>Note (3)</sup>	27905-45-9	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) <sup>Note (3)</sup>	1996-88-9	-	mg/kg	0.1	ND	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	-	mg/kg	0.1	ND	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) <sup>Note (3), Note (11)</sup>	27854-31-5	-	mg/kg	0.010	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	001	002
Sum of PFOA-related compounds	-	1.0	mg/kg	-	ND	ND
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

**Notes:**

- (1) PFOS refer to its salts/derivative including
  - PFOS-K CAS No.: 2795-39-3
  - PFOS-Li CAS No.: 29457-72-5
  - PFOS-Na CAS No.: 4021-47-0
  - PFOS-NH<sub>4</sub> CAS No.: 29081-56-9
  - PFOS-NH(C<sub>2</sub>H<sub>5</sub>O)<sub>2</sub> CAS No.: 70225-14-8
  - PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> CAS No.: 56773-42-3
  - PFOS-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> CAS No.: 251099-16-8
  - POSF CAS No.: 307-35-7
  - POSF-Mg CAS No.: 91036-71-4
- (2) PFOA refer to its salts/derivative 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
  - APFO CAS No.: 3825-26-1
- (3) PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances.
  - (11) H2PFDA / 8:2 FTCA refer to its salt/derivative including
    - 8:2 FTCA-P(C<sub>8</sub>H<sub>9</sub>)<sub>4</sub> CAS No.: 882489-14-7

**Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006- C9-C14 PFCA, their salts and C9-C14 PFCA-related substances**

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	001	002
<b>C9-C14 PFCA, their salts</b>						
Perfluorononane Acid (PFNA) <sup>Note (4)</sup>	375-95-1	-	mg/kg	0.010	ND	ND
Perfluorodecane Acid (PFDA) <sup>Note (4)</sup>	335-76-2	-	mg/kg	0.010	ND	ND
Perfluoroundecanoic Acid (PFUnDA) <sup>Note (22)</sup>	2058-94-8	-	mg/kg	0.010	ND	ND
Perfluorododecanoic Acid (PFDoDA) <sup>Note (4)</sup>	307-55-1	-	mg/kg	0.010	ND	ND
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	-	mg/kg	0.010	ND	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	-	mg/kg	0.010	ND	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	mg/kg	0.010	ND	ND
Sum of C9-C14 PFCAs and its salts	-	0.025	mg/kg	-	ND	ND
<b>C9-C14 PFCA-related substances</b>						



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	001	002
Perfluorodecane Sulfonate (PFDS) <sup>Note (10)</sup>	335-77-3	-	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	-	mg/kg	0.1	ND	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorodicyltriethoxysilane (8:2 FTS(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	101947-16-4	-	mg/kg	0.1	ND	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (H <sub>4</sub> PFUnDA/ 8:3 FTCA) <sup>Note (12)</sup>	34598-33-9	-	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	-	mg/kg	0.010	ND	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) <sup>Note (3)</sup>	39108-34-4	-	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) <sup>Note (3)</sup>	27905-45-9	-	mg/kg	0.1	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) <sup>Note (3)</sup>	1996-88-9	-	mg/kg	0.1	ND	ND
2H,2H-Perfluorodecane Acid (H <sub>2</sub> PFDA/8:2 FTCA) <sup>Note (3), Note (11)</sup>	27854-31-5	-	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) <sup>Note (3)</sup>	678-39-7	-	mg/kg	0.1	ND	ND
Sum of C9-C14 PFCA-related substances	-	0.260	mg/kg	-	ND	ND
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

### Notes:

(3) PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances.

(4) PFNA refer to its salts including

PFNA-Na  
PFNA-NH<sub>4</sub>

CAS No.: 21049-39-8

CAS No.: 4149-60-4



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PFNA-K	CAS No.: 21049-38-7
PFNA-Li	CAS No.: 60871-92-3
PFDA refer to its salts including	
PFDA-Na	CAS No. 3830-45-3
PFDA-NH <sub>4</sub>	CAS No: 3108-42-7
PFDoDA refer to its salts including	
PFDoDA-NH <sub>4</sub>	CAS No: 3793-74-6
(10) PFDS refer to its salts including	
PFDS-Na	CAS No.: 2806-15-7
PFDS-K	CAS No.: 2806-16-8
PFDS-NH <sub>4</sub>	CAS No.: 67906-42-7
(11) H2PFDA / 8:2 FTCA refer to its salt/derivative including	
8:2 FTCA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub>	CAS No.: 882489-14-7
(12) H4PFUnDA/ 8:3 FTCA refer to its salts including	
H4PFUnDA-K	CAS No.: 83310-58-1
(22) PFUnDA refers to its salts including	
PFUnDA-Na	CAS No.: 60871-96-7
PFUnDA-NH <sub>4</sub>	CAS No.: 4234-23-5

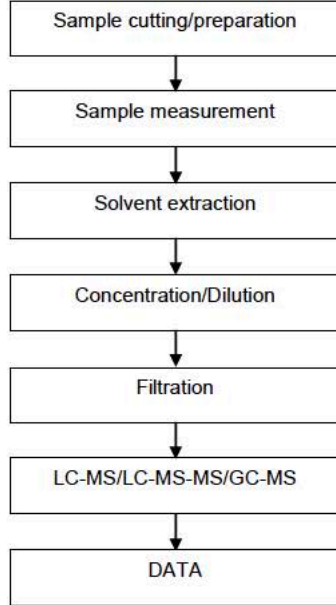
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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**PFASs/ PFOS/PFOA Testing Flow Chart**



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