

**Test Report** No.: CANEC25008849503 **Date**: Apr 29, 2025 Page 1 of 17

Client Name: Uniroyal Electronics Industry Co., Ltd.

Client Address: 88 Longteng Road, Economic & Technical Development Zone, Kunshan City, Jiangsu,

CHINA

Sample Name: Traditional Cement Resistors

Buyer: Uniroyal Electronics Global Co.,Ltd

Supplier: Uniroyal Electronics Industry Co., Ltd.

Aeon Technology Corporation Co.,Ltd.

Royal Electronic Factory (Thailand) Co.,Ltd.

Royal Technology (Thailand) Co.,Ltd. UNUS TECHNOLOGY CORPORATION

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

\_\_\_\_\_\_

SGS Job No.: XMP25-001736 Sample Receiving Date: Apr 21, 2025

Testing Period: Apr 21, 2025 ~ Apr 29, 2025

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

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

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

Test Requirement	Conclusion
European Regulation POPs (EU) 2023/1608 amending to Regulation (EU)	Pass
2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds	Fass
European Regulation POPs (EU) 2020/784 amending to Regulation (EU)	
2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-	Pass
Related Substances, Perfluorooctane sulfonic acid (PFOS) and its derivatives	
Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH	
Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14	Pass
PFCA-related substances	

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie

Approved Signatory





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#### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0088495-0001.C001	White ceramic shell with black printing
SN2	A2	CAN25-0088495-0001.C002	White ceramic

#### Remarks:

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

## <u>European Regulation POPs (EU) 2023/1608 amending to Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds</u>

**Test Method:** Modified EN 17681-1:2022 and EN 17681-2:2022, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
PFHxS, its salts						
Perfluorohexanesulfonic acid (PFHxS), its salts^	355-46-4	0.025	mg/kg	0.010	ND	ND
PFHxS-related compounds						
N-Methylperfluoro-1- hexanesulfonamide (N-Me- PFHxSA)	68259-15-4	1	mg/kg	0.010	ND	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	1	mg/kg	0.010	ND	ND
N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonam ide (N-AP-FHxSA)	50598-28-2	1	mg/kg	0.010	ND	ND
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	1	mg/kg	0.200	ND	ND
2-Propenoic acid, 2-methyl-, 2- [methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]ami no]ethyl ester	67584-61-6	1	mg/kg	0.200	ND	ND
2-Propenoic acid, 2-methyl-, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6 - tridecafluorohexyl)sulfonyl]ami no]ethyl ester	67906-70-1	1	mg/kg	0.200	ND	ND
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-N-(2- hydroxyethyl)-N-methyl- (MeFHxSE)	68555-75-9	1	mg/kg	0.010	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
Glycine, N-ethyl-N- [(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl] (EtFHxSAA), its salts^	68957-32-4	1	mg/kg	0.010	ND	ND
Sum of PFHxS-related compounds	-	1	mg/kg	-	ND	ND
Conclusion						Pass

#### Notes:

(1) Commission Delegated Regulation (EU) 2023/1608 of May 30, 2023, amending to Regulation (EU) 2019/1021 Annex I as regard the listing of perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds, Official Journal of the EU, August 8, 2023.

Substance	Scope	Specific exemption on intermediate use or other specification
PFHxS and its salts	Substances, mixtures or articles	≤ 0.025 mg/kg
PFHxS-related compounds	Substances, mixtures or articles	≤ 1 mg/kg (individual or sum of all)
PFHxS, its salts and PFHxS-related compounds	Concentrated firefighting foam	≤ 0.1 mg/kg (to be reviewed within three years after entry into force of this amending regulation with a view to lower the limit)

- (2) The tested perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds refer to the "Listed under the POPs Regulation" of ECHA, please find more information via below weblink: https://echa.europa.eu/list-of-substances-proposed-as-pops
- (3) ^=Substances refer to its salts/derivative listed in below table

PFHxS, its salts & derivatives	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4
Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5
Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1) (PFHxS-Li)	55120-77-9
Ammonium perfluorohexane-1-sulphonate (PFHxS-NH <sub>4</sub> )	68259-08-5
Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP)	1000597-52- 3
N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N( $C_4H_9$ ) <sub>4</sub> )	108427-54-9
N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS- $N(C_2H_5)_4$ )	108427-55-0
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-NC <sub>4</sub> H <sub>9</sub> )	1187817-57- 7
Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-	1310480-24-
naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-,	0
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	
(Calculated in terms of PFHxS) (PFHxS-(NC <sub>10</sub> H <sub>14</sub> ) <sub>3</sub> C <sub>5</sub> H <sub>4</sub> )	



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Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-	1310480-27-
naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-,	3
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-	
$(NC_8H_{10})_2C_{13}H_{12})$	1,2,2,2,2,2
Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-	1310480-28-
naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-,	4
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-	
$(NC_8H_{10})_2C_{17}H_{12})$	1000005 15
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-	1329995-45-
hexanesulfonic acid ion(1-)(1:1) (PFHxS-C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> )	0
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-	1329995-69-
tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)(PFHxS-C <sub>48</sub> H <sub>80</sub> O <sub>40</sub> )	8
Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-	144116-10-9
hexanesulfonate (1:1) (TPS-PFHxS)	4400444.50
Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-	1462414-59-
1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-,	0
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-	
$C_{44}H_{37}N_2O_2$	450440 05 7
lodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-	153443-35-7
hexanesulfonate (1:1) (PFHxS-I(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> )	100074 24 5
Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-	189274-31-5
tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-TMA)	202189-84-2
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,	202189-84-2
compd.with 2-methyl-2-propanamine (1:1)(PFHxS-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>3</sub> )	040740 04 0
lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-	213740-81-9
tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )	341035-71-0
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)(PFHxS-Ga)	341035-71-0
Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-	341548-85-4
tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S( $C_7H_7$ ) <sub>2</sub> $C_6H_5$ )	341340-03-4
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,	350836-93-0
scandium(3+) salt (3:1)(PFHxS-Sc)	330630-93-0
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,	41184-65-0
neodymium(3+) salt (3:1)(PFHxS-Nd)	41104-03-0
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,	41242-12-0
yttrium(3+) salt (3:1)(PFHxS-Y)	41242-12-0
Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with	421555-73-9
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)(	421000-70-9
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> )	
lodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with	421555-74-0
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic(PFHxS-I	121000740
$(C_6H_4)_2(C_5H_{11})$	
Perflurohexane sulphonyl fluoride(PFHxS-F)	423-50-7
Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-	425670-70-8
tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S( $C_6H_4$ ) <sub>3</sub> ( $C_4H_9$ ) <sub>3</sub> )	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt	70136-72-0
(PFHxS-Zn)	1.0100720
Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol	70225-16-0
$(1:1)(PFHxS-NH(C_2H_5O)_2)$	. 5225 10 0
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.	72033-41-1
1 110.00110001101110 0000, 1,1,2,2,0,0,7,7,0,0,0,0,0,0,01100001110010-, 00111pu.	1 1 2000-41-1



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rioport	140	CANLO23000049300	Date. Apr	23, 2023
with N,N-diethylethar	namine	(1:1)(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )		
lodonium, bis[(1,1-dir	nethyle	thyl)phenyl]-, salt with		866621-50-3
1,1,2,2,3,3,4,4,5,5,6,	6,6-tride	ecafluoro-1-hexanesulfonic a	cid (1:1) (9CI)	
$(PFHxS-I(C_6H_4)_2(C_4H_4)_2(C_5H_4)_2(C_5H_4)_2(C_5H_4)_2(C_5H_4)_2(C_5H_4)_2(C_5H_4)_2(C_5H_4)_2(C_5H_4)_2(C_5H_4)_2(C_5H_5)_2(C_5H_$	$(9)_2$			
Sulfonium, (4-methyl	phenyl)	diphenyl-, 1,1,2,2,3,3,4,4,5,5	,6,6,6-	910606-39-2
		ate (1:1)( PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C		
		xo-2-propen-1-yl)oxy]phenyl]		911027-68-4
1,1,2,2,3,3,4,4,5,5,6,	6,67trid	ecafluoro-1-hexanesulfonate	(1:1) ( PFHxS-	
$S(C_6H_5)_28_{10}H_9O_2)$				
1-Hexanesulfonic aci	d, 9,1,2	.,2,3,3,4,4,5,5,6,6,6-tridecaflu	ıoro-, cesium	92011-17-1
salt (1:1) (PFHxS-Cs	) (PFHx	(S-Cs)		
		aoxathiacyclopentadecinium	, 19-[4-(1,1-	928049-42-7
dimethylethyl)phenyl				
1,1,2,2,3,3,4,4,5,5,6,	6,6-tride	ecafluoro-1-hexanesulfonate	(1:1) (PFHxS-	
SC <sub>28</sub> H <sub>31</sub> O <sub>4</sub> )				
Perfluorohexylsulfony		,		55591-23-6
		xo-2-propenyl)oxy]phenyl]dip		911027-69-5
		ecafluoro-1-hexanesulfonic a		
		3.3.1.13,7]dec-2-yl 2-methyl-2		
		dec-1-yl 2-methyl-2-propeno		
1	ıranyl 2-	-methyl-2-propenoate (PFHx	S-Sulfonium,	
propenoate polymer)				
Perfluorohexane sulf				108427-53-8
Tetrabutylphosphonii	um perfl	luorohexane sulfonate (PFHx	$(S-P (C_4H_9)_4))$	2310194-12-
				6
EtFHxSAA, its salts				
Glycine, N-ethyl-N-[(	1,1,2,2,3	3,3,4,4,5,5,6,6,6-tridecafluord	ohexyl)sulfonyl]	68957-32-4
(EtFHxSAA)				
,	[(trideca	afluorohexyl)sulfonyl]glycinat	e (EtFHxSAA-	67584-53-6
K)				
	ridecaflu	uorohexyl)sulphonyl)glycinate	e (EtFHxSAA-	68555-70-4
Na)				

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

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

**Test Method:** With reference to modified EN 17681-1:2022 and EN 17681-2:2022, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2	
PFOS, its salts and related compounds							
Perfluorooctane sulfonic acid (PFOS), its salts^	1763-23-1	-	mg/kg	0.010	ND	ND	



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
N-ethylperfluoro-1-						
octanesulfonamide (N-	4151-50-2	_	mg/kg	0.010	ND	ND
EtFOSA)			3 3			
N-methylperfluoro-1-						
octanesulfonamide (N-	31506-32-8	_	mg/kg	0.010	ND	ND
MeFOSA)	31300-32-0	_	mg/kg	0.010	IND	IND
2-(N-ethylperfluoro-1-						
	1001 00 0		100 m/lcm	0.010	ND	ND
octanesulfonamido)-ethanol	1691-99-2	-	mg/kg	0.010	ND	ND
(N-EtFOSE)						
2-(N-methylperfluoro- 1-						
octanesulfonamido) -ethanol	24448-09-7	-	mg/kg	0.010	ND	ND
(N-MeFOSE)						
Perfluorooctane sulfonamide	754-91-6		mg/kg	0.010	ND	ND
(PFOSA), its salts <sup>^</sup>	734-91-0	_	mg/kg	0.010	שוו	שוו
Perfluorooctane						
sulfonamidoacetic Acid	2806-24-8	_	mg/kg	0.010	ND	ND
(FOSAA), its salts^			3 3			
N-Methylperfluoro-1-						
octanesulfonamidoacetic Acid	2355-31-9	_	mg/kg	0.010	ND	ND
(N-MeFOSAA), its salts^	2000-01-9	_	mg/kg	0.010	IND	IND
N-Ethylperfluorooctane	0004 50 0			0.040	ND	ND
sulfonamidoacetic Acid (N-	2991-50-6	-	mg/kg	0.010	ND	ND
EtFOSAA), its salts^						
Sum of Perfluorooctane						
sulfonic acid (PFOS) and its	-	1000	mg/kg	-	ND	ND
derivatives						
PFOA, its salts						
Perfluorooctanoic acid (PFOA),	205 07 4	0.005		0.040	ND	ND
its salts^	335-67-1	0.025	mg/kg	0.010	ND	ND
PFOA-related compounds						ı
1H,1H,2H,2H-						
Perfluorodecanesulfonic acid	39108-34-4	1	mg/kg	0.010	ND	ND
(8:2 FTS), its salts^	33100-34-4	'	mg/kg	0.010	IND	IND
Methyl perfluorooctanoate						
	376-27-2	1	mg/kg	0.200	ND	ND
(Me-PFOA)						
Ethyl perfluorooctanoate (Et-	3108-24-5	1	mg/kg	0.200	ND	ND
PFOA)		-	11.9.1.9			
1H,1H,2H,2H-Perfluorodecyl	1996-88-9	1	mg/kg	0.100	ND	ND
methacrylate (8:2 FTMA)	1000 00 0	•	mg/kg	0.100	110	ND
1H,1H,2H,2H-Perfluorodecyl	27905-45-9	4	malka	0.100	ND	ND
acrylate (8:2 FTA)	27905-45-9	1	mg/kg	0.100	שוו	שוו
Perfluoro-1-iodooctane (PFOI)	507-63-1	1	mg/kg	0.200	ND	ND
2H,2H-Perfluorodecane Acid						
(8:2 FTCA), its salts^	27854-31-5	1	mg/kg	0.010	ND	ND
1H,1H,2H,2H-Perfluoro-1-						
decanol (8:2 FTOH)	678-39-7	1	mg/kg	0.100	ND	ND
			_			
1-lodo-1H,1H,2H,2H-	2043-53-0	1	mg/kg	0.100	ND	ND
perfluorodecane (8:2 FTI)			Jg			



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
1H,1H,2H,2H-	404047.46.4	4		0.400	ND	ND
Perfluorodecyltriethoxysilane (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	101947-16-4	1	mg/kg	0.100	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,1 0,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts ^	678-41-1	1	mg/kg	0.010	ND	ND
2H,2H,3H,3H- Perfluoroundecanoic Acid (8:3 FTCA), its salts^	34598-33-9	1	mg/kg	0.010	ND	ND
1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	1	mg/kg	0.100	ND	ND
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	1	mg/kg	0.010	ND	ND
1H,1H,2H,2H- Perfluorodecyltrichlorosilane/ 1H,1H,2H,2H- Perfluorodecyltrimethoxysilane	78560-44-8 /83048-65-1	1	mg/kg	0.100	ND	ND
2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	1	mg/kg	0.010	ND	ND
6:8 Perfluorophosphinic acid (6:8 PFPi)	610800-34-5	1	mg/kg	0.010	ND	ND
8:8 Perfluorophosphinic acid (8:8 PFPi), its salts^	40143-79-1	1	mg/kg	0.010	ND	ND
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	1	mg/kg	0.100	ND	ND
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts^	57678-03-2	1	mg/kg	0.100	ND	ND
Sum of PFOA-related compounds	-	1	mg/kg	-	ND	ND
Conclusion					Pass	Pass

#### Notes:

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

Substance Name	CAS No.
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH <sub>4</sub> )	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-	70225-14-8
$NH_2(C_2H_4OH)_2)$	
Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-	56773-42-3
$N(C_2H_5)_4)$	
N-decyl-N,N-dimethyldecan-1-aminium	251099-16-8
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate	



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Opera non onneozooooo+35000 Date: 7	Apr 20, 2020
$(PFOS-N(C_{10}H_{21})_2(CH_3)_2)$	
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	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-	71463-74-6
heptadecafluorooctanesulfonate	
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )	56773-44-5
N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-	56773-56-9
sulfonate (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> ))	
N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-	124472-68-0
sulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))	
lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-	213740-80-8
octanesulfonic acid (1:1)	
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-	258341-99-0
octanesulfonate	004-00
1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P	2185049-59-4
$(C_4H_9)_4))$	
Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)	2205029-08-7
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium	1203998-97-3
heptadecafluorooctane-1-sulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )	100.00.7
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-	909405-48-7
FOSAA(anion))	70004 00 5
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate	70281-93-5
(N-Me-FOSAA-K)	
N-EtFOSAA, its salts	2004 50 6
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7
(N-Et-FOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-	909405-49-8
z-(N-Ethyl-perildorooctanesulionamido)acetate (N-Et- FOSAA(anion))	303403-43-0
Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-	2991-52-8
FOSAA-NH <sub>4</sub> )	2991-02-0
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-	3871-50-9
FOSAA-Na)	307 1-30-8
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide (FFOSA)  Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
r emuoroocianesunonamide ilinium sait (1.1) (PPOSA-LI)	10102-19-9



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•	•
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 <sub>4</sub> )	76752-72-2
Heptadecafluorooctane-1-sulphonamide, compound with	76752-82-4
triethylamine (1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)	
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-,	68141-02-6
chromium(3+) (PFOA-Cr(3+))	00141-02-0
Pentadecafluorooctanoic acidpiperazine (2/1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> 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 pentadecafluorooctanoatewater (1/1/2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)	1376936-03-6
Pentadecafluorooctanoic acidpyridine (1/1) (PFOA-C <sub>5</sub> H <sub>5</sub> N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )	1514-68-7
$N,N,N$ -Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA- $C_{11}H_{26}N$ )	927835-01-6
8:2 FTS, its salts	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Potassium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-K)	438237-73-1
Ammonium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-	149724-40-3
NH <sub>4</sub> )	1-072-1-10-0
Sodium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-Na)	27619-96-1
2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7
8:2 FTCA, its salts	1 - <del>1</del> 0 101 1-10-1
2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-	882489-14-7
$P(C_4H_9)_4$	002403-14-1
P(O₄□9)₄) 8:2diPAP, its salts	1
Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)	678-41-1
	0/0-41-1
hydrogen phosphate (8:2diPAP)	1111510 05 0
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6
Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1
Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-	93776-20-6



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•	-, -
NH <sub>4</sub> )	
8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1
8:3 FTCA, its salts	
2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1
2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8
8:8 PFPi, its salts	
8:8 Perfluorophosphinic acid (8:8 PFPi)	40143-79-1
Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPi-	500776-69-2
Na)	
Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er)	500776-70-5
Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPi-Yb)	500776-71-6
8:2 monoPAP, its salts	
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2
8:2 Fluorotelomer diammonium phosphate	93857-44-4
Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3
Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium	92401-44-0
salt	
Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0
Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6
Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8

<sup>(2)</sup> The conclusion is only applicable to the substance list in the report.

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

**Test Method:** Modified EN 17681-1:2022 and EN 17681-2:2022, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2	
C9-C14 PFCA, their salts	C9-C14 PFCA, their salts						
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	μg/kg	10	ND	ND	
Perfluorodecane Acid (PFDA), its salts^	335-76-2	-	μg/kg	10	ND	ND	
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	-	μg/kg	10	ND	ND	
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND	ND	
Perfluorotridecanoic Acid (PFTrDA), its salts^	72629-94-8	-	μg/kg	10	ND	ND	
Perfluorotetradecanoic Acid (PFTDA), its salts^	376-06-7	-	μg/kg	10	ND	ND	
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	μg/kg	10	ND	ND	
Sum of C9-C14 PFCA, their salts	-	25	μg/kg	-	ND	ND	



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titopoit No C	ANEC25000048	303	Date.	Apr 29, 20	23	Fage 11
Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
C9-C14 PFCA-related substances						
Perfluorodecane sulfonic acid (PFDS), its salts^	335-77-3	-	μg/kg	10	ND	ND
1H,1H,2H,2H-Perfluoro-1- dodecanol (10:2 FTOH)	865-86-1	-	μg/kg	100	ND	ND
1H,1H,2H,2H- Perfluorododecylacrylate (10:2 FTA)	17741-60-5	-	μg/kg	100	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	μg/kg	100	ND	ND
1H,1H,2H,2H- perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	μg/kg	100	ND	ND
1H,1H,2H,2H- Perfluorododecane sulfonic acid (10:2 FTS), its salts^	120226-60-0	-	μg/kg	100	ND	ND
1,1,2,2- Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	μg/kg	100	ND	ND
1H,1H,2H,2H- Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	μg/kg	100	ND	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	μg/kg	10	ND	ND
Perfluoroundecane sulfonic acid (PFUnDS), its salts^	749786-16-1	-	μg/kg	10	ND	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	μg/kg	10	ND	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts^	791563-89-8	-	μg/kg	10	ND	ND
10:2 Fluortelomerphosphatediester (10:2 diPAP), its salts^	1895-26-7	-	μg/kg	100	ND	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	μg/kg	100	ND	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	-	μg/kg	100	ND	ND
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	-	μg/kg	100	ND	ND
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	-	μg/kg	100	ND	ND
1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)	37858-05-2	-	μg/kg	100	ND	ND
1H,1H,2H,2H- Perfluorodecanesulfonic acid (8:2 FTS), its salts^	39108-34-4	-	μg/kg	10	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	μg/kg	100	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	μg/kg	100	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
2H,2H-Perfluorodecane Acid (8:2 FTCA), its salts^	27854-31-5	-	μg/kg	10	ND	ND
1H,1H,2H,2H-Perfluoro-1- decanol (8:2 FTOH)	678-39-7	-	μg/kg	100	ND	ND
1-lodo-1H,1H,2H,2H- perfluorodecane (8:2 FTI)	2043-53-0	-	μg/kg	100	ND	ND
1H,1H,2H,2H- Perfluorodecyltriethoxysilane (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	101947-16-4	-	μg/kg	100	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,1 0,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	µg/kg	10	ND	ND
2H,2H,3H,3H- Perfluoroundecanoic Acid (8:3 FTCA), its salts^	34598-33-9	-	μg/kg	10	ND	ND
1H,1H,2H-Heptadecafluoro-1- decene (PFDE)	21652-58-4	-	μg/kg	100	ND	ND
1H,1H,2H,2H- Perfluorodecyltrichlorosilane ( 8:2 FTSiCl <sub>3</sub> )/1H,1H,2H,2H- Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH <sub>3</sub> ) <sub>3</sub> )	78560-44-8 /83048-65-1	-	μg/kg	100	ND	ND
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	-	μg/kg	100	ND	ND
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP) , its salts^	57678-03-2	-	μg/kg	100	ND	ND
10:2 Fluortelomerphosphatemonoes ter (10:2 monoPAP), its salts^	57678-05-4	-	μg/kg	100	ND	ND
Sum of C9-C14 PFCA-related substances		260	μg/kg		ND	ND
Conclusion					Pass	Pass

#### Notes:

- (1)  $1\mu g/kg=1ppb$ .
- (2) Until 25 August 2024, the concentration limit shall be 2000 ppb for the sum of C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups. From 25 August 2024, the concentration limit shall be 100 ppb for the sum of C9-C14 PFCAs, in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.
- (3) The concentration limit shall be 1000ppb for the sum of C9-C14 PFCAs, where these are present in PTFE micro powders produced by ionising irradiation or by thermal degradation, as well as in mixtures and articles for industrial and professional uses containing PTFE micro powders.
- (4) ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFNA, its salts	
Perfluorononane Acid (PFNA)	375-95-1



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. topoit	110 OANLO23000043300	<b>Date:</b> Apr 20, 2020
Perfluorononanoate Na	a-Salt (PFNA-Na)	21049-39-8
Nonanoic acid, heptade	ecafluoro-, ammonium salt (PFNA-Ni	H <sub>4</sub> ) 4149-60-4
Potassium perfluorono	nanoate (PFNA-K)	21049-38-7
Perfluorononanoate Li-	-Salt (PFNA-Li)	60871-92-3
Silver perfluorononano		7358-16-9
	orononanoate (PFNA-NH <sub>3</sub> (CH <sub>3</sub> ))	77032-23-6
	4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafl	
	nanamine (1:1) PFNA-NH <sub>2</sub> ( $C_2H_5$ ) <sub>2</sub> )	, l
	,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafl	uoro-, 77032-24-7
	nethanamine (1:1) (PFNA-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub>	
Nonanoic acid, heptade	ecafluoro-, compd. with N,N-diethylet	hanamine 327176-80-7
(1:1) (9CI) (PFNA-NH(		
	ecafluoro-, compd. with piperidine (1:	1) (9CI) 95682-66-9
(PFNA-NH2(C5H10))		
	,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafl	uoro-, 95682-67-0
	nine (1:1) (PFNA-NH <sub>3</sub> ( $C_6H_5$ ))	
	ecafluoro-, compd. with cyclohexanar	mine (1:1)   328531-06-2
(9CI) (PFNA-NH <sub>3</sub> (C <sub>6</sub> H <sub>1</sub>		
Perfluorononanoate (a		72007-68-2
	zinyl)sulfamoyl]anilinium	298703-33-0
	oate (PFNA-C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S)	
Perfluorononanoic anh	ydride (PFNAA)	228407-54-3
PFDA, its salts		
Perfluorodecane Acid (		335-76-2
Sodium perfluorodecar		3830-45-3
Perfluorodecanoate an	nmonium salt (PFDA-NH <sub>4</sub> )	3108-42-7
Potassium perfluorode	canoate (PFDA-K)	51604-85-4
Silver perfluorodecano	ate (PFDA-Ag)	5784-82-7
Lithium perfluorodecan		84743-32-8
Perfluorodecanoate (ar	nion)	73829-36-4
Perfluorodecanoic anh	ydride (PFDAA)	942199-24-8
PFUnDA, its salts		
Perfluoroundecanoic A	.cid (PFUnDA)	2058-94-8
Perfluoroundecanoic a	cid sodium salt (PFUnDA-Na)	60871-96-7
Ammonium perfluorour	ndecanoate (PFUnDA-NH <sub>4</sub> )	4234-23-5
	decanoate (PFUnDA-K)	30377-53-8
Calcium perfluorounde	canoate (PFUnDA-Ca)	97163-17-2
Perfluoroundecanoate	(anion)	196859-54-8
PFDoDA, its salts		
Perfluorododecanoic A	cid (PFDoDA)	307-55-1
Ammonium tricosafluor	rododecanoate (PFDoDA-NH <sub>4</sub> )	3793-74-6
Perfluorododecanoate	(anion)	171978-95-3
PFTrDA, its salts		
Perfluorotridecanoic Ad	cid (PFTrDA)	72629-94-8
Ammonium perfluorotri	idecanoate (PFTrDA-NH₄)	4288-72-6
Sodium perfluorotridec		60872-01-7
Perfluorotridecanoate		862374-87-6
PFTDA, its salts	•	•
Perfluorotetradecanoic	Acid (PFTDA)	376-06-7
	• • •	



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. topo. t	No.: OANEO2000043300 Date:	Apr 20, 2020
Perfluorotetradeca	anoate (anion)	365971-87-5
PFDS, its salts		
Perfluorodecane S	Sulfonate (PFDS)	335-77-3
Perfluorodecanes	ulfonate Na-salt (PFDS-Na)	2806-15-7
Perfluorodecanes	ulfonate K-salt (PFDS-K)	2806-16-8
Perfluorodecanes	ulfonic acid ammonium salt (PFDS-NH <sub>4</sub> )	67906-42-7
Perfluorodecane s	sulfonate (anion)	126105-34-8
Perfluorodecane s	sulfonic anhydride (PFDSA)	51667-62-0
PFNS, its salts		•
Perfluoro nonane	sulfonic acid (PFNS)	68259-12-1
	-1-nonanesulfonate (PFNS-Na)	98789-57-2
	lecafluorononanesulphonate (PFNS-NH <sub>4</sub> )	17202-41-4
	prononanesulfonate (PFNS-K)	29359-39-5
Perfluorononane :		474511-07-4
PFUnDS, its salts	, ,	
	e sulfonic acid (PFUnDS)	749786-16-1
	esulfonate (anion)	441296-91-9
PFDoDS, its salts	, ,	1==================================
	esulfonic acid (PFDoDS)	79780-39-5
	-1-dodecanesulfonate (PFDoDS-Na)	1260224-54-1
	prododecanesulfonate (PFDoDS-K)	85187-17-3
	e sulfonate (anion)	343629-43-6
PFTrDS, its salts	(dimen)	10.0020 .00
	e sulfonic acid (PFTrDS)	791563-89-8
	-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1
10:2 diPAP , its sa		1
· · · · · · · · · · · · · · · · · · ·	phosphatediester (10:2 diPAP)	1895-26-7
	(l)ethyl) hydrogen phosphate 2,2'-iminodiethanol	57677-98-2
(10:2 diPAP-C <sub>4</sub> H <sub>1</sub>		
8:2 FTS, its salts	1-2)	
	fluorodecanesulfonic acid (8:2 FTS)	39108-34-4
	,2H,2H-Perfluorodencane sulfonate (8:2 FTS-K)	438237-73-1
	H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-NH <sub>4</sub> )	
	I,2H-Perfluorodencane sulfonate (8:2 FTS-Na)	27619-96-1
	ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7
8:2 FTCA, its salts		10.01.10.1
	ecane Acid (8:2 FTCA)	27854-31-5
	onium 2H,2H-Perfluorodecanoate (8:2 FTCA-	882489-14-7
$P(C_4H_9)_4)$	,	332.33
8:2 diPAP, its salt	S	·
	5,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)	678-41-1
hydrogen phosph		
	I,2H,2H-perfluorodecyl)phosphate (8:2 diPAP-Na)	114519-85-6
	/l)ammonium bis((perfluorooctyl)ethyl) hydrogen	57677-97-1
phosphate	.,	
	tyl)ethyl] phosphate ammonium salt (8:2 diPAP-	93776-20-6
NH <sub>4</sub> )	-5./2	33.73.20.0
	phosphate diester ion (1-)	1411713-91-1
8:3 FTCA, its salts	,	



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2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1
2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8
8:2 monoPAP, its salts	
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2
8:2 Fluorotelomer diammonium phosphate	93857-44-4
Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3
Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium	92401-44-0
salt	
Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0
Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6
Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8
10:2 monoPAP, its salts	
10:2 Fluortelomerphosphatemonoester (10:2 monoPAP)	57678-05-4
10:2 Fluorotelomer diammonium dihydrogen phosphate	93857-45-5

<sup>(5)</sup> The conclusion is only applicable to the substance list in the report.

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.



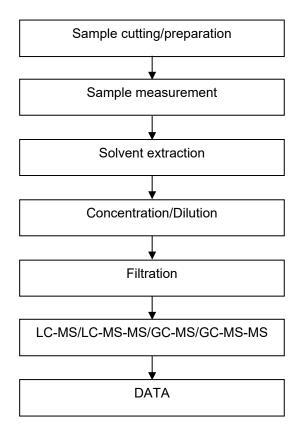
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## Test Report ATTACHMENTS

### PFASs/ PFOS/PFOA Testing Flow Chart





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**Sample Photo:** 





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