

Test Report

No.: SHAEC24014614309

Date: Jul 17, 2024

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Client Name: SUZHOU XINLVZHOU ELECTRONICS CO., LTD.

Client Address: SHANJI ROAD 158,XIANGCHENG DISTRICT,SUZHOU CITY,JIANGSU,CHINA.

Sample Name: Warriors LR1130 1.5V 0%HgPb ALKALINE BUTTON CELL

Client Ref. Information: LR521,LR621,LR726,LR41,LR626,LR754,LR921,LR1120,LR936,LR44,LR721,LR43

Sample Type: Portable cell (non-zinc-air button cell)

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

SGS Job No.: SHP24-021498

Sample Receiving Date: Jul 03, 2024

Testing Period: Jul 03, 2024 ~ Jul 11, 2024

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
Entry 20 of Regulation (EU) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds	Pass
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	Pass

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

Annie Liu

Annie Liu

Approved Signatory

scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A6	SHA24-0146143-0001.C006	Silver cell

Remarks:

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

Entry 20 of Regulation (EU) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A6
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND
Diocetyl(DOT) by Weight of Tin	0.1	%	0.01	ND
Conclusion				Pass

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 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	A6
C9-C14 PFCA, their salts					
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	µg/kg	10	ND
Perfluorodecane Acid (PFDA), its salts^	335-76-2	-	µg/kg	10	ND
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	-	µg/kg	10	ND
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND
Perfluorotridecanoic Acid (PFTrDA), its salts^	72629-94-8	-	µg/kg	10	ND
Perfluorotetradecanoic Acid (PFTDA), its salts^	376-06-7	-	µg/kg	10	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A6
Sum of C9-C14 PFCA, their salts	-	25	µg/kg	-	ND
C9-C14 PFCA-related substances					
Perfluorodecane sulfonic acid (PFDS), its salts^	335-77-3	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	-	µg/kg	10	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	µg/kg	10	ND
Perfluoroundecane sulfonic acid (PFUnDS), its salts^	749786-16-1	-	µg/kg	10	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts^	791563-89-8	-	µg/kg	10	ND
10:2 Fluorotelomerphosphatediester (10:2 diPAP)	1895-26-7	-	µg/kg	100	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	µg/kg	100	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts^	39108-34-4	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts^	27854-31-5	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	µg/kg	10	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts^	34598-33-9	-	µg/kg	10	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A6
1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyltrichlorosilane/ 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	78560-44-8 /83048-65-1	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecylmethyldichlorosilane	3102-79-2	-	µg/kg	100	ND
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	-	µg/kg	10	ND
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	-	µg/kg	10	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND
Conclusion					Pass

Notes:

- (1) 1µg/kg=1ppb.
- (2) Until 25 August 2024, the concentration limit 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
Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8
Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4
Potassium perfluorononanoate (PFNA-K)	21049-38-7
Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3
Silver perfluorononanoate (PFNA-Ag)	7358-16-9
Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) (PFNA-NH ₂ (C ₂ H ₅) ₂)	77032-27-0
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-NH ₂ (CH ₃) ₂)	77032-24-7
Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7
Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-NH ₃ (C ₆ H ₅))	95682-67-0
Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2



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Perfluorononanoate (anion)	72007-68-2
PFDA, its salts	
Perfluorodecane Acid (PFDA)	335-76-2
Sodium perfluorodecanoate (PFDA-Na)	3830-45-3
Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7
Potassium perfluorodecanoate (PFDA-K)	51604-85-4
Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
Perfluorodecanoate (anion)	73829-36-4
PFUnDA, its salts	
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8
Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7
Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5
Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2
Perfluoroundecanoate (anion)	196859-54-8
PFDODA, its salts	
Perfluorododecanoic Acid (PFDODA)	307-55-1
Ammonium tricosafuorododecanoate (PFDODA-NH ₄)	3793-74-6
Sodium perfluorododecanoate (PFDODA-Na)	60872-01-7
Perfluorododecanoate (anion)	171978-95-3
PFTTrDA, its salts	
Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8
Ammonium perfluorotridecanoate (PFTTrDA-NH ₄)	4288-72-6
Perfluorotridecanoate (anion)	862374-87-6
PFTDA, its salts	
Perfluorotetradecanoic Acid (PFTDA)	376-06-7
Perfluorotetradecanoate (anion)	365971-87-5
PFDS, its salts	
Perfluorodecane Sulfonate (PFDS)	335-77-3
Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7
Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8
Perfluorodecanesulfonic acid ammonium salt (PFDS-NH ₄)	67906-42-7
Perfluorodecane sulfonate (anion)	126105-34-8
PFNS, its salts	
Perfluoro nonane sulfonic acid (PFNS)	68259-12-1
Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2
ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4
Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5
Perfluorononane sulfonate (anion)	474511-07-4
PFUnDS, its salts	
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1
Perfluoroundecanesulfonate (anion)	441296-91-9
PFDODS, its salts	
Perfluorododecanesulfonic acid (PFDODS)	79780-39-5
Sodium perfluoro-1-dodecanesulfonate (PFDODS-Na)	1260224-54-1
Potassium perfluorododecanesulfonate (PFDODS-K)	85187-17-3
Perfluorododecane sulfonate (anion)	343629-43-6
PFTTrDS, its salts	



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Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8
Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1
8:2 FTS, its salts	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K)	438237-73-1
Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH ₄)	149724-40-3
Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)	27619-96-1
H₂PFDA/8:2 FTCA, its salts	
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA)	27854-31-5
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7
8:2diPAP, its salts	
Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)hydrogen phosphate (8:2diPAP)	678-41-1
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6
H₄PFUnDA/ 8:3 FTCA, its salts	
2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnDA/ 8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H ₄ PFUnDA-K)	83310-58-1

Results & photo(s) of this report refer to test report SHAEC24014614306.

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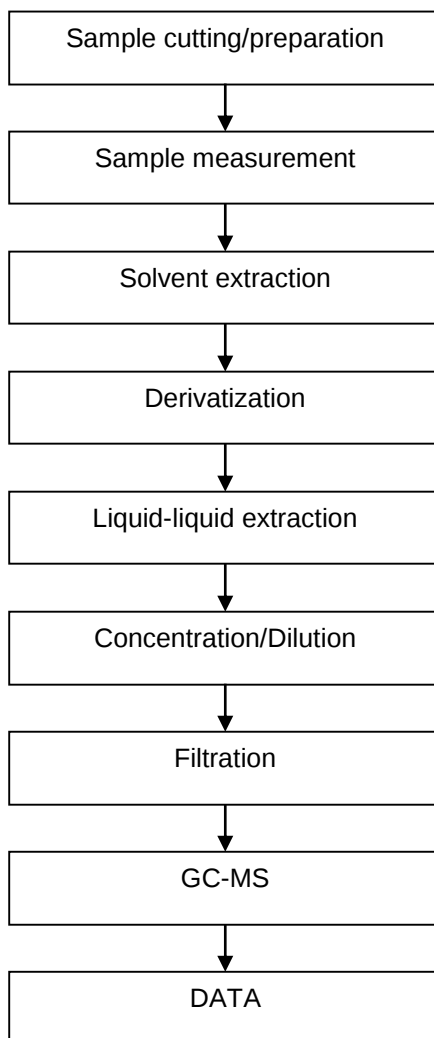
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Organotin Testing Flow Chart



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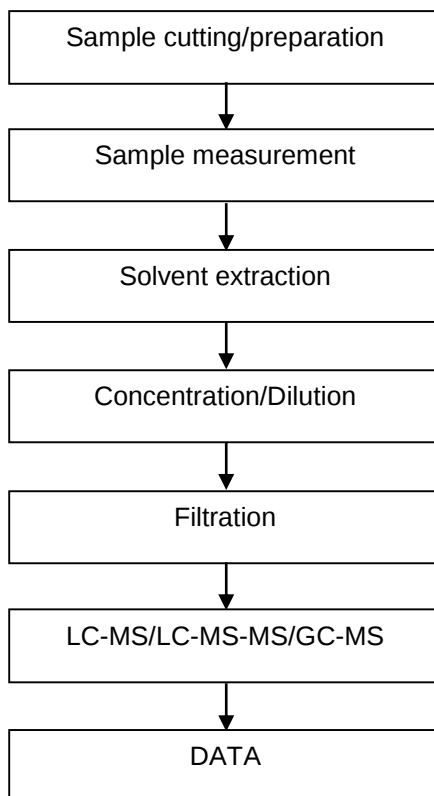
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PFASs/ PFOS/PFOA Testing Flow Chart



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