

st Report	No.:	CANEC24021918101	Date:	Oct 23, 2024	Page 1 of 16	
Client Name:	Uniroyal Electr	onics Industry Co., Ltd.				
Client Address:	88 Longteng R CHINA	oad, Economic & Technica	l Developmer	nt Zone, Kunshai	n City, Jiangsu,	
Sample Name:	Т	raditional Cement Resistors	6			
Buyer:	U	niroyal Electronics Global (Co.,Ltd.			
Supplier:	ם ה ר נ	Jniroyal 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 sam	ple(s) and inform	mation were provided by th	e client.			
SGS Job No ·	×	MP24-004502				

3G3 J0D NO	XIVIP24-004502
Sample Receiving Date:	Oct 08, 2024
Testing Period:	Oct 08, 2024 ~ Oct 15, 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
Draft regulations to European Regulation POPs (EU) 2019/1021 Annex I and its amendments	Pass
European Regulation POPs (EU) 2024/2570 amending to Regulation (EU) 2019/1021 Annex I–Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	Pass
European Regulation POPs (EU) 2019/1021 Annex I– Alkanes C ₁₀ -C ₁₃ , chloro (short chain-chlorinated paraffins) (SCCPs)	Pass
European Regulation POPs (EU) 2021/277 amending to Regulation (EU) 2019/1021 Annex I– Pentachlorophenol (PCP) and its salts and esters	Pass
European Regulation POPs (EU) 2019/1021 Annex I-Halogenated compounds	Pass
European Regulation POPs (EU) 2023/1608 amending to Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds	Pass

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

Allie Chen

Allie Chen Approved Signatory





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les	st Report	No.:	CANEC24021918101	Date:	Oct 23, 2024	Page 2 o	f 16
	Test Requirement					Conclusion	
	European Regulatio	n POPs (E	EU) 2020/784 amending to F	Regulation (E	EU)		
	2019/1021 Annex I	- Perfluord	octanoic acid (PFOA) and it	s salts, PFC	A-	Pass	

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0219181-0001.C001	White material with black printing
SN2	A2	CAN24-0219181-0001.C002	White material with gray surface

Remarks:

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

Draft regulations to European Regulation POPs (EU) 2019/1021 Annex I and its amendments

Test Method: SGS In-House method, analysis was performed by GC-MS.

Related Substances, Perfluorooctane sulfonic acid (PFOS) and its derivatives

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
UV-328	25973-55-1	1	mg/kg	1	ND	ND
Dechlorane Plus(DP)	13560-89-9 /135821-03-3 /135821-74-8	1	mg/kg	1	ND	ND
Conclusion					Pass	Pass

Notes:

(1) Proposed effective date of UV 328, Dechlorane Plus is February 26, 2025.

European Regulation POPs (EU) 2024/2570 amending to Regulation (EU) 2019/1021 Annex I– Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)

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

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
Hexabromocyclododecane (HBCDD) and its main diastereoisomers (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	75	mg/kg	20	ND	ND
Conclusion					Pass	Pass

Notes:

(1) The exemptions laid down shall be reviewed and assessed by the Commission by 1 January 2026.

European Regulation POPs (EU) 2019/1021 Annex I– Alkanes C₁₀-C₁₃, chloro (short chain-chlorinated paraffins) (SCCPs)



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Test Method: With reference to ISO 22818:2021, analysis was performed by GC-NCI-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
Alkanes,C ₁₀ -C ₁₃ , chloro (short chain-chlorinated paraffins) (SCCPs)	85535-84-8 and others	1500	mg/kg	50	ND	ND
Conclusion					Pass	Pass

European Regulation POPs (EU) 2021/277 amending to Regulation (EU) 2019/1021 Annex I– Pentachlorophenol (PCP) and its salts and esters

Test Method: With reference to EN 17134-2:2023, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
Pentachlorophenol (PCP) and its salts and esters	87-86-5 and others	5	mg/kg	0.5	ND	ND
Conclusion					Pass	Pass

European Regulation POPs (EU) 2019/1021 Annex I-Halogenated compounds

Test Method: SGS In-House method, analysis was performed by GC-ECD or GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
Hexachlorobutadiene	87-68-3	Prohibit ed	mg/kg	5	ND	ND
Pentachlorobenzene	608-93-5	Prohibit ed	mg/kg	5	ND	ND
Hexachlorobenzene	118-74-1	10	mg/kg	5	ND	ND
Polychlorinated biphenyls (PCBs)	1336-36-3 and others	50	mg/kg	5	ND	ND
Polychlorinated naphthalenes (PCNs)	70776-03-3 and others	Prohibit ed	mg/kg	5	ND	ND
Hexabromodiphenyl	36355-01-8	Prohibit ed	mg/kg	5	ND	ND
Tetrabromodiphenyl ether	-	-	mg/kg	5	ND	ND
Pentabromodiphenyl ether	-	-	mg/kg	5	ND	ND
Hexabromodiphenyl ether	-	-	mg/kg	5	ND	ND
Heptabromodiphenyl ether	-	-	mg/kg	5	ND	ND
Decabromodiphenyl ether; (decaBDE)	1163-19-5	-	mg/kg	5	ND	ND
Sum of PBDEs*	-	500	mg/kg	-	ND	ND
Conclusion		Pass	Pass			

Notes:

(1) Sum of PBDEs* Means Sum of Tetrabromodiphenyl ether, Pentabromodiphenyl ether,

Hexabromodiphenyl ether, Heptabromodiphenyl ether and Decabromodiphenyl ether.

(2) Exemptions: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether,

heptabromodiphenyl ether and decabromodiphenyl ether are \leq 10 mg/kg for substances, and Sum of tetra-, penta-, hexa-, hepta- and decaBDE \leq 500 mg/kg for mixtures or articles, this restriction is subject to subject



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to review and assessment by the European by 16 July 2021.

(3) Exemption: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether in electrical and electronic equipment within the scope of Directive 2011/65/EU are exempted.

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

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.

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
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	Pass

Notes:



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(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: <u>https://echa.europa.eu/list-of-substances-proposed-as-pops</u>
- (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	55120-77-9
(1:1) (PFHxS-Li)	
Ammonium perfluorohexane-1-sulphonate (PFHxS-NH ₄)	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 ₄ H ₉) ₄)	108427-54-9
N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₂ H 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 ₄ H ₉)	1187817-57-7
Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1- naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 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 ₁₀ H ₁₄) ₃ C ₅ H ₄)	1310480-24-0
Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1- naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS- (NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂)	1310480-27-3
Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1- naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS- (NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂)	1310480-28-4
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonic acid ion(1-)(1:1) (PFHxS-C ₄₂ H ₇₀ O ₃₅)	1329995-45-0
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonic acid ion(1-)(1:1)(PFHxS-C ₄₈ H ₈₀ O ₄₀)	1329995-69-8



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		,3,3,4,4,5,5,6,6,6-trideca	fluoro-1-		144116-10-9	
nexanesulfonate (
1,2,3,3a,4,8b-hex	ahydrocycl	ıyl)-4-[2-[4-[4-(2,2-dipher opent[b]indol-7-yl]etheny	l]-,	-	1462414-59-0	
C44H37N2O2)		ecafluoro-1-hexanesulfon				
odonium, dipheny (1:1) (PFHxS-I(C ₆		3,3,4,4,5,5,6,6,6-tridecaf	luoro-1-hexanes	sulfonate	153443-35-7	
		ethyl-, salt with 1,1,2,2,3, ic acid (1:1) (PFHxS-TM			189274-31-5	
1-Hexanesulfonic	acid, 1,1,2	,2,3,3,4,4,5,5,6,6,6-trideo PFHxS-NH ₂ (CH ₃) ₃)		d.with 2-	202189-84-2	
odonium, bis[4-(1	,1-dimethy	lethyl)phenyl]-, 1,1,2,2,3 ate (1:1)(PFHxS-I(C ₆ H ₄):			213740-81-9	
		,2,3,3,4,4,5,5,6,6,6-trideo		n salt	341035-71-0	
Sulfonium, bis(4-r		yl)phenyl-, 1,1,2,2,3,3,4, lxS-S(C7H7)2C6H5)	4,5,5,6,6,6-tride	cafluoro-	341548-85-4	
	acid, 1,1,2	,2,3,3,4,4,5,5,6,6,6,6-trideo	cafluoro-, scand	ium(3+)	350836-93-0	
	acid, 1,1,2	,2,3,3,4,4,5,5,6,6,6-trideo HxS-Nd)	cafluoro-,		41184-65-0	
		,2,3,3,4,4,5,5,6,6,6-trideo	cafluoro-, yttrium	n(3+) salt	41242-12-0	
Sulfonium, (thiodi		ene)bis[diphenyl-, salt w cafluoro-1-hexanesulfon		HxS-	421555-73-9	
odonium, bis[4-(1		lpropyl)phenyl]-, salt with cafluoro-1-hexanesulfon			421555-74-0	
Perflurohexane su	ulphonvl flu	oride(PFHxS-F)			423-50-7	
Sulfonium, tris[4-(1,1-dimeth	ylethyl)phenyl]-, 1,1,2,2,3 ate (1:1)(PFHxS-S(C ₆ H ₄		-	425670-70-8	
I-Hexanesulfonic PFHxS-Zn)	acid, 1,1,2	,2,3,3,4,4,5,5,6,6,6-trideo	cafluoro-, zinc sa	alt	70136-72-0	
Tridecafluorohexa 1:1)(PFHxS-NH(0		ic acid, compound with 2	,2'-iminodiethar	ol	70225-16-0	
I-Hexanesulfonic N,N-diethylethana	acid, 1,1,2 mine (1:1)	,2,3,3,4,4,5,5,6,6,6-trideo (PFHxS-N(C ₂ H ₅) ₃)	-		72033-41-1	
ridecafluoro-1-he	xanesulfon	thyl)phenyl]-, salt with 1, ic acid (1:1) (9CI) (PFHx	S-I(C ₆ H ₄) ₂ (C ₄ H ₉)2)	866621-50-3	
I-hexanesulfonate	e (1:1)(PF	diphenyl-, 1,1,2,2,3,3,4,4 HxS-S(C₀H₅)₂C7H7)		afluoro-	910606-39-2	
		<pre>ko-2-propen-1-yl)oxy]phe ecafluoro-1-hexanesulfor</pre>		xS-	911027-68-4	
I-Hexanesulfonic 1:1) (PFHxS-Cs)	(PFHxS-C	,2,3,3,4,4,5,5,6,6,6-trideo s)			92011-17-1	
Dibenzo[k,n][1,4,7 dimethylethyl)phe	7,10,13]tetr nyl]-6,7,9,1	aoxathiacyclopentadecin 0,12,13-hexahydro-, 1,1	,2,2,3,3,4,4,5,5,	6,6,6-	928049-42-7	
		ate (1:1) (PFHxS-SC ₂₈ H: erwise agreed in writing, this document is is	/	ct to its General C	onditions of Service printed	overleaf.



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Perfluorohexylsulf	onyl chlorid	le (PFHxS-CI)			55591-23-6	
1,1,2,2,3,3,4,4,5,5 with 2-ethyltricyclo hydroxytricyclo[3.3	,6,6,6-tride [3.3.1.13,7 3.1.13,7]de	o-2-propenyl)oxy]phenyl]dip cafluoro-1-hexanesulfonic a]dec-2-yl 2-methyl-2-proper c-1-yl 2-methyl-2-propenoat penoate (PFHxS-Sulfonium)	icid (1:1), po loate, 3- e and tetral	olymer hydro-2-	911027-69-5	
Perfluorohexane s	ulfonate (a	nion)			108427-53-8	
Tetrabutylphospho	onium perflu	uorohexane sulfonate (PFH	xS-P (C ₄ H ₉))4))	2310194-12-6	
EtFHxSAA, its sa	lts					
Glycine, N-ethyl-N (EtFHxSAA)	-[(1,1,2,2,3	,3,4,4,5,5,6,6,6-tridecafluor	ohexyl)sulfo	onyl]	68957-32-4	
Potassium N-ethy	-n-[(trideca	fluorohexyl)sulfonyl]glycina	te (EtFHxS/	AA-K)	67584-53-6	
Sodium N-ethyl-N	-((tridecaflu	orohexyl)sulphonyl)glycinat	e (EtFHxSA	AA-Na)	68555-70-4	

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

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

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.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
PFOS, its salts and related con	mpounds					
Perfluorooctane sulfonic acid (PFOS), its salts^	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), its salts^	754-91-6	-	mg/kg	0.010	ND	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^	2806-24-8	-	mg/kg	0.010	ND	ND
N-Methylperfluoro-1- octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^	2355-31-9	-	mg/kg	0.010	ND	ND



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•	ANEC24021918		Date:	Oct 23, 20		Page 8	
Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N- EtFOSAA), its salts^	2991-50-6	-	mg/kg	0.010	ND	ND	
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	-	1000	mg/kg	-	ND	ND	
PFOA, its salts					L	1	
Perfluorooctanoic acid (PFOA), its salts^	335-67-1	0.025	mg/kg	0.010	ND	ND	
PFOA-related compounds							
1H,1H,2H,2H- Perfluorodecanesulfonic acid (8:2 FTS), its salts^	39108-34-4	1	mg/kg	0.010	ND	ND	
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	1	mg/kg	0.200	ND	ND	
Ethyl perfluorooctanoate (Et- PFOA)	3108-24-5	1	mg/kg	0.200	ND	ND	
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	1	mg/kg	0.100	ND	ND	
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	mg/kg	0.100	ND	ND	
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- perfluorodecane (8:2 FTI)	2043-53-0	1	mg/kg	0.100	ND	ND	
1H,1H,2H,2H- Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	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	



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st Report No.: 0	CANEC24021918	101	Date:	Oct 23, 20	24	Page 9 of
Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
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 ₄)	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 ₂ H 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	
$(PFOS-N(C_{10}H_{21})_2(CH_3)_2)$	
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C4H9)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-	71463-74-6
heptadecafluorooctanesulfonate	
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-	56773-56-9
sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	
N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-	124472-68-0
sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	
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	
1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P	2185049-59-4
(C ₄ H ₉) ₄))	
Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7



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heptyldimethyl{	2-[(2-methylprop-2-enoyl)ox	y]ethyl}azanium	1203998-97-
heptadecafluor	poctane-1-sulfonate (PFÓS	-C ₁₅ H ₃₀ NO ₂)	
	e sulfonic anhydride (PFOS)		423-92-7
FOSAA, its sa	ts		
Perfluorooctan	e sulfonamidoacetic Acid (F	OSAA)	2806-24-8
N-[(Perfluorood	tyl)sulfonyl]glycinate (FOSA	A(anion))	909405-47-6
N-[(Perfluorood	tyl)sulfonyl]glycine potassiu	m salt (1:1) (FOSAA-K)	75260-69-4
N-[(Perfluorood	tyl)sulfonyl]glycine sodium	salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, i	ts salts		
N-Methylperflue	pro-1-octanesulfonamidoace	etic Acid (N-MeFOSAA)	2355-31-9
	fluorooctanesulfonamido)ac	etate (N-Me-	909405-48-7
FOSAA(anion))			
Potassium N-(((N-Me-FOSAA-	heptadecafluorooctyl)sulpho K)	onyl)-N-methylglycinate	70281-93-5
N-EtFOSAA, it	s salts		
	ooctane sulfonamidoacetic		2991-50-6
Glycine, N-ethy (N-Et-FOSAA-ł	l-N-[(heptadecafluorooctyl)s ()	sulfonyl]-, potassium salt	2991-51-7
	uorooctanesulfonamido)ace	etate (N-Et-	909405-49-8
	N-ethylperfluorooctanesulfor	namido)acetate (N-Et-	2991-52-8
FOSAA-NH ₄)	 emplementer de la les anos 		2001 02 0
	hylperfluorooctanesulfonam	vido)acetate (N-Et-	3871-50-9
FOSAA-Na)	nyipeindorocolaricoarionari		0071000
PFOSA, its sa	ts		
	e Sulfonamide (PFOSA)		754-91-6
	esulfonamide lithium salt (1:	1) (PFOSA-Li)	76752-79-9
	esulfonamide Sodium salt (1		76752-78-8
	sulfonamide Potassium sal		76752-70-0
	esulfonamide Ammonium sa		76752-72-2
	ooctane-1-sulphonamide, c		76752-82-4
	:1) (PFOSA-C ₆ H ₁₅ N)		
PFOA, its salts	s & derivatives		
Perfluorooctan	bic acid (PFOA)		335-67-1
Sodium perfluo	rooctanoate (PFOA-Na)		335-95-5
Potassium perf	luorooctanoate (PFOA-K)		2395-00-8
	octanote (PFOA-Ag)		335-93-3
Perfluorooctan	oyl fluoride (PFOA-F)		335-66-0
Ammonium per	ntadecafluorooctanoate (AP	FO)	3825-26-1
Lithium perfluo	ooctanoate (PFOA-Li)		17125-58-5
Cobalt perfluor	poctanoate (PFOA-Co)		35965-01-6
	rooctanoate (PFOA-Cs)		17125-60-9
	2,2,3,3,4,4,5,5,6,6,7,7,8,8,8	-pentadecafluoro-,	68141-02-6
chromium(3+)			
	ooctanoic acidpiperazine ((2/1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
	ooctanoate (anion)		45285-51-6
Perfluorooctan	bic Anhydride		33496-48-9
N,N,N-Triethyle	thanaminium perfluoroocta	noate	98241-25-9
	pate N,N,N-Trimethylmethar		32609-65-7

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Т

Tetrapropylammonium perfluorooctanoate	277749	-00-5
Potassium pentadecafluorooctanoatewater (1/1/ K(H ₂ O) ₂)	2) (PFOA- 98065-3	81-7
Perfluorooctanoic acid compd. with ethanamine (6-03-6
Pentadecafluorooctanoic acidpyridine (1/1) (PFC	DA-C₅H₅N) 95658-4	7-2
pentadecafluorooctanoic acid- 1-phenylpiperazine C10H14N2)	e(1:1) (PFOA- 1514-68	8-7
N,N,N-Trimethyloctan-1-aminium pentadecafluoro $C_{11}H_{26}N$)	ooctanoate (PFOA- 927835	-01-6
8:2 FTS, its salts		
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F		34-4
Potassium 1H,1H,2H,2H-Perfluorodencane sulfor	nate (8:2 FTS-K) 438237	-73-1
Ammonium 1H,1H,2H,2H-Perfluorodencane sulfo NH ₄)	nate (8:2 FTS- 149724	40-3
Sodium 1H,1H,2H,2H-Perfluorodencane sulfonate	e (8:2 FTS-Na) 27619-9	96-1
2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(ani		
8:2 FTCA, its salts		
2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-3	31-5
Tetrabutylphosphonium 2H,2H-Perfluorodecanoa $P(C_4H_9)_4)$	te (8:2 FTCA- 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-heptadec hydrogen phosphate (8:2diPAP)	afluorodecyl) 678-41-	1
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phospha	ate (8:2diPAP-Na) 114519	-85-6
Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl phosphate	ethyl) hydrogen 57677-9	97-1
Bis[2-(perfluorooctyl)ethyl] phosphate ammonium NH ₄)	salt (8:2 diPAP- 93776-2	20-6
8:2 Fluorotelomer phosphate diester ion (1-)	141171	3-91-1
8:3 FTCA, its salts		
2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTC	A) 34598-3	3-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (58-1
2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-L	i) 67304-2	23-8
8:8 PFPi, its salts	•	
8:8 Perfluorophosphinic acid (8:8 PFPi)	40143-7	'9-1
Bis(heptadecafluorooctyl)phosphinic Acid Sodium Na)	Salt (8:8 PFPi- 500776	-69-2
Bis(perfluorooctyl) phosphinic acid erbium(3+) sal	t (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 mor	noPAP) 57678-0)3-2
8:2 Fluorotelomer diammonium phosphate	93857-4	4-4
Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237	-75-3
Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	9 1764-95	5-0
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol pho salt		4-0
Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965	-22-0
Monopotassium monoperfluorohexyl ethylphosph	ate 150033	-28-6
Ammonium 2-(perfluorohexyl)ethyl hydrogen pho		

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Test ReportNo.:CANEC24021918101Date:Oct 23, 2024(2) 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

No.: CANEC24021918101

Date: Oct 23, 2024

HBCDD Testing Flow Chart





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Test Report ATTACHMENTS

No.: CANEC24021918101

Date: Oct 23, 2024

Chlorinated Paraffin Testing Flow Chart





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PFASs/ PFOS/PFOA Testing Flow Chart





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