SHAEC26027481010 2026 09 11 1 14

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TMBS

SGS SHP26-034211

2026 09 07

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POPs (EU) 2019/1021 I	

盛雯婷

Sue Sheng

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:

		SGS ID	
SN1	A2	SHA26-0274810-0001.C002	

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL=
(3) ND = (< MDL)
(4) "-" =

POPs (EU) 2019/1021 I

SGS - GC-MS GC-MS/MS GC-NCI-MS GC-ECD HPLC-DAD-MS LC-MS/MS

	CAS No.			MDL	A2
(TetraBDE)	40088-47-9	-	mg/kg	5	ND
(PentaBDE)	32534-81-9	-	mg/kg	5	ND
(HexaBDE)	36483-60-0	-	mg/kg	5	ND
(HeptaBDE)	68928-80-3	-	mg/kg	5	ND
(DecaBDE)	1163-19-5	-	mg/kg	5	ND
*	-	10	mg/kg	-	ND
(PFOS), ^	1763-23-1	0.025	mg/kg	0.010	ND
N- (N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND
N- (N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND
2-(N-) (N-EtFOSE)	1691-99-2	-	mg/kg	0.010	ND
2-(N-) (N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND
(PFOSA), ^	754-91-6	-	mg/kg	0.010	ND
N-(-1-) (FOSAA), ^	2806-24-8	-	mg/kg	0.010	ND
N- -N-(-1-) (N-MeFOSAA), ^	2355-31-9	-	mg/kg	0.010	ND
N- -N-(-1-) (N-EtFOSAA), ^	2991-50-6	-	mg/kg	0.010	ND
2-(N-) (EtFOSAC)	423-82-5	-	mg/kg	0.200	ND
PFOS	-	1	mg/kg	-	ND

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	CAS No.			MDL	A2
4,4-	50-29-3		mg/kg	0.05	ND
	57-74-9		mg/kg	0.05	ND
,	58-89-9, 319-84-6, 319-85-7, 608-73-1		mg/kg	0.05	ND
	60-57-1		mg/kg	0.05	ND
	72-20-8		mg/kg	0.05	ND
	76-44-8		mg/kg	0.05	ND
	115-29-7, 959-98-8, 33213-65-9		mg/kg	0.05	ND
	118-74-1	10	mg/kg	5	ND
	143-50-0		mg/kg	0.2	ND
	309-00-2		mg/kg	0.05	ND
	608-93-5		mg/kg	5	ND
(PCBs)	1336-36-3		mg/kg	0.2	ND
	2385-85-5		mg/kg	0.05	ND
	8001-35-2		mg/kg	0.2	ND
	36355-01-8		mg/kg	5	ND
(HBCDD) (α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-55-6	75	mg/kg	20	ND
	87-68-3		mg/kg	5	ND
(PCP)	87-86-5	5	mg/kg	0.5	ND
(PCNs)	70776-03-3		mg/kg	5	ND
C_{10}-C_{13} ( )(SCCPs)	85535-84-8	1500	mg/kg	50	ND
(PFOA), ^	335-67-1	0.025	mg/kg	0.010	ND
1H,1H,2H,2H- (8:2 FTS), ^	39108-34-4	1	mg/kg	0.010	ND
(Me-PFOA)	376-27-2	1	mg/kg	0.200	ND
(Et-PFOA)	3108-24-5	1	mg/kg	0.200	ND
1H,1H,2H,2H- (8:2 FTA)	27905-45-9	1	mg/kg	0.100	ND
1H,1H,2H,2H- (8:2 FTMA)	1996-88-9	1	mg/kg	0.100	ND
(PFOI)	507-63-1	1	mg/kg	0.200	ND
2H, 2H- (8:2 FTCA), ^	27854-31-5	1	mg/kg	0.010	ND
1H,1H,2H,2H- -1- (8:2 FTOH)	678-39-7	1	mg/kg	0.100	ND
1- -1H,1H,2H,2H- (8:2 FTI)	2043-53-0	1	mg/kg	0.100	ND

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	CAS No.			MDL	A2
1H,1H,2H,2H- (8:2 FTSi(OC_2H_5)$_3$)	101947-16-4	1	mg/kg	0.100	ND
[2-( )] (8:2diPAP), ^	678-41-1	1	mg/kg	0.010	ND
2H, 2H, 3H, 3H- (8:3 FTCA), ^	34598-33-9	1	mg/kg	0.010	ND
(PFDE)	21652-58-4	1	mg/kg	0.100	ND
3- (7:3 FTCA)	812-70-4	1	mg/kg	0.010	ND
1H,1H,2H,2H- (8:2 FTSiCl_3)/ 1H,1H,2H,2H- (8:2 FTSi(OCH_3)$_3$)	78560-44-8 /83048-65-1	1	mg/kg	0.100	ND
2H- -2- (8:2 FTUCA)	70887-84-2	1	mg/kg	0.010	ND
6:8 (6:8 PFPi)	610800-34-5	1	mg/kg	0.010	ND
8:8 (8:8 PFPi), ^	40143-79-1	1	mg/kg	0.010	ND
1H,1H,2H,2H- (8:2 FTOAc)	37858-04-1	1	mg/kg	0.100	ND
[2-( )] (8:2 monoPAP), ^	57678-03-2	1	mg/kg	0.100	ND
1H,1H,2H,2H- -1- (10:2 FTOH)	865-86-1	1	mg/kg	0.100	ND
1,1,2,2- -1- (12:2 FTOH)	39239-77-5	1	mg/kg	0.100	ND
1H,1H,2H,2H- (10:2 FTS), ^	120226-60-0	1	mg/kg	0.100	ND
[2-( )] (10:2 diPAP), ^	1895-26-7	1	mg/kg	0.100	ND
2H- -2- (10:2 FTUCA)	70887-94-4	1	mg/kg	0.010	ND
2- (10:2 FTCA)	53826-13-4	1	mg/kg	0.010	ND
[2-( )] (10:2 monoPAP), ^	57678-05-4	1	mg/kg	0.100	ND
1H,1H,2H,2H- (10:2 FTA)	17741-60-5	1	mg/kg	0.100	ND
1H,1H,2H,2H- (10:2 FTMA)	2144-54-9	1	mg/kg	0.100	ND
(10:2 FTI)	2043-54-1	1	mg/kg	0.100	ND
1H,1H,2H,2H- (12:2 FTI)	30046-31-2	1	mg/kg	0.100	ND
1- (PFDI)	423-62-1	1	mg/kg	0.100	ND
(PFDoDI)	307-60-8	1	mg/kg	0.100	ND
PFOA	-	1	mg/kg	-	ND
	115-32-2		mg/kg	0.05	ND
(PFHxS) ^	355-46-4	0.025	mg/kg	0.010	ND
N- -1- (N-Me-PFHxSA)	68259-15-4	1	mg/kg	0.010	ND
(PFHxSA)	41997-13-1	1	mg/kg	0.010	ND

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	CAS No.			MDL	A2
N-[3-( )] (N-AP-FHxSA)	50598-28-2	1	mg/kg	0.010	ND
2-[[( )]] (N-MeFHSEA)	67584-57-0	1	mg/kg	0.200	ND
2-[[( )]]	67584-61-6	1	mg/kg	0.200	ND
2-[[( )]]	67906-70-1	1	mg/kg	0.200	ND
-N- (2-)-N- (MeFHxSE)	68555-75-9	1	mg/kg	0.010	ND
N- -N-[( )] (EtFHxSAA), ^	68957-32-4	1	mg/kg	0.010	ND
PFHxS	-	1	mg/kg	-	ND
	72-43-5	0.01	mg/kg	0.01	ND
UV-328	25973-55-1	100	mg/kg	1	ND
(DP)	13560-89-9 /135821-03-3 /135821-74-8	1000	mg/kg	1	ND

(1) POPs (EU) 2019/1021 I

(2) *

(3) RoHS (2011/65/EU) POPs

(4) POPs (EU) 2019/1021 I (EU) 2025/1482 TUV

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≤ 500 mg/kg ( )	2025.11.17
≤ 350 mg/kg ( )	2025.12.30
≤ 10 mg/kg ( )	2027.5.17

[1] (EC) No 1935/2004

[2]2009/48/EC

(5) C10-13 ( ) 1.0% (w/w), 0.15% (w/w)

(6) HBCDD 75mg/kg 2026 1 1

(7) POPs (EU) 2019/1021 I (EU) 2025/718 (PFOS) 0.025 mg/kg(0,0000025 %) PFOS 1 mg/kg(0,0001%) 2025 12 3

(8) ^= PFOS PFOA PFOA /

	CAS No.
PFOS, &	
(PFOS)	1763-23-1
(PFOS-K)	2795-39-3
(PFOS-Li)	29457-72-5
(PFOS-Na)	4021-47-0
(PFOS-NH_4)	29081-56-9
(PFOS-$NH_2(C_2H_4OH)_2$)	70225-14-8
(PFOS-$N(C_2H_5)_4$)	56773-42-3
(PFOS-$N(C_{10}H_{21})_2(CH_3)_2$)	251099-16-8
(PFOS-$N(C_4H_9)_4$)	111873-33-7
(PFOS-F)	307-35-7
[ ] (PFOS-Mg)	91036-71-4
	71463-74-6
	45298-90-6
(PFOS-$NH(C_2H_5)_3$)	54439-46-2
(PFOS-$N(CH_3)_4$)	56773-44-5
N, N,N- -1- -1- (PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9
N,N- -N- -1- -1- (PFOS-$N(C_4H_9)_3(CH_3)$)	124472-68-0
[4-(1,1-)]- -1- (1:1)	213740-80-8

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-1- (2,4,6-)	258341-99-0
-1- 1-	334529-63-4
N,N,N- -1- -1-	773895-92-4
(PFOS-P (C_4H_9)$_4$))	2185049-59-4
(PFOS-$C_4H_{11}N$)	2205029-08-7
-[2-(2- -2-)] (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
(PFOSAN)	423-92-7
(PFOS-Cl)	423-60-9
FOSAA,	
N-(-1-) (FOSAA)	2806-24-8
(FOSAA(anion))	909405-47-6
(FOSAA-K)	75260-69-4
(FOSAA-Na)	115716-87-5
N-MeFOSAA,	
N- -N-(-1-) (N-MeFOSAA)	2355-31-9
N-( )-N- (N-Me-FOSAA(anion))	909405-48-7
N-( )-N- (N-Me-FOSAA-K)	70281-93-5
(N- -(N-( ) -O1:O1'))	97298-47-0
N-EtFOSAA,	
N- -N-(-1-) (N-EtFOSAA)	2991-50-6
N- -N-[( )]- (N-Et-FOSAA-K)	2991-51-7
N- -N-(( )) (N-Et-FOSAA(anion))	909405-49-8
N- -N-(( )) (N-Et-FOSAA-NH_4)	2991-52-8
N- -N-(( )) (N-Et-FOSAA-Na)	3871-50-9
[μ-[N- -N-[( )] -O1:O1′]]-μ- [2-]	68891-96-3
PFOSA,	
(PFOSA)	754-91-6
(1:1)(PFOSA-Li)	76752-79-9
(1:1) (PFOSA-Na)	76752-78-8
(1:1) (PFOSA-K)	76752-70-0
(1:1) (PFOSA-NH_4)	76752-72-2
(PFOSA-$C_6H_{15}N$)	76752-82-4

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PFOA, &	
(PFOA)	335-67-1
(PFOA-Na)	335-95-5
(PFOA-K)	2395-00-8
(PFOA-Ag)	335-93-3
(PFOA-F)	335-66-0
(APFO)	3825-26-1
(PFOA-Li)	17125-58-5
(PFOA-Co)	35965-01-6
(PFOA-Cs)	17125-60-9
(3+) (PFOA-Cr(3+))	68141-02-6
- (2:1) (PFOA-NH($C_4H_{10}N$))	423-52-9
	45285-51-6
	33496-48-9
	98241-25-9
	32609-65-7
	277749-00-5
(PFOA-K(H_2O)$_2$)	98065-31-7
(PFOA-C_2H_7N)	1376936-03-6
(PFOA-C_5H_5N)	95658-47-2
(PFOA-$C_{10}H_{14}N_2$)	1514-68-7
(PFOA-$C_{11}H_{26}N$)	927835-01-6
(PFOA-Cl)	335-64-8
(PFOA-Br)	222037-87-8
8:2 FTS,	
1H,1H,2H,2H- (8:2 FTS)	39108-34-4
1H,1H,2H,2H- (8:2 FTS-K)	438237-73-1
1H,1H,2H,2H- (8:2 FTS-NH_4)	149724-40-3
1H,1H,2H,2H- (8:2 FTS-Na)	27619-96-1
1H,1H,2H,2H- (8:2 FTS(anion))	481071-78-7
1H,1H,2H,2H- (8:2 FTS-Cl)	27619-90-5
8:2 FTCA,	
2H,2H- (8:2 FTCA)	27854-31-5
2H,2H- (8:2 FTCA-P(C_4H_9)$_4$)	882489-14-7
8:2diPAP,	
[2-( )] (8:2diPAP)	678-41-1
[2-( )] (8:2diPAP-Na)	114519-85-6
(2-) ( ))	57677-97-1

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[2-( )] (8:2 diPAP-NH_4)	93776-20-6
8:2	1411713-91-1
8:3 FTCA,	
2H,2H,3H,3H- (8:3 FTCA)	34598-33-9
2H,2H,3H,3H- (8:3 FTCA-K)	83310-58-1
2H,2H,3H,3H- (8:3 FTCA-Li)	67304-23-8
8:8 PFPi,	
8:8 (8:8 PFPi)	40143-79-1
8:8 (8:8 PFPi-Na)	500776-69-2
8:8 (3+) (8:8 PFPi-Er)	500776-70-5
8:8 (3+) (8:8 PFPi-Yb)	500776-71-6
8:2 monoPAP,	
[2-( )] (8:2 monoPAP)	57678-03-2
8:2	93857-44-4
8:2	438237-75-3
[2-( )]	1764-95-0
[2-( )]	92401-44-0
[2-( )]	144965-22-0
[2-( )]	150033-28-6
[2-( )]	2353-52-8
10:2 FTS,	
1H,1H,2H,2H- (10:2 FTS)	120226-60-0
1H,1H,2H,2H- (10:2 FTS-Na)	108026-35-3
1H,1H,2H,2H- (10:2 FTS-Cl)	27619-91-6
10:2 diPAP,	
[2-( )] (10:2 diPAP)	1895-26-7
2,2'- [2-( )] (10:2 diPAP-$C_4H_{11}O_2$)	57677-98-2
10:2 monoPAP,	
[2-( )] (10:2 monoPAP)	57678-05-4
[2-( )]	93857-45-5
	2514858-66-1

(9) (PFHxS)

(a). 2023 8 8 (EU)2023/1608 2023 5 30 EU)2019/1021 I PFHxS) PFHxS

PFHxS		≤ 0.025 mg/kg

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PFHxS		≤ 1 mg/kg (PFHxS)
PFHxS PFHxS		≤ 0.1 mg/kg (3)

(b). (PFHxS) PFHxS “ ”

List of substances proposed as POPs - ECHA (europa.eu)

(c). ^= PFHxS /

	CAS No.
PFHxS, &	
(PFHxS)	355-46-4
(PFHxS-Na)	82382-12-5
(PFHxS-K)	3871-99-6
(1:1)(PFHxS-Li)	55120-77-9
(PFHxS-NH_4)	68259-08-5
( )- (PFHxS-BTPP)	1000597-52-3
N,N,N- -1- (PFHxS-N(C_4H_9)$_4$)	108427-54-9
N, N,N- (PFHxS-N(C_2H_5)$_4$)	108427-55-0
(PFHxS-NC_4H_9)	1187817-57-7
-1- -N-[4-[[4-( )][4-( )-1-]]-2,5- -1-]-N- - (PFHxS-($NC_{10}H_{14}$)$_3C_5H_4$)	1310480-24-0
-1- -N-[4-[[4-( )][4-( )-1-]]-2,5- -1-]-N- - (PFHxS-(NC_8H_{10})$_2C_{13}H_{12}$)	1310480-27-3
-1- -N-[4-[[4-( )][4-( )-1-]]-2,5- -1-]-N- - (PFHxS-(NC_8H_{10})$_2C_{17}H_{12}$)	1310480-28-4
β- (PFHxS-$C_{42}H_{70}O_{35}$)	1329995-45-0
γ- (PFHxS-$C_{48}H_{80}O_{40}$)	1329995-69-8
(TPS-PFHxS)	144116-10-9

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[4-(1,1-)] (PFHxS-I(C_6H_4)$_2$(C_4H_9)$_2$)	213740-81-9
(9Cl)(PFHxS-Ga)	341035-71-0
(4-) (1:1)(PFHxS-S(C_7H_7)$_2$$C_6H_5$)	341548-85-4
(PFHxS-Sc)	350836-93-0
(PFHxS-Nd)	41184-65-0
(PFHxS-Y)	41242-12-0
(-4,1-) [ ] (PFHxS-S$_3$(C_6H_5)$_4$(C_6H_4)$_2$)	421555-73-9
[4-(1,1-)] (PFHxS-I(C_6H_4)$_2$(C_5H_{11})$_2$)	421555-74-0
(PFHxS-F)	423-50-7
[4-(1,1-)] (PFHxS-S(C_6H_4)$_3$(C_4H_9)$_3$)	425670-70-8
(PFHxS-Zn)	70136-72-0
2,2'- (PFHxS-NH(C_2H_5O)$_2$)	70225-16-0
(1:1)(PFHxS-N(C_2H_5)$_3$)	72033-41-1
[(1,1-)] (PFHxS-I(C_6H_4)$_2$(C_4H_9)$_2$)	866621-50-3
(4-) (PFHxS-S(C_6H_5)$_2$$C_7H_7$)	910606-39-2
[4-[(2- -1- -2-)]] (PFHxS-S(C_6H_5)$_2$$C_{10}H_9O_2$)	911027-68-4
(1:1)(PFHxS-Cs)	92011-17-1
[k,n][1,4,7,13] ,19-[4-(1,1-)]-6,7,9,10,12,13- -, (PFHxS-S$C_{28}H_{31}O_4$)	928049-42-7
(PFHxS-Cl)	55591-23-6
PFHxS-	911027-69-5
	108427-53-8
(PFHxS-P(C_4H_9)$_4$))	2310194-12-6
EtFHxSAA	
N- -N-[( )] (EtFHxSAA)	68957-32-4
N- -N-[( )] (EtFHxSAA-K)	67584-53-6
N- -N-(( )) (EtFHxSAA-Na)	68555-70-4

(10) ^^ / PFAS

	CAS No.
N-EtFOSE,	
2- (N-) (N-EtFOSE)	1691-99-2

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(DP)		≤ 1 mg/kg	2028.4.15

(15) POPs

(16)

ILAC-G8:09/2019 *w*=0

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SHA26-0274810-0001.C002

SGS

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