

Test Report

No.: SHAEC23011468004

Date: Aug 10, 2023

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Client Name: TMC Industries Inc

Client Address: 1423 Mill Lane Waconia, Minnesota 55387-1044 USA

Sample Name: TMC-49

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

SGS Job No.: SP23-011920

Sample Receiving Date: Jul 31, 2023

Testing Period: Jul 31, 2023 ~ Aug 04, 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	Pass

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

Sue Sheng
 Approved Signatory



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA23-0114680-0001.C001	Colorless transparent liquid

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.	Limit	Unit(s)	MDL	A1
PFOS, its salts and related compounds					
Perfluorooctane sulfonates (PFOS) ^{Note (1)}	1763-23-1	Prohibited	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	Prohibited	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	Prohibited	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	Prohibited	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	Prohibited	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	Prohibited	mg/kg	0.010	ND
PFOA, its salts					
Perfluorooctanoic acid (PFOA) ^{Note (2)}	335-67-1	Prohibited	mg/kg	0.010	ND
PFOA-related compounds					
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) ^{Note (3)}	39108-34-4	Prohibited	mg/kg	0.010	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	Prohibited	mg/kg	0.1	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^{Note (3)}	27905-45-9	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^{Note (3)}	1996-88-9	Prohibited	mg/kg	0.1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	Prohibited	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) ^{Note (3), Note (11)}	27854-31-5	Prohibited	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
1H,1H,2H,2H-Perfluoro-1-decanol (8:2FTOH) ^{Note (3)}	678-39-7	Prohibited	mg/kg	0.1	ND
Sum of PFOA-related compounds	-	Prohibited	mg/kg	-	ND
C9-C14 PFCA, their salts					
Perfluorononane Acid (PFNA) ^{Note (4)}	375-95-1	Prohibited	mg/kg	0.010	ND
Perfluorodecane Acid (PFDA) ^{Note (4)}	335-76-2	Prohibited	mg/kg	0.010	ND
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	Prohibited	mg/kg	0.010	ND
Perfluorododecanoic Acid (PFDoDA) ^{Note (4)}	307-55-1	Prohibited	mg/kg	0.010	ND
Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8	Prohibited	mg/kg	0.010	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	Prohibited	mg/kg	0.010	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	Prohibited	mg/kg	0.010	ND
Sum of C9-C14 PFCA, their salts	-	Prohibited	mg/kg	-	ND
C9-C14 PFCA-related substances					
Perfluorodecane Sulfonate (PFDS) ^{Note (10)}	335-77-3	Prohibited	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	Prohibited	mg/kg	0.1	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	Prohibited	mg/kg	0.1	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (H4PFUnDA/ 8:3 FTCA)	34598-33-9	Prohibited	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	Prohibited	mg/kg	0.010	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) ^{Note (3)}	39108-34-4	Prohibited	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorododecyl acrylate (8:2 FTA) ^{Note (3)}	27905-45-9	Prohibited	mg/kg	0.1	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^{Note (3)}	1996-88-9	Prohibited	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) ^{Note (3), Note (11)}	27854-31-5	Prohibited	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) ^{Note (3)}	678-39-7	Prohibited	mg/kg	0.1	ND
Sum of C9-C14-related substances	-	Prohibited	mg/kg	-	ND
PFHxS, its salts					
Perfluorohexane Sulfonate (PFHxS) ^{Note (7)}	355-46-4	Prohibited	mg/kg	0.010	ND
PFHxS-related compounds					
N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	Prohibited	mg/kg	0.010	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	Prohibited	mg/kg	0.010	ND
Other PFAS					
Perfluorobutane Acid (PFBA)	375-22-4	Prohibited	mg/kg	0.010	ND
Perfluorobutane Sulfonate (PFBS) ^{Note (5)}	375-73-5	Prohibited	mg/kg	0.010	ND
Perfluoropentane Acid (PFPeA)	2706-90-3	Prohibited	mg/kg	0.010	ND
Perfluorohexane Acid (PFHxA) ^{Note (6)}	307-24-4	Prohibited	mg/kg	0.010	ND
Perfluoroheptane Acid (PFHpA)	375-85-9	Prohibited	mg/kg	0.010	ND
Perfluoroheptanesulfonic Acid (PFHpS) ^{Note (8)}	375-92-8	Prohibited	mg/kg	0.010	ND
7H-Dodecanefluoroheptane Acid (7HPFHpA)	1546-95-8	Prohibited	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	Prohibited	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	Prohibited	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	Prohibited	mg/kg	0.1	ND
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) ^{Note (9)}	13252-13-6	Prohibited	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	Prohibited	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	Prohibited	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	Prohibited	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	Prohibited	mg/kg	0.010	ND
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	Prohibited	mg/kg	0.010	ND
Perfluoro nonane sulfonic acid (PFNS)	68259-12-1	Prohibited	mg/kg	0.010	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	Prohibited	mg/kg	0.010	ND
Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5	Prohibited	mg/kg	0.010	ND
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	Prohibited	mg/kg	0.010	ND
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	Prohibited	mg/kg	0.010	ND
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	Prohibited	mg/kg	0.010	ND
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	Prohibited	mg/kg	0.010	ND
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	Prohibited	mg/kg	0.010	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2diPAP)	678-41-1	Prohibited	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	Prohibited	mg/kg	0.1	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	Prohibited	mg/kg	0.010	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	Prohibited	mg/kg	0.010	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	Prohibited	mg/kg	0.010	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	Prohibited	mg/kg	0.010	ND
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	Prohibited	mg/kg	0.010	ND
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	Prohibited	mg/kg	0.010	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	Prohibited	mg/kg	0.010	ND
3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	Prohibited	mg/kg	0.010	ND
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	Prohibited	mg/kg	0.010	ND
Conclusion					Pass

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



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PFOS-NH ₄	CAS No.: 29081-56-9
PFOS-NH(OH) ₂	CAS No.: 70225-14-8
PFOS-N(C ₂ H ₅) ₄	CAS No.: 56773-42-3
PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂	CAS No.: 251099-16-8
POSF	CAS No.: 307-35-7
(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 ₄	CAS No.: 4149-60-4
PFDA refer to its salts including	
PFDA-Na	CAS No. 3830-45-3
PFDA-NH ₄	CAS No: 3108-42-7
PFDoDA refer to its salts including	
PFDoDA-NH ₄	CAS No: 3793-74-6
(5) PFBS refers to its salts including	
PFBS-K	CAS No.: 29420-49-3
PFBS-H ₂ O	CAS No.: 59933-66-3
(6) PFHxA refers to its salt including	
APFHx	CAS No.: 21615-47-4
(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 ₄	CAS No.: 68259-08-5
(8) PFHpS refers to its salts including	
PFHpS-Na	CAS No. 21934-50-9
PFHpS-K	CAS No.: 60270-55-5
(9) HPFO-DA refers to its salts including	
HFPO-DA-NH ₄	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 ₄	CAS No.: 67906-42-7
(11) H ₂ PFDA / 8:2 FTCA refer to its salt/derivative including	
8:2 FTCA-P(C ₄ H ₉) ₄	CAS No.: 882489-14-7

The maximum permissible limit is quoted from the client requirement.

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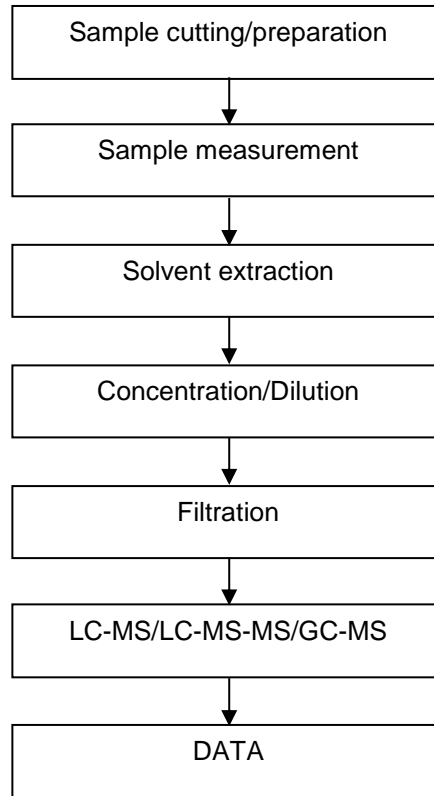
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PFASs/ PFOS/PFOA Testing Flow Chart



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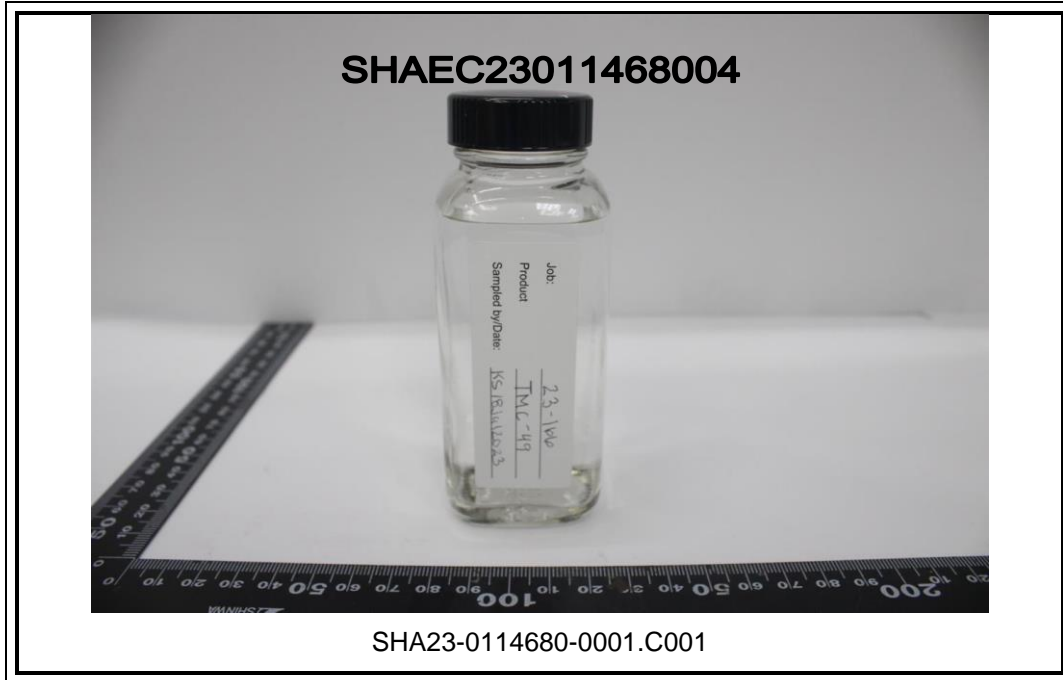
Test Report

No.: SHAEC23011468004

Date: Aug 10, 2023

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Sample Photo:



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