

Test Report

No.: SHAEC23012842501

Date: Aug 21, 2023

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Client Name: Jiangsu JieJie Microelectronics Co.,Ltd.

Client Address: 3000 Qiantangjiang Road, Economic Development Zone, Qidong , Jiangsu , China

Sample Name: TO-220A

Client Ref. Information: See the attachment

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

SGS Job No.: SHP23-010738

Sample Receiving Date: Aug 17, 2023

Testing Period: Aug 17, 2023 ~ Aug 21, 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
European Regulation POPs (EU) 2023/1608 amending to Regulation (EU) 2019/1021-PFHxS, its salts and PFHxS related compounds	Pass

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

Tom Ni

Tom Ni
Approved Signatory

scan to see the report



11C253DA



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA23-0128425-0001.C001	Black solid

Remarks:

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

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

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
PFHxS, its salts					
Perfluorohexanesulfonic acid (PFHxS), its salts#	355-46-4	0.025	mg/kg	0.010	ND
PFHxS-related compounds					
N-Methylperfluoro-1-hexane sulfonamide (N-Me-FHxSA)	68259-15-4	-	mg/kg	0.010	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	-	mg/kg	0.010	ND
N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	-	mg/kg	0.010	ND
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	-	mg/kg	0.500	ND
Sum of PFHxS-related compounds	-	1	mg/kg	-	ND
Conclusion					Pass

Notes:

- (1) Commission Delegated Regulation (EU) 2023/1608 of May 30, 2023, amending Annex I to Regulation (EU) 2019/1021 as regards 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	Effective Date
PFHxS and its salts	Substances, mixtures or articles	≤ 0.025 mg/kg	August 28, 2023
PFHxS-related compounds	Substances, mixtures or articles	≤ 1 mg/kg (sum of all PFHxS-related compounds)	August 28, 2023
PFHxS, its salts and PFHxS-related compounds	Concentrated firefighting foam mixtures	≤ 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)	August 28, 2023

- (2) The tested perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds in this report



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comes from the "Listed under the POPs Regulation" of ECHA, please find more information via below weblink: [List of substances proposed as POPs - ECHA \(europa.eu\)](http://List of substances proposed as POPs - ECHA (europa.eu))

- (3) # Substances refer to its salts/derivative listed in Appendix 1
Salts of listed PFAS is subjected to the detection of its parent PFAS

Appendix 1

PFHxS, its salts & derivatives	CAS No.
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4
1-Hexanesulfonic acid, 1,1,2,2,3,3, 4,4,5,5,6,6,6-tridecafluoro-, sodium salt (PFHxS-Na)	82382-12-5
Potassium perfluorohexane-1-sulphonate (PFHxS-K)	3871-99-6
Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	55120-77-9
Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH ₄)	68259-08-5
Benzyltriphenylphosphonium tridecafluorohexane-1-sulfonate (PFHxS-BTPP)	1000597-52-3
N,N,N-Tributylbutan-1-aminium tridecafluorohexane-1-sulfonate (PFHxS-N(C ₄ H ₉) ₄)	108427-54-9
Tetraethylammonium perfluorohexane sulfonate (PFHxS-N(C ₂ H ₅) ₄)	108427-55-0
Tridecafluorohexane-1-sulfonic acid-pyrrolidine (PFHxS-NC ₄ H ₉)	1187817-57-7
4-[[4-(Diethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-diethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate (PFHxS-(NC ₁₀ H ₁₄) ₃ C ₅ H ₄)	1310480-24-0
4-[[4-(Dimethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate (PFHxS-(NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂)	1310480-27-3
4-[[4-(Dimethylamino)phenyl][4-(phenylamino)naphthalen-1-yl]methylidene]-N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate (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-tridecafluorohexane-1-sulfonate (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-tridecafluorohexane-1-sulfonate (PFHxS-C ₄₈ H ₈₀ O ₄₀)	1329995-69-8
Triphenylsulfanium tridecafluorohexane-1-sulfonate (TPS-PFHxS)	144116-10-9
1-(Carboxymethyl)-4-(2-{4-[4-(2,2-diphenylethenyl)phenyl]-1H,2H,3H,3aH,4H,8bH-cyclopenta[b]indol-7-yl}ethenyl)quinolin-1-ium tridecafluorohexane-1-sulfonate (PFHxS-C ₄₄ H ₃₇ N ₂ O ₂)	1462414-59-0
Diphenyliodonium tridecafluorohexane-1-sulfonate (PFHxS-I(C ₆ H ₅) ₂)	153443-35-7
Tetramethylammonium perfluorohexane sulfonate (PFHxS-TMA)	189274-31-5
Tert-butylazanium;1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate (PFHxS-NH ₂ (CH ₃) ₃)	202189-84-2
Bis(4-tert-butylphenyl)iodonium tridecafluorohexane-1-sulfonate (PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	213740-81-9
Bis(4-methylphenyl)(phenyl)sulfanium tridecafluorohexane-1-sulfonate (PFHxS-S(C ₇ H ₇) ₂ C ₆ H ₅)	341548-85-4
Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with perfluorohexanesulfonic acid (1:2) (PFHxS-S3(C ₆ H ₅) ₄ (C ₆ H ₄) ₂)	421555-73-9
Perfluorohexanesulfonic acid, Gallium(3+) salt (3:1) (PFHxS-Ga)	341035-71-0
Perfluorohexanesulfonic acid, Scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0



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Perfluorohexanesulfonic acid, Neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0
Perfluorohexanesulfonic acid, Yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0
Cesium perfluorohexanesulfonate (PFHxS-Cs)	92011-17-1
Perfluorohexanesulfonic acid, Zinc salt (PFHxS-Zn)	70136-72-0
Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, perfluorohexanesulfonate (1:1) (PFHxS-I(C ₆ H ₄) ₂ (C ₅ H ₁₁) ₂)	421555-74-0
Tris(4-tert-butylphenyl)sulfanium tridecafluorohexane-1-sulfonate (PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃) (PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃)	425670-70-8
Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFHxS-NH(C ₂ H ₅ O) ₂)	70225-16-0
Triethylammonium perfluorohexane sulfonate (PFHxS-N(C ₂ H ₅) ₃)	72033-41-1
Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with perfluorohexanesulfonic acid (1:1) (PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	866621-50-3
(4-Methylphenyl)diphenylsulfanium tridecafluorohexane-1-sulfonate (PFHxS-S(C ₆ H ₅) ₂ C ₇ H ₇)	910606-39-2
{4-[(2-Methylprop-2-enoyl)oxy]phenyl}diphenylsulfanium tridecafluorohexane-1-sulfonate (PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂)	911027-68-4
Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-SC ₂₈ H ₃₁ O ₄)	928049-42-7
Perfluorohexylsulfonyl fluoride (PFHxS-F)	423-50-7
Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6
Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate (PFHxS-Sulfonium, propenoate polymer)	911027-69-5

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.

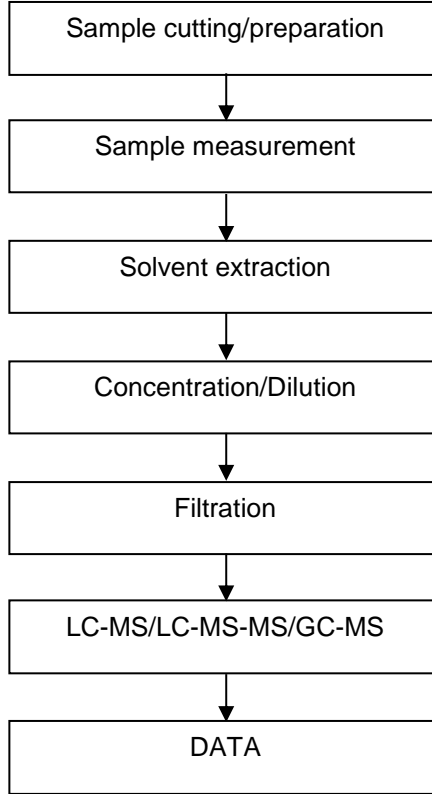


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PFASs/ PFOS/PFOA Testing Flow Chart



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402, 603, 2510, 62mm, ABS, DBS, DFN0603-2L, DFN0603-2L, DFN1006-2L, DFN1006-2L, DFN1006-3L, DFN1006-3L, DFN10x15-5L, DFN10x15-5L-XX, DFN10x15-5L-XX, DFN1610-2L, DFN1610-2L, DFN1610-6L, DFN1610-6L, DFN2010-5L, DFN2010-5L, DFN2010-8L, DFN2010-8L, DFN2020-2L, DFN2020-2L, DFN2020-3L, DFN2020-3L, DFN2020-6L, DFN2020-6L, DFN2020-6L-XX, DFN2020-6L-XX, DFN2020-8L, DFN2510-10L, DFN2510-10L, DFN2626-10L, DFN2626-10L, DFN2x2-3L, DFN2x2-3L, DFN2x2-6L, DFN2x2-6L, DFN2x2-6L-D, DFN2x2-6L-XX, DFN3.0x3.0-8L, DFN3.0x3.0-8L-SD (Type, B) DFN3.3x3.3-8L-XX, DFN3.0x3.0-8L-XX, DFN3.3x3.3-8L, DFN3.3x3.3-8L, DFN3.3x3.3-8L (Type, B) , DFN3.3x3.3-8L-XX, DFN3020-10L, DFN3020-10L, DFN3030-8L, DFN3030-8L, DFN3030-8L-XX, DFN3030-8L-XX, DFN3030-12L, DFN3333-2L, DFN3333-2L, DFN3333-8L, DFN3333-8L, DFN3810-9L, DFN3810-9L, DFN3x3-8L-XX, DFN3x3-8L-XX, DFN4120-10L, DFN5060-8L, DFN5060-8L, DFN5060-8L-XX, DFN5060-8L-XX, DFN5515-18L, DFN5x6-8L, DFN5x6-8L(Dual), DFN5x6-8L-XX, DFN5x6-8L-XX, DFN8080-2L, DFN8080-2L, DFN8080-4L, DFN8080-4L, DFN8x8-2L, DFN8x8-2L, DFN8x8-4L, DFN8x8-4L-XX, DIP-4, DO-15, DO-218AB, DO-27, DO-41, DriveJM-34, DriveJM-62, DriveJM-DC, DriveJM-E1, DriveJM-E2, DriveJM-EC, DriveJM-ED, DriveJM-H1, DriveJM-H2, EasyPack1B, EconoDual, FBP-02C-A, GBJ, GBL, GBU, ITO-247, ITO-247-XX, KBL, KBP, LSOP-4, LSOP-4, MBF, MBS, PDFN3.3x3.3-8L, PDFN3.3x3.3-8L, PDFN3.3x3.3-8L-XX, PDFN3x3-8L, PDFN3x3-8L, PDFN3x3-8L-XX, PDFN3x3-8L-XX, PDFN5x6-8L, PDFN5x6-8L, PDFN5x6-8L-XX, PDFN5x6-8L-XX, PowerJE10x12, PowerJE10x12, PowerJE5x6, PowerJE5x6, PowerJE7x8, PowerJE7x8, PowerJE8x8, PowerJE8x8, PPTC, PPTC, R6, SGBJ, SGD0201, SGD0402, SMA, SMAF, SMB, SMBF, SMC, SMC-3, SMD-3225, SMD-4032, SMT, SMT-4, SMTF, SMTJ, SMTO-218Tab, SOD-123, SOD-123, SOD-123FL, SOD-123FL, SOD-123FLT, SOD-123FLT, SOD-323, SOD-323, SOD-323F, SOD-323FL, SOD-323FL, SOD-523, SOD-523, SOD-723, SOD-723, SOD-923, SOD-923, SOP-10, SOP-10, SOP-16, SOP-16, SOP-4, SOP-4, SOP-5, SOP-5, SOP-7, SOP-7, SOP-8, SOP-8, SOT-143, SOT-143-XX, SOT-143-XX, SOT-223, SOT-223, SOT-223-XX, SOT-223-XX, SOT-227, SOT-227, SOT-227-XX, SOT-227-XX, SOT-23, SOT-23, SOT-23-XX, SOT-23-XX, SOT-323, SOT-323-XX, SOT-323-XX, SOT-353, SOT-353-XX, SOT-353-XX, SOT-363, SOT-363-XX, SOT-363-XX, SOT-523, SOT-523-XX, SOT-523-XX, SOT-563, SOT-563-XX, SOT-563-XX, SOT-723, SOT-723-XX, SOT-723-XX, SOT-82, SOT-82, SOT-89, SOT-89R-XX, SOT-89R-XX, SOT-89-XX, SOT-89-XX, SSOP-16, SSOP-4, SSOP-4, STOLL7x8-5L, TO-126, TO-202, TO-202-XX, TO-220A, TO-220A-2D-XX, TO-220AB, TO-220A-XX, TO-220B, TO-220B-XX, TO-220C, TO-220C-XX, TO-220F, TO-220FA, TO-220FA-XX, TO-220FP, TO-220FP-XX, TO-220HF, TO-220H-XX, TO-220-XX, TO-247, TO-247-XX, TO-247iPS-2L, TO-247iPS-3L, TO-247J, TO-247J-XX, TO-247plus, TO-247S, TO-247S-XX, TO-247-XX, TO-251, TO-251L-XX, TO-251S, TO-251-XX, TO-252, TO-252-XX, TO-262, TO-262-XX, TO-263, TO-263-XX, TO-277B, TO-3P, TO-3P-3L, TO-3PF-3L, TO-92, TO-92CR, TO-92KR, TO-92KRF, TO-92UR, TO-92-XX, TOLL9.9x10.38-8L, TSSOP-8, TSSOP-8, WSOP-6



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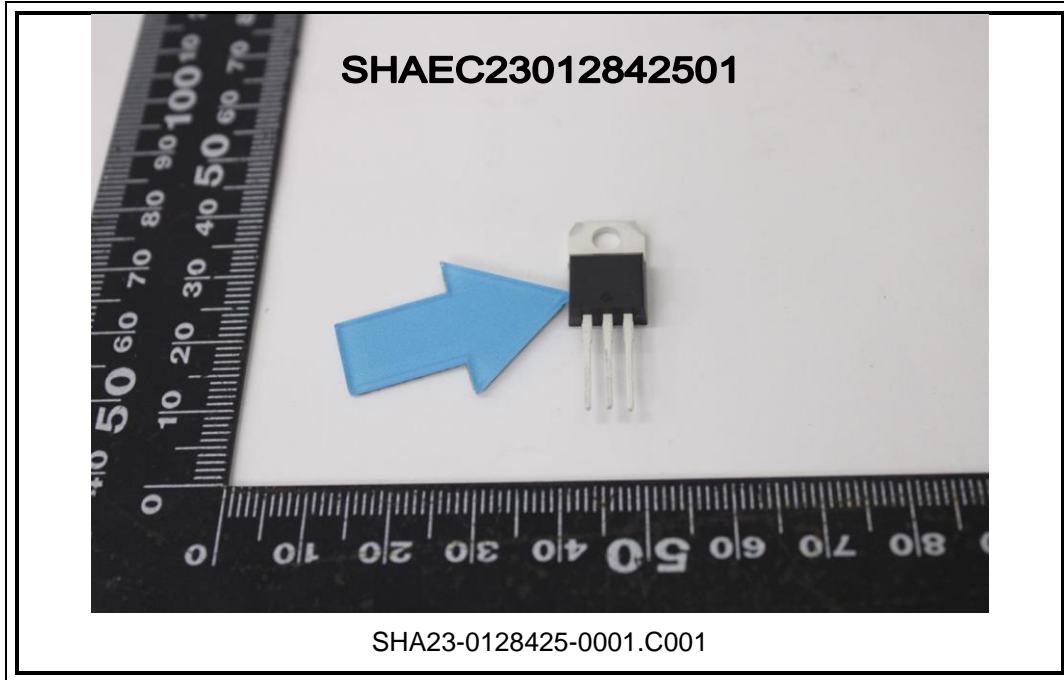
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