



**BUREAU
VERITAS**

TEST REPORT

LAB NO. : (6623)345-0693
DATE : December 14, 2023
PAGE : 1 OF 16

Applicant 申请人公司名称:

RIZHAO WEIYE PLASTIC PACKAGING CO., LTD.

日照伟烨塑料包装有限公司

NO.60, HAIKOU ROAD, INTERSECTION OF HAIKOU ROAD AND WUXI ROAD, RIZHAO ECONOMIC DEVELOPMENT ZONE, SHANDONG PROVINCE

山东省日照市经济开发区海口路与无锡路交汇处海口路 60 号

Date of Submission 样品收取日期: 2023-12-11
Test Period 所需工作周期: 2023-12-11 to 2023-12-14
Sample Mode 来样方式: Sample Presentation 委托单位送样
BV EE Ref. No. BV 参考编号: /

Sample Description 样品描述:		Sample(s) received is(are) stated to be 收到的送测样品为: Name: 复合袋/Composite bags; material: BOPA15/LDPE60; Batch No.2023112102	
Manufacturer 制造商:	日照伟烨塑料包装有限公司 Rizhao Weiye Plastic Packaging Co., Ltd.	Buyer 买家:	/
Style No(s) 款号:	320*230*0.15 (mm)	PO No. 采购订单号:	/
Country of Origin 原产国:	/	Country of Destination 目的国:	Oversea Country

Test Item(s) 测试项目: Details see page 2 详见第二页

REMARK/备注

If there are questions or concerns on this report, please contact the following persons:

若有任何疑问或咨询, 可通过下述联络方式与我们联系

General enquiry and invoicing

其他问题

Technical enquiry

技术问题

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**BUREAU VERITAS
CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)
必维国际检验集团-必维中美商品检测(上海)有限公司**

Laboratory Test Location 实验室检测地址:

No.368,Guangzhong Road, Zhuanqiao Town, Minhang, Shanghai 上海市闵行区光中路 368 号
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PREPARED BY :

Mike

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This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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SUMMARY OF TEST RESULTS 测试结果摘要

TEST REQUESTED 测试要求	REMARK 备注
Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Test – US Toxics in Packaging Clearinghouse (TPCH) Model Legislation (2021 Update) & As Applicant’s requirement 全氟烷基和多氟烷基物质(PFAS)测试 - 美国 TPCH 包装材料中有毒物质控制示范法规 (2021 更新) & 按照客户要求	See Result 见结果页

Note 注释: The tested part of the sample was specified by client. 样品的测试部位由客户指定。
The test conclusion was given based on the results of tested part. 结论基于测试部位结果。
Chinese translation of report just for reference only, English report shall prevail if you have any objection.
报告中文翻译仅供参考, 如有异议以英文报告内容为准。

Sample Description Assigned by Laboratory:

实验室对样品的描述:

Test Item 测试项目	Description 描述
1	Plastic with printing

Note 注释:

g = gram(s) 克	% = percentage 百分比
mcg = microgram(s) 微克	1 mg/kg = 0.0001%
mg/kg = milligram per kilogram 毫克每千克	“<” = less than 小于
mg/L = milligram per litre 毫克每升	“>” = Greater than 大于
g/kg = gram(s) per kilogram 克每千克	Req. = Requirement 要求
MDL = Method Detection Limit 方法检测限	“-” = Not Regulated 未规定
ND = Not Detected (< MDL) 未检出	NA = Not applicable 不适用
EX = Exempted 豁免	



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Photo of the Submitted Sample
递交样品照片





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TEST RESULT 测试结果

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Test –US Toxics in Packaging Clearinghouse (TPCH) Model Legislation (2021 Update) & As Applicant’s requirement

全氟烷基和多氟烷基物质(PFAS)测试 - 美国 TPCH 包装材料中有毒物质控制示范法规 (2021 更新) & 按照客户要求

Test Method: In house method and analysis by Gas Chromatograph Mass Spectrometer (GC-MS) and Liquid Chromatograph
测试方法: Mass/Mass Spectrometer (LC-MS-MS).
实验室内部分方法，采用气相色谱-质谱联用仪及液相色谱串联四级杆质谱联用仪分析。

Tested Item(s) 测试项目	Result 结果			Conclusion 结论
	Detected Analyte(s)检出物质	Conc. 浓度	Unit 单位	
1	ND	ND	mg/kg	DATA 数据

Note / Key 注释:

ND = Not detected 未检出 mg/kg = milligram per kilogram 毫克每千克 Conc. = Concentration 浓度

Remark 备注:

- The list of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) is summarized in table of Appendix.
全氟烷基和多氟烷基物质(PFAS)名单在附录表格中



APPENDIX 附录

List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
1	1	Perfluorobutyric Acid (PFBA) 全氟丁酸	375-22-4	0.01
2		Sodium heptafluorobutyrate (PFBA-Na) 七氟丁酸钠	2218-54-4	0.01
3		Ammonium perfluorobutanoate (PFBA-NH4) 全氟丁酸铵	10495-86-0	0.01
4		Potassium heptafluorobutanoate (PFBA-K) 七氟丁酸钾	2966-54-3	0.01
5		Silver perfluorobutanoate (PFBA-Ag) 全氟丁酸银	3794-64-7	0.01
6		Lithium perfluorobutanoate (PFBA-Li) 全氟丁酸锂	4146-76-3	0.01
7	2	Perfluoropentanoic Acid (PFPA) 全氟戊酸	2706-90-3	0.01
8		Potassium perfluoropentanoate (PFPA-K) 全氟戊酸钾	336-23-2	0.01
9		Sodium perfluoropentanoate (PFPA-Na) 全氟戊酸钠	2706-89-0	0.01
10		Ammonium perfluoropentanoate (PFPeA-NH4) 全氟戊酸铵	68259-11-0	0.01
11		Lithium perfluoropentanoate (PFPeA-Li) 全氟戊酸锂	198482-22-3	0.01
12		Silver perfluoropentanoate (PFPeA-Ag) 全氟戊酸银	2795-30-4	0.01
13	3	Perfluoro-n-hexanoic acid (PFHxA) 全氟己酸	307-24-4	0.01
14		Hexanoic acid, undecafluoro-, potassium salt (PFHxA-K) 十一氟己酸钾盐	3109-94-2	0.01
15		Sodium undecafluorohexanoate (PFHxA-Na) 十一氟己酸钠	2923-26-4	0.01
16		Azane,2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-NH4) 全氟己酸铵	21615-47-4	0.01
17		Silver perfluorohexanoate (PFHxA-Ag) 全氟己酸银	336-02-7	0.01
18		Lithium perfluorohexanoate (PFHxA-Li) 全氟己酸锂	90430-61-8	0.01
19	4	Perfluoro-n-heptanoic acid (PFHpA) 全氟庚酸	375-85-9	0.01
20		Sodium perfluoroheptanoate (PFHpA-Na) 全氟辛酸钠	20109-59-5	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
21	4	Potassium perfluoroheptanoate (PFHpA-K) 全氟庚酸钾	21049-36-5	0.01
22		Ammonium perfluoroheptanoate (PFHpA-NH ₄) 全氟辛酸铵	6130-43-4	0.01
23		Cesium perfluoroheptanoate (PFHpA-Cs) 全氟庚酸铯	171198-24-6	0.01
24		Silver perfluoroheptanoate (PFHpA-Ag) 全氟庚酸银	424-05-5	0.01
25		Lithium perfluoroheptanoate (PFHpA-Li) 全氟庚酸锂	60871-90-1	0.01
26	5	7H-Perfluoroheptanoic acid (HPFHpA) 7H-十二氟庚酸	1546-95-8	0.01
27		Sodium 7H-perfluoroheptanoate (HPFHpA-Na) 7H-全氟辛酸钠	2264-25-7	0.01
28	6	Perfluoro-n-octanoic acid (PFOA) 全氟辛酸	335-67-1	0.01
29		Perfluorooctanoyl fluoride (PFOA-F) 全氟辛酰基氟化物	335-66-0	0.01
30		Methyl perfluorooctanoate (PFOA-Me) 全氟辛酸甲酯	376-27-2	0.01
31		Ethyl perfluorooctanoate (PFOA-Et) 全氟辛酸乙酯	3108-24-5	0.01
32		Sodium perfluorooctanoate (PFOA-Na) 全氟辛酸钠	335-95-5	0.01
33		Potassium perfluorooctanoate (PFOA-K) 全氟辛酸钾	2395-00-8	0.01
34		Silver perfluorooctanoate (PFOA-Ag) 全氟辛酸银	335-93-3	0.01
35		Ammonium pentadecafluorooctanoate (APFO) 全氟辛酸铵	3825-26-1	0.01
36		Lithium perfluorooctanoate (PFOA-Li) 全氟辛酸锂	17125-58-5	0.01
37		7	Perfluoro-n-nonanoic acid (PFNA) 全氟壬酸	375-95-1
38	Ammonium perfluorononanoate (PFNA-NH ₄) 全氟壬酸铵		4149-60-4	0.01
39	Sodium perfluorononanoate (PFNA-Na) 全氟壬酸钠		21049-39-8	0.01
40	Potassium perfluorononanoate (PFNA-K) 全氟辛酸钾		21049-38-7	0.01
41	Lithium perfluorononanoate (PFNA-Li) 全氟辛酸锂		60871-92-3	0.01
42	Silver perfluorononanoate (PFNA-Ag) 全氟纳米银		7358-16-9	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
43	8	Perfluoro-n-decanoic acid (PFDA) 全氟癸酸	335-76-2	0.01
44		Sodium perfluorodecanoate (PFDA-Na) 全氟癸酸钠盐	3830-45-3	0.01
45		Ammonium perfluorodecanoate (PFDA-NH4) 全氟癸酸铵	3108-42-7	0.01
46		Potassium perfluorodecanoate (PFDA-K) 全氟癸酸钾	51604-85-4	0.01
47		Lithium perfluorodecanoate (PFDA-Li) 全氟癸酸锂	84743-32-8	0.01
48		Silver perfluorodecanoate (PFDA-Ag) 全氟癸酸银	5784-82-7	0.01
49	9	2H,2H-Perfluorodecanoic acid (8:2 FTCA /H2PFDA) 2H,2H-全氟癸酸	27854-31-5	0.01
50		Tetrabutylphosphonium 2H, 2Hperfluorodecanoate (8:2 FTCAP(C4H9)4 /H2PFDA(C4H9)4) 2H,2H-全氟癸酸四丁酯	882489-14-7	0.01
51	10	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) 全氟-3,7-二甲基辛酸	172155-07-6	0.01
52	11	Perfluoroundecanoic Acid (PFUnDA) 全氟十一烷酸	2058-94-8	0.01
53		Sodium perfluoroundecanoate (PFUnDA-Na) 全氟辛酸钠	60871-96-7	0.01
54		Ammonium perfluoroundecanoate (PFUnDA-NH4) 全氟辛酸铵	4234-23-5	0.01
55		Potassium perfluoroundecanoate (PFUnDA-K) 全氟辛酸钾	30377-53-8	0.01
56	12	2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA/H4PFUnA) 2H,2H,3H,3H-全氟十一烷酸	34598-33-9	0.01
57		Potassium 3-(perfluorooctyl)propanoate (H4PFUnA-K) 3-(全氟辛基)丙酸钾	83310-58-1	0.01
58	13	Perfluorododecanoic Acid (PFDoA) 全氟十二烷酸	307-55-1	0.01
59		Perfluorododecanoic Acid, ammonium salt (PFDoDA- NH4) 全氟十二酸铵盐	3793-74-6	0.01
60		Sodium perfluorododecanoate (PFDoDA-Na) 全氟癸酸钠	60872-01-7	0.01
61	14	Perfluorotridecanoic Acid (PFTrA) 全氟十三酸	72629-94-8	0.01
62		Ammonium perfluorotridecanoate (PFTrDA-NH4) 全氟三烯酸铵	4288-72-6	0.01
63	15	Perfluorotetradecanoic Acid (PFTeA) 全氟十四酸	376-06-7	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
64	16	Perfluorooctadecanoic Acid (PFODA) 全氟十八酸	16517-11-6	0.01
65	17	Perfluorohexadecanoic acid (PFHxDA) 全氟十六烷酸	67905-19-5	0.01
66	18	Perfluorobutanesulfonic acid(PFBS) 全氟-1-丁磺酸	375-73-5	0.01
67		Perfluorobutanesulfonic acid potassium salt (PFBS-K) 全氟丁基磺酸钾	29420-49-3	0.01
68		Perfluorobutanesulfonic acid hydrate (PFBS-H ₂ O) 九氟丁烷磺酸	59933-66-3	0.01
69		Dimethyl(phenyl)sulfanium perfluorobutanesulfonate 全氟丁磺酸二甲基(苯基)铈	220133-51-7	0.01
70		Triphenylsulfanium perfluorobutane sulfonate 全氟丁烷磺酸三苯基铈	144317-44-2	0.01
71		Magnesium perfluorobutanesulfonate 全氟丁磺酸镁	507453-86-3	0.01
72		Lithium perfluorobutanesulfonate 全氟丁磺酸锂	131651-65-5	0.01
73		Morpholinium perfluorobutanesulfonate 全氟丁磺酸吗啉	503155-89-3	0.01
74		N,N,N,-triethylethanaminium 1,1,2,2,3,3,4,4,4- nonafluorobutane-1-sulfonate N, N,N,-三乙基乙醇胺 1,1,2,2,3,3,4,4-一氟丁烷-1-磺酸 盐	25628-08-4	0.01
75		Bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate 全氟丁磺酸双(4-叔丁基苯基)碘	194999-85-4	0.01
76		Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate 九氟丁-1-磺酸四丁基磷	220689-12-3	0.01
77		1-Butanesulfonyl fluoride, 1,1,2,2,3,3,4,4,4-nonafluoro- (PFBSF) 1,1,2,2,3,3,4,4,4-单氟 1-丁磺酰氟	375-72-4	0.01
78		Nonafluoro-1-butanesulfonyl chloride (PFBSCl) 非氟-1-丁磺酰氯	2991-84-6	0.01
79		Ammonium perfluorobutanesulfonate (PFBS-NH ₄) 全氟丁磺酸铵	68259-10-9	0.01
80	Sodium perfluorobutanesulfonate (PFBS-Na) 全氟丁磺酸钠	60453-92-1	0.01	
81	19	Perfluorohexanesulfonic acid(PFHxS) 全氟己烷磺酸	355-46-4	0.01
82		Perfluorohexanesulfonic acid potassium salt (PFHxS-K) 全氟己基磺酸钾	3871-99-6	0.01
83		Perfluorohexanesulfonic acid sodium salt (PFHxS-Na) 全氟己基磺酸钠	82382-12-5	0.01
84		Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li) 全氟己烷磺酸, 锂盐	55120-77-9	0.01



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No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
85	19	Perfluorohexane Sulfonic acid, ammonium salt (PFH _x S-NH ₄) 全氟己烷磺酸, 铵盐	68259-08-5	0.01
86		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟钕(3+)盐 1-己烷磺酸(3:1)	41184-65-0	0.01
87		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟钇(3+)盐(3:1)1-己烷磺酸	41242-12-0	0.01
88		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己烷磺酸锌盐	70136-72-0	0.01
89		Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) 十氟己磺酸与 2,2'-亚氨基二乙醇的化合物(1:1)	70225-16-0	0.01
90		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己烷磺酸,与 N,N-二乙基乙胺(1:1)	72033-41-1	0.01
91		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三十氟-1-己烷磺酸铯盐(1:1)	92011-17-1	0.01
92		1-Butanaminium, N,N,N-tributyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid 1-丁铵, N,N,N-三丁基-, 与 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸的盐	108427-54-9	0.01
93		Ethanaminium, N,N,N-triethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) N, N, N-三乙基乙胺与 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸的盐(1:1)	108427-55-0	0.01
94		Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸三苯基硫(1:1)	144116-10-9	0.01
95		Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸二苯碘鎓(1:1)	153443-35-7	0.01
96		Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) 与 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸的 N, N, N-三甲基甲烷鎓盐(1:1)	189274-31-5	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
97	19	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己烷磺酸, 与 2-甲基-2-丙胺(1:1)混合	202189-84-2	0.01
98		Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) 双[4-(1,1-二甲基乙基)苯基]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸碘鎓(1:1)	213740-81-9	0.01
99		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI) 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟镓盐(9CI)1-己烷磺酸	341035-71-0	0.01
100		Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) 双(4-甲基苯基)苯基-, 1,1,2,2,3,3,4,4,5,5,6,6,6-三十氟-1-己磺酸盐(1:1)	341548-85-4	0.01
101		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟钪(3+)盐 1-己烷磺酸(3:1)	350836-93-0	0.01
102		Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic (硫代二-4,1-亚苯基)双[二苯基]硫与 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸的盐	421555-73-9	0.01
103		Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic 双[4-(1,1-二甲基丙基)苯基]-碘鎓与 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸的盐	421555-74-0	0.01
104		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic 三[4-(1,1-二甲基乙基)苯基]-硫与 1,1,2,2,3,3,4,4,5,5,6,6,6-三十氟-1-己磺酸的盐	425670-70-8	0.01
105		Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI) 双[(1,1-二甲基乙基)苯基]-碘与 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸的盐(1:1) (9CI)	866621-50-3	0.01
106		Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三十氟-1-己磺酸(4-甲基苯基)二苯硫鎓(1:1)	910606-39-2	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
107	19	Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) [4-[(2-甲基-1-氧代-2-丙烯-1-基)氧基]苯基]二苯基磺酰基 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸盐(1:1)	911027-68-4	0.01
108		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).... 磺, [4-[(2-甲基-1-氧代-2-丙烯基)氧基]苯基]二苯基, 与 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸的盐(1:1)	911027-69-5	0.01
109		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) 19-[4-(1,1-二甲基乙基)苯基]-6,7,9,10,12,13-六氢-1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸二苯并[k, n][1,4,7,10,13]四氧杂噻环五十溴铈(1:1)	928049-42-7	0.01
110		Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) 磷, 三苯基(苯基甲基)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-三十氟-1-己磺酸盐(1:1)	1000597-52-3	0.01
111		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with pyrrolidine (1:1) 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己烷磺酸与吡咯烷(1:1)	1187817-57-7	0.01
112		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) N-[4-[[4-(二乙基氨基)苯基][4-(乙基氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-乙基-, 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸乙铵(1:1)	1310480-24-0	0.01
113		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) 甲基铵, N-[4-[[4-(二甲基氨基)苯基][4-(乙基氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基-, 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸盐(1:1)	1310480-27-3	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
114	19	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) 甲基铵, N-[4-[[4-(二甲基氨基)苯基][4-(苯基氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基-, 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸盐(1:1)	1310480-28-4	0.01
115		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) β-环糊精。与 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸离子(1-) (1:1)	1329995-45-0	0.01
116		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) γ-环糊精。与 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸离子(1-) (1:1)	1329995-69-8	0.01
117	20	Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) 喹啉, 1-(羧甲基)-4-[2-[4-[4-(2,2-二苯基噻吩基)苯基]-1,2,3a, 4,8b-六氢环[b]吲哚-7-基]乙烯基]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-三氟-1-己磺酸酯(1:1)	1462414-59-0	0.01
118		Perfluorohexane sulphonyl fluoride 全氟己烷磺酰氟	423-50-7	0.01
119		Perfluoro-1-heptanesulfonic acid (PFHpS) 全氟庚基磺酸	375-92-8	0.01
120		Perfluoro-1-heptanesulfonic acid potassium salt (PFHpS-K) 全氟庚基磺酸钾	60270-55-5	0.01
121		Perfluoro-1-heptanesulfonic acid sodium salt (PFHpS-Na) 全氟-1-庚烷磺酸钠盐	21934-50-9	0.01
122		Ammonium perfluoroheptanesulfonate (PFHpS-NH4) 全氟庚磺酸铵	68259-07-4	0.01
123	Lithium perfluoroheptanesulfonate (PFHpS-Li) 全氟庚磺酸锂	117806-54-9	0.01	
124	21	Perfluorooctanesulfonic acid(PFOS) 全氟辛基磺酸	1763-23-1	0.01
125		Perfluorooctanesulfonic acid potassium salt (PFOS-K) 全氟辛基磺酸钾	2795-39-3	0.01
126		Ammonium perfluorooctanesulfonate (PFOS-NH3) 全氟辛基磺酸铵	29081-56-9	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
127	21	Perfluorooctanesulfonic acid lithium salt (PFOS-Li) 全氟辛基磺酸锂	29457-72-5	0.01
128		Perfluorooctanesulfonic acid tetraethylammonium salt (PFOSN(C ₂ H ₅) ₄) 全氟辛基磺酸四乙基铵	56773-42-3	0.01
129		Perfluoro-1-octanesulfonyl fluoride (PFOS-F) 全氟辛基磺酰氟	307-35-7	0.01
130		Perfluorooctane sulfonate diethanolamine salt (PFOS-DEA) 全氟辛基磺酸二乙醇铵	70225-14-8	0.01
131		1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-1-octanesulfonate NDecyl-N,N-dimethyl-1-decanaminium salt (PFOSN(CH ₃) ₂ •((CH ₂) ₉ CH ₃) ₂) 全氟辛基磺酸二癸二甲基铵	251099-16-8	0.01
132		Perfluorooctanesulfonic acid sodium salt (PFOS-Na) 全氟辛基磺酸钠	4021-47-0	0.01
133		1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, compd. with piperidine (1:1) 1-辛烷磺酸, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-含哌啶化合物(1:1)	71463-74-6	0.01
134		Magnesium bis[heptafluorooctanesulphonate] 双[十七氟辛烷磺酸镁]	91036-71-4	0.01
135		22	Perfluorodecane sulfonic acid (PFDS) 全氟癸烷磺酸	335-77-3
136	Perfluorodecane sulfonic acid sodium salt (PFDS-Na) 全氟癸烷磺酸钠		2806-15-7	0.01
137	Perfluorodecane sulfonic acid potassium salt (PFDS-K) 全氟癸烷磺酸钾		2806-16-8	0.01
138	Ammonium perfluorodecanesulfonate (PFDS-NH ₄) 全氟癸烷磺酸铵		67906-42-7	0.01
139	23	1H,1H,2H,2H-perfluorohexane sulfonate acid (4:2 FTS) 1H,1H,2H,2H-全氟己二磺酸	757124-72-4	0.01
140		1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt (4:2 FTS-Na) 1H,1H,2H,2H -全氟己二磺酸钠	NA	0.01
141	24	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS) 1H,1H,2H,2H-全氟辛烷磺酸	27619-97-2	0.01
142		Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na) 1H,1H,2H,2H -全氟辛烷磺酸钠	27619-94-9	0.01
143		Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K) 1H,1H,2H,2H -全氟辛烷磺酸钾	59587-38-1	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
144	25	1H,1H,2H,2H-Perfluorododecane sulfonate acid (8:2 FTS) 1H,1H,2H,2H-全氟癸磺酸	39108-34-4	0.01
145		1H,1H,2H,2H-Perfluorododecane sulfonate acid Sodium salt (8:2 FTS-Na) 1H,1H,2H,2H-全氟癸磺酸钠	NA	0.01
146	26	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS) 1H,1H,2H,2H-全氟十二烷磺酸	120226-60-0	0.01
147	27	Perfluorooctane Sulfonamide (PFOSA) 全氟辛基磺酰胺	754-91-6	0.01
148		Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) 全氟辛烷磺酰胺锂盐(1:1)	76752-79-9	0.01
149	28	N-Methylperfluoro-1-octanesulfonamide (N-MeFOSA) N-甲基全氟辛烷磺酰胺	31506-32-8	0.01
150	29	N-Ethylperfluoro-1-octanesulfonamide (N-EtFOSA) 氟虫胺(N-乙基全氟辛基磺酰胺)	4151-50-2	0.01
151		"2-(N-Ethylperfluorooctanesulfonamido) ethyl acrylate (N-EtFOSA-AC)" N-乙基全氟辛基磺酰胺基乙基丙烯酸酯	423-82-5	0.01
152	30	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol(N-MeFOSE) N-甲基全氟辛基磺酰胺乙醇	24448-09-7	0.01
153	31	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol(N-EtFOSE) N-乙基全氟辛基磺酰胺乙醇	1691-99-2	0.01
154	32	Perfluorooctane sulfonamidoacetic acid (FOSAA) 全氟辛烷磺酰胺乙酸	2806-24-8	0.01
155	33	2-(N-Methylperfluorooctane sulfoamido) acetic acid (N-MeFOSAA) 2-(N-甲基全氟辛烷磺酰氨基)乙酸	2355-31-9	0.01
156	34	N-Ethylperfluorooctane sulfonamidoacetate (N-EtFOSAA) 2-(N-乙基全氟辛烷磺酰氨基)乙酸	2991-50-6	0.01
157	35	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanic acid (HFPO-DA) 全氟(2-甲基-3-氧杂己酸)	13252-13-6	0.01
158		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propanic acid ammonium salt (HFPO-DA-NH4) 2,3,3,3-四氟-2-(七氟丙氧基)丙酸铵盐	62037-80-3	0.01
159		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propanic acid potassium salt (HFPO-DA-K) 2,3,3,3-四氟-2-(七氟丙氧基)丙酸钾盐	67118-55-2	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
160	35	2,3,3,3-Tetrafluoro-2-(perfluoropropoxy)propanoyl fluoride (HFPO-DA-F) 2,3,3,3-四氟-2-(全氟丙氧基)丙酰氟	21062-98-8	0.01
161		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride 2,3,3,3-四氟-2-(七氟丙氧基)丙酰氟	2062-98-8	0.01
162	36	Bis[2-(perfluorooctyl)ethyl] phosphate (8:2 diPAP) 双(2-(全氟乙基))磷酸	678-41-1	0.01
163		Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na) 双(1H,1H,2H,2H-全氟十二烷基)磷酸钠	114519-85-6	0.01
164	37	Mono[2-(perfluorodecyl)ethyl] Phosphate (10:2 monoPAP) 2-(全氟癸基乙基)磷酸	57678-05-4	0.01
165		Mono[2-(perfluorodecyl)ethyl] Phosphate Cyclohexylamine Salt (10:2 monoPAP-(C6H11NH2)2) 2-(全氟癸基乙基)磷酸环己胺盐	NA	0.01
166		3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafluorododecyl dihydrogen phosphate cyclohexylamine 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-二十碳六氟十二烷基磷酸二氢环己胺	2514858-66-1	0.01
167	38	Bis[2-(perfluorodecyl)ethyl] Phosphate (10:2 diPAP) 双 2-(全氟癸基)磷酸乙酯	1895-26-7	0.01
168	39	N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA) N-甲基全氟己基磺酰胺	68259-15-4	0.01
169	40	Perfluorohexane sulfonamide (PFHxSA) 全氟己烷磺酰胺	41997-13-1	0.01
170	41	2-Perfluorobutylethanol(FTOH 4-2) 全氟丁基乙醇	2043-47-2	0.01
171	42	2-Perfluorohexylethanol(FTOH 6-2) 全氟己基乙醇	647-42-7	0.01
172	43	2-Perfluorooctylethanol(FTOH 8-2) 全氟辛基乙醇	678-39-7	0.01
173	44	2-Perfluorodecylethanol(FTOH 10-2) 全氟癸基乙醇	865-86-1	0.01
174	45	2- Perfluorododecylethanol (12:2 FTOH) 全氟十二烷基乙醇	39239-77-5	0.01
175	46	1H,1H,2H,2H-Perfluorooctylacrylate (FTA 6-2) 1H,1H,2H,2H-全氟辛醇丙烯酸酯	17527-29-6	0.01
176	47	1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTAC) 1H,1H,2H,2H-全氟丙烯酸癸酯	27905-45-9	0.01



List of Perfluoroalkyl and polyfluoroalkyl substances (PFAS) 全氟烷基和多氟烷基物质列表 :

No. 序号	Group 组别	Name of Analytes 分析物名称	CAS No.	Detection Limit 检出限(mg/kg)
177	48	1H,1H,2H,2H-Perfluorododecylacrylate(FTA 10-2) 1H,1H,2H,2H-全氟癸基丙烯酸乙酯	17741-60-5	0.01
178	49	1H,1H,2H,2H-Perfluoro-n-octyl methacrylate (6:2 FTMAC) 全氟己基乙基甲基丙烯酸酯	2144-53-8	0.01
179	50	1H,1H,2H,2H-Perfluoro-n-decyl methacrylate (8:2 FTMAC) 全氟辛基乙基甲基丙烯酸酯	1996-88-9	0.01
180	51	1H,1H,2H,2H-Perfluoro-ndodecyl methacrylate (10:2 FTMAC) 全氟十二烷基甲基丙烯酸酯	2144-54-9	0.01
181	52	Perfluorooctyl ethyl iodide (8:2 FTI) 全氟辛基乙基碘	2043-53-0	0.01
182	53	Perfluorodecyl ethyl iodide (10:2 FTI) 全氟癸基碘化乙基	2043-54-1	0.01
183	54	Perfluorododecyl ethyl iodide (12:2 FTI) 全氟十二烷基碘化乙基	30046-31-2	0.01
184	55	Perfluorooctyl iodide (PFOI) 全氟辛基碘烷	507-63-1	0.01
185	56	Perfluorodecyl iodide (PFDI) 全氟癸基碘	423-62-1	0.01
186	57	Perfluorododecyl iodide (PFDODI) 全氟十二烷基碘	307-60-8	0.01
187	58	1H,1H,2H,2H-perfluorodecyltriethoxysilane (PFSI) 1H,1H,2H,2H-全氟十七烷三甲基氧硅烷	101947-16-4	0.01
188	59	(Perfluorooctyl)ethylene (8:2 FTO) 全氟戊酸钾	21652-58-4	0.01

END
结束