

**Test Report** 

號碼(No.): ETR24800292 日期(Date): 12-Aug-2024 頁數(Page): 1 of 50

乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By) : 乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

樣品名稱(Sample Name) : RJ PLUG (RJ系列水晶頭(PC))

收件日(Sample Receiving Date) : 02-Aug-2024

測試期間(Testing Period) : 02-Aug-2024 to 09-Aug-2024

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

# 测試需求(Test Requested) 總 結(Summary) 依據客戶要求·評估所選樣品中特定PFAS的風險。被評估的PFAS 總項目數量為436項·包括131項檢測項和305項列表項 (see remark)。評估結果的總結請參考右表。(As requested by the client, the risk of specific PFAS in the selected sample is evaluated. The total amounts of evaluated PFAS are 436 items, concluding 131 tested items and 305 listed items (see remark). The summary of evaluated results are displayed in right table.)





IN CODE: 24C26438



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#### 測試部位敘述 (Test Part Description)

No.1 : 透明塑膠 (TRANSPARENT PLASTIC)

#### 測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
全氟/多氟烷基物質 (PFAS)				
PFHxA及其鹽類 (PFHxA and its salts)				
全氟已酸及其鹽類 (PFHxA and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluorohexane acid and its salts	,以液相層析串聯質譜儀分析。(Modified EN			
(PFHxA and its salts)) (CAS No.: 307-24-	17681-1: 2022 & EN 17681-2: 2022,			
4 and its salts)	analysis was performed by LC/MS/MS.)			
PFHxA相關化合物 (PFHxA related				
compounds)				
1H,1H,2H,2H-全氟-1-辛醇 (6:2 FTOH)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluoro-1-octanol	·以氣相層析質譜儀及液相層析串聯質譜儀分			
(6:2FTOH)) (CAS No.: 647-42-7)	析。(Modified EN 17681-1: 2022 & EN			
	17681-2: 2022, analysis was performed by			
	GC/MS and LC/MS/MS.)			
1H,1H,2H,2H-全氟辛基丙烯酸酯 (6:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTA) (1H,1H,2H,2H-	·以氣相層析質譜儀分析。(Modified EN			
Perfluorooctylacrylate (6:2FTA)) (CAS	17681-1: 2022 & EN 17681-2: 2022,			
No.: 17527-29-6)	analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟辛基甲基丙烯酸酯(6_2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTMAC) (1H,1H,2H,2H-Perfluorooctyl	·以氣相層析質譜儀分析。(Modified EN			
methacrylate (6:2 FTMAC)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
2144-53-8)	analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟辛磺酸及其鹽類 (6:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
FTS and its salts) (1H,1H,2H,2H-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluorooctanesulphonic acid and its	17681-1: 2022 & EN 17681-2: 2022,			
salts (6:2 FTS and its salts)) (CAS No.:	analysis was performed by LC/MS/MS.)			
27619-97-2 and its salts)				



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宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
1-碘-1H,1H,2H,2H-全氟辛烷 (6:2 FTI)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-	,以氣相層析質譜儀分析。(Modified EN			
8-iodooctane (6:2 FTI)) (CAS No.: 2043-	17681-1: 2022 & EN 17681-2: 2022,			
57-4)	analysis was performed by GC/MS.)			
全氟己基碘 (PFHxl) (Perfluorohexyl	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
iodide (PFHxI)) (CAS No.: 355-43-1)	·以氣相層析質譜儀分析。(Modified EN			
	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
全氟己基乙烯 (PFHxE) (Perfluorohexyl	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	1	n.d.
ethylene (PFHxE)) (CAS No.: 25291-17-	·以氣相層析質譜儀分析。(Modified EN			
2)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
PFHxS及其鹽類 (PFHxS and its salts)				
全氟己基磺酸及其鹽類 (PFHxS and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts) (Perfluorohexane sulfonate and	·以液相層析串聯質譜儀分析。(Modified EN			
its salts (PFHxS and its salts)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
355-46-4 and its salts)	analysis was performed by LC/MS/MS.)			
PFHxS相關化合物 (PFHxS related				
compounds)				
N-甲基全氟-1-己烷磺醯胺 (N-MeFHxSA)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(N-Methylperfluoro-1-	·以液相層析串聯質譜儀分析。(Modified EN			
hexanesulfonamide (N-Me-FHxSA))	17681-1: 2022 & EN 17681-2: 2022,			
(CAS No.: 68259-15-4)	analysis was performed by LC/MS/MS.)			
全氟己烷磺醯胺 (PFHxSA)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluorohexane sulfonamide	·以液相層析串聯質譜儀分析。(Modified EN			
(PFHxSA)) (CAS No.: 41997-13-1)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
N-[3-(二甲基氨基)丙基]十三氟己烷磺醯胺	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(N-AP-FHxSA) (N-[3-	·以液相層析串聯質譜儀分析。(Modified EN			
(dimethylamino)propyl]tridecafluorohe	17681-1: 2022 & EN 17681-2: 2022,			
xanesulphonamide (N-AP-FHxSA))	analysis was performed by LC/MS/MS.)			
(CAS No.: 50598-28-2)				



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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
2-[甲基[(十三氟己基)磺醯基]氨基]丙烯酸	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
乙酯 (N-MeFHSEA) (2-	·以氣相層析質譜儀分析。(Modified EN			
[Methyl[(tridecafluorohexyl)sulphonyl]a	l ·			
mino]ethyl acrylate (N-MeFHSEA)) (CAS	analysis was performed by GC/MS.)			
No.: 67584-57-0)				
2-[甲基[(十三氟己基)磺醯基]氨基]乙基甲	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
基丙烯酸酯 (2-Propenoic acid, 2-	·以氣相層析質譜儀分析。(Modified EN			
methyl-, 2-	17681-1: 2022 & EN 17681-2: 2022,			
[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-	analysis was performed by GC/MS.)			
tridecafluorohexyl)sulfonyl]amino]ethyl				
ester) (CAS No.: 67584-61-6)				
2-[乙基[(十三氟己基)磺醯基]氨基]乙基甲	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
基丙烯酸酯 (2-Propenoic acid, 2-	·以氣相層析質譜儀分析。(Modified EN			
methyl-, 2-	17681-1: 2022 & EN 17681-2: 2022,			
[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-	analysis was performed by GC/MS.)			
tridecafluorohexyl)sulfonyl]amino]ethyl				
ester) (CAS No.: 67906-70-1)				
十三氟-N-(2-羥基乙基)-N-甲基己烷磺醯	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
胺 (MeFHxSE) (1-Hexanesulfonamide,	·以液相層析串聯質譜儀分析。(Modified EN			
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-	17681-1: 2022 & EN 17681-2: 2022,			
(2-hydroxyethyl)-N-methyl-(MeFHxSE))	analysis was performed by LC/MS/MS.)			
(CAS No.: 68555-75-9)				
N-乙基-N-[(十三氟己基)磺醯基]甘氨酸及	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
其鹽類 (EtFHxSAA and its salts) (Glycine,	·以液相層析串聯質譜儀分析。(Modified EN			
N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-	17681-1: 2022 & EN 17681-2: 2022,			
tridecafluorohexyl)sulfonyl] and its salts	analysis was performed by LC/MS/MS.)			
(EtFHxSAA and its salts)) (CAS No.:				
68957-32-4 and its salts)				



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宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
PFOS及其鹽類 (PFOS and its salts)				
全氟辛烷磺酸及其鹽類 (PFOS and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts) (Perfluorooctane sulfonates and	,以液相層析串聯質譜儀分析。(Modified EN			
its salts (PFOS and its salts)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
1763-23-1 and its salts)	analysis was performed by LC/MS/MS.)			
PFOS相關化合物 (PFOS related				
compounds)				
N-乙基全氟正辛磺醯胺 (EtFOSA) (N-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
ethylperfluoro-1-octanesulfonamide	,以液相層析串聯質譜儀分析。(Modified EN			
(EtFOSA)) (CAS No.: 4151-50-2)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
N-甲基全氟正辛磺醯胺 (N-Me-FOSA)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(N-Methyl-Perfluoroctanesulfonamide	·以液相層析串聯質譜儀分析。(Modified EN			
(N-Me-FOSA)) (CAS No.: 31506-32-8)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
N-乙基全氟辛基磺醯胺乙醇 (N-Et-FOSE	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
alcohol) (N-Ethyl-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluoroctanesulfonamidoethanol (N-	17681-1: 2022 & EN 17681-2: 2022,			
Et-FOSE alcohol)) (CAS No.: 1691-99-2)	analysis was performed by LC/MS/MS.)			
1	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
alcohol) (N-Methyl-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluoroctanesulfonamidoethanol (N-	17681-1: 2022 & EN 17681-2: 2022,			
Me-FOSE alcohol)) (CAS No.: 24448-	analysis was performed by LC/MS/MS.)			
09-7)				
全氟辛基磺醯胺及其鹽類 (PFOSA and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts) (Perfluoroctanesulfonamide and	·以液相層析串聯質譜儀分析。(Modified EN			
its salts (PFOSA and its salts)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
754-91-6 and its salts)	analysis was performed by LC/MS/MS.)			
PFOA及其鹽類 (PFOA and its salts)				
全氟辛酸及其鹽類 (PFOA and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluorooctanoic acid and its salts	·以液相層析串聯質譜儀分析。(Modified EN			
(PFOA and its salts)) (CAS No.: 335-67-1	17681-1: 2022 & EN 17681-2: 2022,			
and its salts)	analysis was performed by LC/MS/MS.)			



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
PFOA相關化合物 (PFOA related				
compounds)				
全氟辛酸甲酯 (Me-PFOA) (Methyl	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
perfluorooctanoate (Me-PFOA)) (CAS	,以氣相層析質譜儀分析。(Modified EN			
No.: 376-27-2)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
全氟辛酸乙酯 (Et-PFOA) (Ethyl	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
perfluorooctanoate (Et-PFOA)) (CAS	·以氣相層析質譜儀分析。(Modified EN			
No.: 3108-24-5)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
全氟辛基碘烷 (PFOI) (Perfluoro-1-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
iodooctane (PFOI)) (CAS No.: 507-63-1)	,以氣相層析質譜儀分析。(Modified EN			
	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
3-全氟庚基丙酸 (7:3 FTCA) (3-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
Perfluoroheptyl propanoic acid (7:3	·以液相層析串聯質譜儀分析。(Modified EN			
FTCA)) (CAS No.: 812-70-4)	17681-1: 2022 & EN 17681-2: 2022,			
7 THE TOTAL OF THE	analysis was performed by LC/MS/MS.)			
1H,1H,2H,2H-全氟癸磺酸及其鹽類 (8:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
FTS and its salts) (1H,1H,2H,2H-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluorodecanesulfonic acid and its	17681-1: 2022 & EN 17681-2: 2022,			
salts (8:2 FTS and its salts)) (CAS No.:	analysis was performed by LC/MS/MS.)			
39108-34-4 and its salts)				
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluoro-1-decanol (8:2	·以氣相層析質譜儀及液相層析串聯質譜儀分			
FTOH)) (CAS No.: 678-39-7)	析。(Modified EN 17681-1: 2022 & EN			
	17681-2: 2022, analysis was performed by			
	GC/MS and LC/MS/MS.)			
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTA) (1H,1H,2H,2H-Perfluorodecyl	,以氣相層析質譜儀分析。(Modified EN			
acrylate (8:2 FTA)) (CAS No.: 27905-45-	17681-1: 2022 & EN 17681-2: 2022,			
9)	analysis was performed by GC/MS.)			



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
1H,1H,2H,2H-全氟癸基甲基丙烯酸酯 (8:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTMA) (1H,1H,2H,2H-Perfluorodecyl	·以氣相層析質譜儀分析。(Modified EN			
methacrylate (8:2 FTMA)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
1996-88-9)	analysis was performed by GC/MS.)			
2H,2H-全氟癸酸及其鹽類 (H2PFDA and	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
its salts) (2H,2H-Perfluorodecane acid	·以液相層析串聯質譜儀分析。(Modified EN			
and its salts (H2PFDA and its salts))	17681-1: 2022 & EN 17681-2: 2022,			
(CAS No.: 27854-31-5 and its salts)	analysis was performed by LC/MS/MS.)			
1H,1H,2H,2H-全氟癸基碘 (8_2 FTI)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluorodecyl iodide	·以氣相層析質譜儀分析。(Modified EN			
(8_2 FTI)) (CAS No.: 2043-53-0)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟十七烷三甲基氧矽烷(8:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTSi(OC2H5)3) (1H,1H,2H,2H-	·以氣相層析質譜儀分析。(Modified EN			
Perfluorodecyltriethoxysilane (8:2	17681-1: 2022 & EN 17681-2: 2022,			
FTSi(OC2H5)3)) (CAS No.: 101947-16-4)	analysis was performed by GC/MS.)			
2H,2H,3H,3H-全氟癸酸及其鹽類	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(4HPFUnA and its salts) (2H,2H,3H,3H-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluoroundecanoic Acid and its salts	17681-1: 2022 & EN 17681-2: 2022,			
(4HPFUnA and its salts)) (CAS No.:	analysis was performed by LC/MS/MS.)			
34598-33-9 and its salts)				
1H,1H,2H-全氟-1-癸烯 (PFDE)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H-Heptadecafluoro-1-decene	·以氣相層析質譜儀分析。(Modified EN			
(PFDE)) (CAS No.: 21652-58-4)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
雙(1H,1H,2H,2H-全氟癸基)磷酸酯及其鹽	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
類 (8_2diPAP and its salts)	·以液相層析串聯質譜儀分析。(Modified EN			
(Bis(1H,1H,2H,2H-	17681-1: 2022 & EN 17681-2: 2022,			
Perfluorodecyl)phosphate and its salts	analysis was performed by LC/MS/MS.)			
(8_2diPAP and its salts)) (CAS No.: 678-				
41-1 and its salts)				



# **Test Report**

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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
C9-C20 PFCAs及其鹽類與相關化合物				
(C9-C20 PFCAs its salts and related				
compounds)				
1H,1H,2H,2H-全氟癸磺酸及其鹽類 (8:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
FTS and its salts) (1H,1H,2H,2H-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluorodecanesulfonic acid and its	17681-1: 2022 & EN 17681-2: 2022,			
salts (8:2 FTS and its salts)) (CAS No.:	analysis was performed by LC/MS/MS.)			
39108-34-4 and its salts)				
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluoro-1-decanol (8:2	·以氣相層析質譜儀及液相層析串聯質譜儀分			
FTOH)) (CAS No.: 678-39-7)	析。(Modified EN 17681-1: 2022 & EN			
	17681-2: 2022, analysis was performed by			
	GC/MS and LC/MS/MS.)			
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTA) (1H,1H,2H,2H-Perfluorodecyl	·以氣相層析質譜儀分析。(Modified EN			
acrylate (8:2 FTA)) (CAS No.: 27905-45-	17681-1: 2022 & EN 17681-2: 2022,			
9)	analysis was performed by GC/MS.)			
, , , ,	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTMA) (1H,1H,2H,2H-Perfluorodecyl	·以氣相層析質譜儀分析。(Modified EN			
methacrylate (8:2 FTMA)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
1996-88-9)	analysis was performed by GC/MS.)			
2H,2H-全氟癸酸及其鹽類 (H2PFDA and	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
its salts) (2H,2H-Perfluorodecane acid	·以液相層析串聯質譜儀分析。(Modified EN			
and its salts (H2PFDA and its salts))	17681-1: 2022 & EN 17681-2: 2022,			
(CAS No.: 27854-31-5 and its salts)	analysis was performed by LC/MS/MS.)			
1H,1H,2H,2H-全氟癸基碘 (8_2 FTI)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluorodecyl iodide	·以氣相層析質譜儀分析。(Modified EN			
(8_2 FTI)) (CAS No.: 2043-53-0)	17681-1: 2022 & EN 17681-2: 2022,			
N = 1 1 1 = = = 1 1 1 1 1 1 1 1 1 1 1 1	analysis was performed by GC/MS.)			<u> </u>
1H,1H,2H,2H-全氟十七烷三甲基氧矽烷(8:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTSi(OC2H5)3) (1H,1H,2H,2H-	·以氣相層析質譜儀分析。(Modified EN			
Perfluorodecyltriethoxysilane (8:2	17681-1: 2022 & EN 17681-2: 2022,			
FTSi(OC2H5)3)) (CAS No.: 101947-16-4)	analysis was performed by GC/MS.)			



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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.) 宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
2H,2H,3H,3H-全氟癸酸及其鹽類	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(4HPFUnA and its salts) (2H,2H,3H,3H-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluoroundecanoic Acid and its salts	17681-1: 2022 & EN 17681-2: 2022,			
(4HPFUnA and its salts)) (CAS No.:	analysis was performed by LC/MS/MS.)			
34598-33-9 and its salts)				
1H,1H,2H-全氟-1-癸烯 (PFDE)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H-Heptadecafluoro-1-decene	·以氣相層析質譜儀分析。(Modified EN			
(PFDE)) (CAS No.: 21652-58-4)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
雙(1H,1H,2H,2H-全氟癸基)磷酸酯及其鹽	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
類 (8_2diPAP and its salts)	·以液相層析串聯質譜儀分析。(Modified EN			
(Bis(1H,1H,2H,2H-	17681-1: 2022 & EN 17681-2: 2022,			
Perfluorodecyl)phosphate and its salts	analysis was performed by LC/MS/MS.)			
(8_2diPAP and its salts)) (CAS No.: 678-				
41-1 and its salts)				
全氟壬酸及其鹽類 (PFNA and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluorononan-1-oic acid and its salts	·以液相層析串聯質譜儀分析。(Modified EN			
(PFNA and its salts)) (CAS No.: 375-95-1	17681-1: 2022 & EN 17681-2: 2022,			
and its salts)	analysis was performed by LC/MS/MS.)			
全氟-3,7-二甲基辛酸 (PF-3,7-DMOA)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluoro-3,7-dimethyloctanoic Acid	·以液相層析串聯質譜儀分析。(Modified EN			
(PF-3,7-DMOA)) (CAS No.: 172155-07-	17681-1: 2022 & EN 17681-2: 2022,			
6)	analysis was performed by LC/MS/MS.)			
全氟癸酸及其鹽類 (PFDA and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluorodecane acid and its salts	·以液相層析串聯質譜儀分析。(Modified EN			
(PFDA and its salts)) (CAS No.: 335-76-2	17681-1: 2022 & EN 17681-2: 2022,			
and its salts)	analysis was performed by LC/MS/MS.)			
全氟十一烷酸及其鹽類 (PFUnDA and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts) (Perfluoroundecanoic acid and	·以液相層析串聯質譜儀分析。(Modified EN			
its salts (PFUnDA and its salts)) (CAS	17681-1: 2022 & EN 17681-2: 2022,			
No.: 2058-94-8 and its salts)	analysis was performed by LC/MS/MS.)			



# **Test Report**

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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

全無十二焼腿及其鹽類 (PFDoDA and its salts) (CAS No.: 307-55-1 and its salts) (Perfluorodoceane sulfonate and its salts) (Perfluorodecane sulfonate and its salts) (PFTDA and its salts) (CAS No.: 37-37-3 and its salts) (CAS No.: 37-3 and its salts) (CAS No.: 37-4 and its salts) (CAS No.: 37-5 and its salt	測試項目	測試方法	單位	MDL	結果
章無十二烷酸及其鹽類 (PFDoDA and its salts) (CAS No.: 307-55-1 and its salts) (CAS No.: 335-77-3 and its salts) (CAS No.: 3250-94-8 and its salts) (CAS No.: 72629-94-8 and its salts) (CAS No.: 376-67-3 and its salts) (CAS No.: 376-06-7 and its salts) (	(Test Items)	(Method)	(Unit)		(Result)
salts) (Perfluorododecanoic acid and its salts) (PFDoDA and its salts)) (CAS No.: analysis was performed by LC/MS/MS.) 全氟癸烷磺酸及具鹽類 (PFDS and its salts)) (CAS No.: aslts) (Perfluorodecane sulfonate and its salts (PFTDA and its salts)) (CAS No.: aslts) (Pentacosafluorotridecanoic acid and its salts) (Pentacosafluorotridecanoic acid and its salts) (PFTDA and its salts) (CAS No.: aslts) (Pentacosafluorotridecanoic acid and its salts) (PFTDA and its salts) (CAS No.: aslts) (Pentacosafluorotridecanoic acid and its salts) (PFTDA and its salts) (CAS No.: 17681-1: 2022 & EN 17681-2: 2022 analysis was performed by LC/MS/MS.) 全氟十四烷酸及具鹽類 (PFTDA and its salts) (CAS No.: 17681-1: 2022 & EN 17681-2: 2022 analysis was performed by LC/MS/MS.) 全氟十四烷酸及具鹽類 (PFTDA and its salts) (CAS No.: 17681-1: 2022 & EN 17681-2: 2022 analysis was performed by LC/MS/MS.)  中國大學 (DAS No.: 265-86-1) (CAS No.: 865-86-1) (CAS No.: 865-86-1) (CAS No.: 865-86-1) (EAS No.: 1741-60-5) (EAS No.: 1741-60-5) (EAS No.: 1741-60-5) (CAS No.: 1741-60-5) (EAS No.: 1741-60-5					No.1
Salts (PFDoDA and its salts) (CAS No.: 307-55-1 and its salts)	全氟十二烷酸及其鹽類 (PFDoDA and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
analysis was performed by LC/MS/MS.) 全無学院磺酸及其鹽類 (PFDS and its salts) (CAS No.: 335-77-3 and its salts) (CAS No.: 34ts) (Pentacosafluorotridecanoic acid and its salts (PFTrDA and its salts)) (CAS No.: 72629-94-8 and its salts) (CAS No.: 72629-94-8 and its salts) (CAS No.: 376-06-7 and its salts) (CAS No.: 376-	salts) (Perfluorododecanoic acid and its	,以液相層析串聯質譜儀分析。(Modified EN			
全無癸烷磺酸及其鹽類 (PFDS and its salts) (Perfluorodecane sulfonate and its salts (PFDS and its salts)) (CAS No.: 335-77-3 and its salts) (CAS No.: 335-77-3 and its salts) (PERFLOR And its salts) (Pentacosafluorotridecanoic acid and its salts (PFTDA and its salts) (CAS No.: 72629-94-8 and	salts (PFDoDA and its salts)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
salts) (Perfluorodecane sulfonate and its salts (PFDS and its salts) (CAS No.: 335-77-3 and its salts) (CAS No.: 335-77-3 and its salts) (Perfroha and its salts) (Perfroh					
17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	全氟癸烷磺酸及其鹽類 (PFDS and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
335-77-3 and its salts	salts) (Perfluorodecane sulfonate and	·以液相層析串聯質譜儀分析。(Modified EN			
全氣十三烷酸及其鹽類 (PFTrDA and its salts) (Pentacosafluorotridecanoic acid and its salts (PFTrDA and its salts) (CAS No.: 72629-94-8 and its salts) (CAS No.: 72629-94-8 and its salts) (Perfluorotetradecanoic acid and its salts) (Perfluorotetradecanoic acid and its salts) (Perfluorotetradecanoic acid and its salts) (PFTDA and its salts) (PERfluorotetradecanoic acid and its salts) (PFTDA and its salts) (CAS No.: 376-06-7 and its salts) (CAS No.: 376-06-7 and its salts) (PFTDA and its s	its salts (PFDS and its salts)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
salts) (Pentacosafluorotridecanoic acid and its salts (PFTrDA and its salts)) (CAS No.: 72629-94-8 and its salts) (CAS No.: 72629-94-8 and its salts) (Penfluorotetradecanoic acid and its salts) (Penfluorotetradecanoic acid and its salts) (Penfluorotetradecanoic acid and its salts (PFTDA and its salts)) (CAS No.: 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)  ### Pinch					
and its salts (PFTrDA and its salts)	全氟十三烷酸及其鹽類 (PFTrDA and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
No.: 72629-94-8 and its salts)	salts) (Pentacosafluorotridecanoic acid	·以液相層析串聯質譜儀分析。(Modified EN			
全氟十四烷酸及其鹽類 (PFTDA and its salts) (Perfluorotetradecanoic acid and its salts (PFTDA and its salts)) (CAS No.: 376-06-7 and its salts) (CAS No.: 376-06-7 and its salts) (Perfluorotetradecanoic acid and its salts) (PFTDA a	and its salts (PFTrDA and its salts)) (CAS	17681-1: 2022 & EN 17681-2: 2022,			
salts) (Perfluorotetradecanoic acid and its salts) (PFTDA and its salts) (CAS No.: 376-06-7 and its salts) (CAS No.: 39239-77-5)	No.: 72629-94-8 and its salts)				
its salts (PFTDA and its salts)) (CAS No.: 376-06-7 and its salts)	全氟十四烷酸及其鹽類 (PFTDA and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
376-06-7 and its salts)	salts) (Perfluorotetradecanoic acid and	·以液相層析串聯質譜儀分析。(Modified EN			
TH,1H,2H,2H-全氟-1-十二醇 (10:2	its salts (PFTDA and its salts)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
FTOH) (1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2FTOH)) (CAS No.: 865-86-1)  17681-2: 2022, analysis was performed by GC/MS and LC/MS/MS.)  1H,1H,2H,2H-全氟十二烷基丙烯酸酯 (修改EN 17681-1: 2022 & EN 17681-2: 2022 (10:2 FTA) (1H,1H,2H,2H- (10:2FTA)) (1H,1H,2H,2H- (10:2FTA)) (CAS No.: 17741-60-5) (10:2 FTMA) (1H,1H,2H,2H- (10:2 FTMA)) (CAS No.: 2144-54-9) (1H,1H,2H,2H- (10:2 FTOH) (1H,1H,2H,2H- (10:2 FTOH) (1H,1H,2H,2H- (10:2 FTOH) (1H,1H,2H,2H- (10:2 FTOH) (1H,1H,2H,2H- (10:2 FTOH)) (CAS No.: 39239-77-5) (17681-2: 2022, analysis was performed by GC/MS.) (17681-1: 2022 & EN 17681-2: 2022 (17681-2: 2022	376-06-7 and its salts)	analysis was performed by LC/MS/MS.)			
付いては、	1H,1H,2H,2H-全氟-1-十二醇 (10:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
86-1)	FTOH) (1H,1H,2H,2H-Perfluoro-1-	·以氣相層析質譜儀及液相層析串聯質譜儀分			
GC/MS and LC/MS/MS.)	dodecanol (10:2FTOH)) (CAS No.: 865-	析。(Modified EN 17681-1: 2022 & EN			
H,1H,2H,2H-全氟十二烷基丙烯酸酯 (10:2 FTA) (1H,1H,2H,2H-	86-1)	17681-2: 2022, analysis was performed by			
(10:2 FTA) (1H,1H,2H,2H-Perfluorododecylacrylate (10:2FTA))		GC/MS and LC/MS/MS.)			
Perfluorododecylacrylate (10:2FTA))	1H,1H,2H,2H-全氟十二烷基丙烯酸酯	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(CAS No.: 17741-60-5)analysis was performed by GC/MS.)mg/kg0.11H,1H,2H,2H-全氟十二烷基甲基丙烯酸酯 (6改EN 17681-1: 2022 & EN 17681-2: 2022 (10:2 FTMA) (1H,1H,2H,2H-以氣相層析質譜儀分析。(Modified ENmg/kg0.1Perfluorododecyl methacrylate (10:2 FTMA)) (CAS No.: 2144-54-9)17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.)mg/kg0.11H,1H,2H,2H-全氟十四烷基醇 (12:2 FTOH) (1H,1H,2H,2H- perfluorotetradecan-1-ol (12:2 FTOH))修改EN 17681-1: 2022 & EN 17681-2: 2022 mg/kgmg/kg0.1FTOH) (1H,1H,2H,2H- perfluorotetradecan-1-ol (12:2 FTOH))析。(Modified EN 17681-1: 2022 & EN (CAS No.: 39239-77-5)mg/kg0.1	(10:2 FTA) (1H,1H,2H,2H-	·以氣相層析質譜儀分析。(Modified EN			
1H,1H,2H,2H-全氟十二烷基甲基丙烯酸酯 (10:2 FTMA) (1H,1H,2H,2H- Perfluorododecyl methacrylate (10:2 FTMA)) (CAS No.: 2144-54-9)修改EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.)mg/kg0.1n.d.1H,1H,2H,2H-全氟十四烷基醇 (12:2 FTOH) (1H,1H,2H,2H- perfluorotetradecan-1-ol (12:2 FTOH)) (CAS No.: 39239-77-5)focus 17681-1: 2022 & EN 17681-2: 2022, 你Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed bymg/kg0.1n.d.	Perfluorododecylacrylate (10:2FTA))	17681-1: 2022 & EN 17681-2: 2022,			
(10:2 FTMA) (1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2	(CAS No.: 17741-60-5)	analysis was performed by GC/MS.)			
Perfluorododecyl methacrylate (10:2	1H,1H,2H,2H-全氟十二烷基甲基丙烯酸酯	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTMA)) (CAS No.: 2144-54-9)analysis was performed by GC/MS.)mg/kg1H,1H,2H,2H-全氟十四烷基醇 (12:2修改EN 17681-1: 2022 & EN 17681-2: 2022mg/kg0.1FTOH) (1H,1H,2H,2H- perfluorotetradecan-1-ol (12:2 FTOH)) (CAS No.: 39239-77-5)析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by	(10:2 FTMA) (1H,1H,2H,2H-	,以氣相層析質譜儀分析。(Modified EN			
1H,1H,2H,2H-全氟十四烷基醇 (12:2修改EN 17681-1: 2022 & EN 17681-2: 2022mg/kg0.1n.d.FTOH) (1H,1H,2H,2H- perfluorotetradecan-1-ol (12:2 FTOH))析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by17681-2: 2022, analysis was performed by0.1n.d.	Perfluorododecyl methacrylate (10:2	17681-1: 2022 & EN 17681-2: 2022,			
1H,1H,2H,2H-全氟十四烷基醇 (12:2修改EN 17681-1: 2022 & EN 17681-2: 2022mg/kg0.1n.d.FTOH) (1H,1H,2H,2H- perfluorotetradecan-1-ol (12:2 FTOH))析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by17681-2: 2022, analysis was performed by	FTMA)) (CAS No.: 2144-54-9)	analysis was performed by GC/MS.)			
perfluorotetradecan-1-ol (12:2 FTOH)) 析。(Modified EN 17681-1: 2022 & EN (CAS No.: 39239-77-5) 17681-2: 2022, analysis was performed by			mg/kg	0.1	n.d.
(CAS No.: 39239-77-5) 17681-2: 2022, analysis was performed by	FTOH) (1H,1H,2H,2H-	·以氣相層析質譜儀及液相層析串聯質譜儀分			
	perfluorotetradecan-1-ol (12:2 FTOH))	析。(Modified EN 17681-1: 2022 & EN			
	(CAS No.: 39239-77-5)	17681-2: 2022, analysis was performed by			
	·	, , , , , , , , , , , , , , , , , , , ,			



# **Test Report**

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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.) 宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
1H,1H,2H,2H-全氟十二烷磺酸及其鹽類	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(10:2 FTS and its salts) (1H,1H,2H,2H-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluorododecane sulfonic acid and its	17681-1: 2022 & EN 17681-2: 2022,			
salts (10:2 FTS and its salts)) (CAS No.:	analysis was performed by LC/MS/MS.)			
120226-60-0 and its salts)				
1H,1H,2H,2H-全氟十二烷基碘 (10:2 FTI)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluorododecyl iodide	,以氣相層析質譜儀分析。(Modified EN			
(10:2 FTI)) (CAS No.: 2043-54-1)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟十四烷基碘 (12:2 FTI)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluorotetradecyl	,以氣相層析質譜儀分析。(Modified EN			
iodide (12:2 FTI)) (CAS No.: 30046-31-2)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
全氟壬烷磺酸及其鹽類 (PFNS and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts) (Perfluorononane sulfonic acid	·以液相層析串聯質譜儀分析。(Modified EN			
and its salts (PFNS and its salts)) (CAS	17681-1: 2022 & EN 17681-2: 2022,			
No.: 68259-12-1 and its salts)	analysis was performed by LC/MS/MS.)			
全氟十一烷磺酸及其鹽類 (PFUnDS and	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
its salts) (Perfluoroundecane sulfonic	·以液相層析串聯質譜儀分析。(Modified EN			
acid and its salts (PFUnDS and its salts))	17681-1: 2022 & EN 17681-2: 2022,			
(CAS No.: 749786-16-1 and its salts)	analysis was performed by LC/MS/MS.)			
全氟十二烷磺酸及其鹽類 (PFDoDS and	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
its salts) (Perfluorododecane sulfonic	·以液相層析串聯質譜儀分析。(Modified EN			
acid and its salts (PFDoDS and its salts))	17681-1: 2022 & EN 17681-2: 2022,			
(CAS No.: 79780-39-5 and its salts)	analysis was performed by LC/MS/MS.)			
全氟十三烷磺酸及其鹽類 (PFTrDS and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts) (Perfluorotridecane sulfonic acid	·以液相層析串聯質譜儀分析。(Modified EN			
and its salts (PFTrDS and its salts)) (CAS	17681-1: 2022 & EN 17681-2: 2022,			
No.: 791563-89-8 and its salts)	analysis was performed by LC/MS/MS.)			
雙[2-(全氟癸基)乙基]磷酸鹽及其鹽類	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(10:2 diPAP and its salts) (10:2	·以液相層析串聯質譜儀分析。(Modified EN			
Fluortelomerphosphatediester and its	17681-1: 2022 & EN 17681-2: 2022,			
salts (10:2 diPAP and its salts)) (CAS	analysis was performed by LC/MS/MS.)			
No.: 1895-26-7 and its salts)				



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
全氟碘代十二烷 (PFDoDI)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(Perfluorododecyl iodide (PFDoDI))	·以氣相層析質譜儀分析。(Modified EN			
(CAS No.: 307-60-8)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
1-碘全氟癸烷 (PFDI) (Perfluorodecyl	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
iodide (PFDI)) (CAS No.: 423-62-1)	·以氣相層析質譜儀分析。(Modified EN			
	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
全氟十五烷酸及其鹽類 (PFPeDA and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
salts, C15) (Perfluoropentadecanoic	·以液相層析串聯質譜儀分析。(Modified EN			
acid and its salts (PFPeDA and its salts,	17681-1: 2022 & EN 17681-2: 2022,			
C15)) (CAS No.: 141074-63-7 and its	analysis was performed by LC/MS/MS.)			
salts)				
全氟十六烷酸及其鹽類 (PFHxDA and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts, C16) (Perfluorohexadecanoic acid	·以液相層析串聯質譜儀分析。(Modified EN			
and its salts (PFHxDA and its salts, C16))	17681-1: 2022 & EN 17681-2: 2022,			
(CAS No.: 67905-19-5 and its salts)	analysis was performed by LC/MS/MS.)			
全氟十八烷酸及其鹽類 (PFODA and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts, C18) (Perfluorooctadecanoic acid	·以液相層析串聯質譜儀分析。(Modified EN			
and its salts (PFODA and its salts, C18))	17681-1: 2022 & EN 17681-2: 2022,			
(CAS No.: 16517-11-6 and its salts)	analysis was performed by LC/MS/MS.)			
其他PFAS (Other PFAS)				
全氟丁酸及其鹽類 (PFBA and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluorobutane acid and its salts	·以液相層析串聯質譜儀分析。(Modified EN			
(PFBA and its salts)) (CAS No.: 375-22-4	17681-1: 2022 & EN 17681-2: 2022,			
and its salts)	analysis was performed by LC/MS/MS.)			
全氟丁磺酸及其鹽類 (PFBS and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	239
(Perfluorobutane sulfonate and its salts	·以液相層析串聯質譜儀分析。(Modified EN			
(PFBS and its salts)) (CAS No.: 375-73-5	17681-1: 2022 & EN 17681-2: 2022,			
and its salts)	analysis was performed by LC/MS/MS.)			
全氟丁磺醯胺 (Perfluorobutane sulfon	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
amides) (CAS No.: 30334-69-1)	·以液相層析串聯質譜儀分析。(Modified EN			
	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
N-(2-羥乙基)-N-甲基全氟丁烷磺醯胺	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(PFBS-NC3H8O) (1,1,2,2,3,3,4,4,4-	·以液相層析串聯質譜儀分析。(Modified EN			
nonafluoro-N-(2-hydroxyethyl)-N-	17681-1: 2022 & EN 17681-2: 2022,			
methylbutane-1-sulphonamide (PFBS-	analysis was performed by LC/MS/MS.)			
NC3H8O)) (CAS No.: 34454-97-2)				
1H,1H,2H,2H-甲基丙烯酸全氟己酯 (4:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTMA) (1H,1H,2H,2H-Perfluorohexyl	,以氣相層析質譜儀分析。(Modified EN	3 3		
methacrylate (4:2 FTMA)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
1799-84-4)	analysis was performed by GC/MS.)			
全氟戊酸及其鹽類 (PFPA and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluoropentane acid and its salts	,以液相層析串聯質譜儀分析。(Modified EN			
(PFPA and its salts)) (CAS No.: 2706-90-	17681-1: 2022 & EN 17681-2: 2022,			
3 and its salts)	analysis was performed by LC/MS/MS.)			
全氟庚酸及其鹽類 (PFHpA and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluoroheptane acid and its salts	·以液相層析串聯質譜儀分析。(Modified EN			
(PFHpA and its salts)) (CAS No.: 375-85-	17681-1: 2022 & EN 17681-2: 2022,			
9 and its salts)	analysis was performed by LC/MS/MS.)			
7H-十二氟庚酸及其鹽類 (HPFHpA and	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
its salts) (7H-Dodecanefluoroheptane	·以液相層析串聯質譜儀分析。(Modified EN			
acid and its salts (HPFHpA and its salts))	17681-1: 2022 & EN 17681-2: 2022,			
(CAS No.: 1546-95-8 and its salts)	analysis was performed by LC/MS/MS.)			
全氟庚基磺酸及其鹽類 (PFHpS and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts) (Perfluoroheptane sulfonate and	·以液相層析串聯質譜儀分析。(Modified EN			
its salts (PFHpS and its salts)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
375-92-8 and its salts)	analysis was performed by LC/MS/MS.)			
全氟-3-甲氧基丙酸 (PFMPA) (Perfluoro-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
3-methoxypropanoic acid (PFMPA))	·以液相層析串聯質譜儀分析。(Modified EN			
(CAS No.: 377-73-1)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
全氟 4-甲氧基丁酸 (PFMBA) (Perfluoro-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
4-methoxybutanoic acid (PFMBA)) (CAS				
No.: 863090-89-5)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
全氟-3,6-二氧雜庚酸 (NFDHA)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Nonafluoro-3,6-dioxaheptanoic acid	·以液相層析串聯質譜儀分析。(Modified EN			
(NFDHA)) (CAS No.: 151772-58-6)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
4,8-二氧雜-3H-全氟壬酸及其鹽類	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(ADONA and its salts) (4,8-Dioxa-3H-	·以液相層析串聯質譜儀分析。(Modified EN			
perfluorononanoic acid and its salts	17681-1: 2022 & EN 17681-2: 2022,			
(ADONA and its salts)) (CAS No.:	analysis was performed by LC/MS/MS.)			
919005-14-4 and its salts)				
1H,1H,2H,2H-全氟-1-己醇 (4:2 FTOH)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.4	n.d.
(1H,1H,2H,2H-Perfluoro-1-hexanol	,以氣相層析質譜儀及液相層析串聯質譜儀分			
(4:2FTOH)) (CAS No.: 2043-47-2)	析。(Modified EN 17681-1: 2022 & EN			
	17681-2: 2022, analysis was performed by			
	GC/MS and LC/MS/MS.)			
2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其鹽類		mg/kg	0.01	n.d.
(HFPO-DA and its salts) (2,3,3,3-	·以液相層析串聯質譜儀分析。(Modified EN			
tetrafluoro-2-	17681-1: 2022 & EN 17681-2: 2022,			
(heptafluoropropoxy)propionic acide	analysis was performed by LC/MS/MS.)			
and its salts (HFPO-DA and its salts))				
(CAS No.: 13252-13-6 and its salts)				
1H,1H,2H,2H-全氟己磺酸及其鹽類 (4:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
FTS and its salts) (1H,1H,2H,2H-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluorohexanesulfonic acid and its	17681-1: 2022 & EN 17681-2: 2022,			
salts (4:2 FTS and its salts)) (CAS No.:	analysis was performed by LC/MS/MS.)			
757124-72-4 and its salts)				
全氟辛烷磺酰胺乙酸及其鹽類 (FOSAA	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
and its salts) (Perfluorooctane	·以液相層析串聯質譜儀分析。(Modified EN			
sulfonamidoacetic acid and its salts	17681-1: 2022 & EN 17681-2: 2022,			
(FOSAA and its salts)) (CAS No.: 2806-	analysis was performed by LC/MS/MS.)			
24-8 and its salts)				



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
N-甲基全氟辛烷磺酰胺乙酸及其鹽類 (N-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
MeFOSAA and its salts) (N-	,以液相層析串聯質譜儀分析。(Modified EN			
methylperfluorooctane	17681-1: 2022 & EN 17681-2: 2022,			
sulfonamidoacetic acid and its salts (N-	analysis was performed by LC/MS/MS.)			
MeFOSAA and its salts)) (CAS No.:				
2355-31-9 and its salts)				
N-乙基全氟辛烷磺酰胺乙酸及其鹽類 (N-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
EtFOSAA and its salts) (N-	·以液相層析串聯質譜儀分析。(Modified EN			
ethylperfluorooctane	17681-1: 2022 & EN 17681-2: 2022,			
sulfonamidoacetic acid and its salts (N-	analysis was performed by LC/MS/MS.)			
EtFOSAA and its salts)) (CAS No.: 2991-				
50-6 and its salts)				
全氟戊磺酸及其鹽類 (PFPeS and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluoropentane sulfonic acid and its	,以液相層析串聯質譜儀分析。(Modified EN			
salts (PFPeS and its salts)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
2706-91-4 and its salts)	analysis was performed by LC/MS/MS.)			
3-全氟丙基丙酸 (3:3 FTCA) (3-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
Perfluoropropyl propanoic acid (3:3	·以液相層析串聯質譜儀分析。(Modified EN			
FTCA)) (CAS No.: 356-02-5)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
2-全氟己基乙酸 (6:2 FTCA) (2-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
Perfluorohexyl ethanoic acid (6:2	·以液相層析串聯質譜儀分析。(Modified EN			
FTCA)) (CAS No.: 53826-12-3)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
3-全氟戊基丙酸 (5:3 FTCA) (3-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
Perfluoropentyl propanoic acid (5:3	·以液相層析串聯質譜儀分析。(Modified EN			
FTCA)) (CAS No.: 914637-49-3)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
全氟(2-乙氧基乙烷)磺酸 (PFEESA)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(Perfluoro(2-ethoxyethane)sulfonic	,以液相層析串聯質譜儀分析。(Modified EN			
acid (PFEESA)) (CAS No.: 113507-82-7)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
9-氯十六氟-3-氧雜壬烷-1-磺酸及其鹽類	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
(9CI-PF3ONS and its salts) (9-	·以液相層析串聯質譜儀分析。(Modified EN			
Chlorohexadecafluoro-3-oxanonane-	17681-1: 2022 & EN 17681-2: 2022,			
1-sulfonic acid and its salts (9Cl-	analysis was performed by LC/MS/MS.)			
PF3ONS and its salts)) (CAS No.:				
756426-58-1 and its salts)				
11-氯二十氟-3-氧雜十一烷-1-磺酸及其鹽	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
類 (11Cl-PF3OUdS and its salts) (11-	·以液相層析串聯質譜儀分析。(Modified EN			
Chloroeicosafluoro-3-oxaundecane-1-	17681-1: 2022 & EN 17681-2: 2022,			
sulfonic acid and its salts (11Cl-	analysis was performed by LC/MS/MS.)			
PF3OUdS and its salts)) (CAS No.:				
763051-92-9 and its salts)				
2-(N-乙基全氟辛烷磺醯胺基)丙烯酸乙酯	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(EtFOSAC) (2-(N-	·以氣相層析質譜儀分析。(Modified EN			
ethylperfluorooctanesulfamido)ethyl	17681-1: 2022 & EN 17681-2: 2022,			
acrylate (EtFOSAC)) (CAS No.: 423-82-	analysis was performed by GC/MS.)			
5)				
全氟辛基三乙氧基矽烷 (POTS)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(Perfluorooctyl triethoxysilane (POTS))	·以氣相層析質譜儀分析。(Modified EN			
(CAS No.: 51851-37-7)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
11H-全氟十一烷酸及其鹽類 (11H-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
PFUnDA and its salts) (11H-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluoroundecanoic acid and its salts	17681-1: 2022 & EN 17681-2: 2022,			
(11H-PFUnDA and its salts)) (CAS No.:	analysis was performed by LC/MS/MS.)			
1765-48-6 and its salts)				
五氟丙酸及其鹽類 (PFPrA and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(Pentafluoropropionate acid and its	·以液相層析串聯質譜儀分析。(Modified EN			
salts (PFPrA and its salts)) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
422-64-0 and its salts)	analysis was performed by LC/MS/MS.)			



# **Test Report**

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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.) 宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
1H,1H,2H,2H-全氟癸基三氯矽烷	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-	,以氣相層析質譜儀分析。(Modified EN			
Perfluorodecyltrichlorosilane) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
78560-44-8)	analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟癸基三甲氧基矽烷	修改EN 17681-1: 2022 & EN 17681-2: 2022			
(1H,1H,2H,2H-	,以氣相層析質譜儀分析。(Modified EN			
Perfluorodecyltrimethoxysilane) (CAS	17681-1: 2022 & EN 17681-2: 2022,			
No.: 83048-65-1)	analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟辛基三氯矽烷	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-	,以氣相層析質譜儀分析。(Modified EN			
Perfluorooctyltrichlorosilane) (CAS No.:	17681-1: 2022 & EN 17681-2: 2022,			
78560-45-9)	analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟癸基甲基二氯矽烷	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-	,以氣相層析質譜儀分析。(Modified EN			
Perfluorodecylmethyldichlorosilane)	17681-1: 2022 & EN 17681-2: 2022,			
(CAS No.: 3102-79-2)	analysis was performed by GC/MS.)			
2H-全氟-2-癸烯酸 (8:2 FTUCA) (2H-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
Perfluoro-2-decenoic acid (8:2 FTUCA))	·以液相層析串聯質譜儀分析。(Modified EN			
(CAS No.: 70887-84-2)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
2H-全氟-2-辛烯酸 (6:2 FTUCA) (2H-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
Perfluoro-2-octenoic acid (6:2 FTUCA))	·以液相層析串聯質譜儀分析。(Modified EN			
(CAS No.: 70887-88-6)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
2H-全氟-2-十二烯酸 (10:2 FTUCA) (2H-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
Perfluoro-2-dodecenoic acid (10:2	·以液相層析串聯質譜儀分析。(Modified EN			
FTUCA)) (CAS No.: 70887-94-4)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
2-全氟癸基乙酸 (10:2 FTCA) (2-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
Perfluorodecyl ethanoic acid (10:2	·以液相層析串聯質譜儀分析。(Modified EN			
FTCA)) (CAS No.: 53826-13-4)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			



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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.) 宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
6:6 全氟次磷酸及其鹽類 (6:6 PFPi and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts) (6:6 Perfluorophosphinic acid and	,以液相層析串聯質譜儀分析。(Modified EN			
its salts (6:6 PFPi and its salts)) (CAS	17681-1: 2022 & EN 17681-2: 2022,			
No.: 40143-77-9 and its salts)	analysis was performed by LC/MS/MS.)			
6:8全氟次磷酸 (6:8 PFPi) (6:8	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
Perfluorophosphinic acid (6:8 PFPi))	·以液相層析串聯質譜儀分析。(Modified EN			
(CAS No.: 610800-34-5)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
8:8全氟次磷酸及其鹽類 (8:8 PFPi and its	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.01	n.d.
salts) (8:8 Perfluorophosphinic acid and	·以液相層析串聯質譜儀分析。(Modified EN			
its salts (8:8 PFPi and its salts)) (CAS	17681-1: 2022 & EN 17681-2: 2022,			
No.: 40143-79-1 and its salts)	analysis was performed by LC/MS/MS.)			
2-全氟辛基乙基乙酸酯 (8:2 FTOAc)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Heptadecafluorodecyl	,以氣相層析質譜儀分析。(Modified EN			
acetate (8:2 FTOAc)) (CAS No.: 37858-	17681-1: 2022 & EN 17681-2: 2022,			
04-1)	analysis was performed by GC/MS.)			
單[2-(全氟乙烷)乙基]磷酸鹽及其鹽類 (6:2		mg/kg	0.1	n.d.
monoPAP and its salts) (Mono[2-	·以液相層析串聯質譜儀分析。(Modified EN			
(perfluorohexyl)ethyl] Phosphate and	17681-1: 2022 & EN 17681-2: 2022,			
its salts (6:2 monoPAP and its salts))	analysis was performed by LC/MS/MS.)			
(CAS No.: 57678-01-0 and its salts)				
單-[2-(全氟辛基)乙烷]磷酸酯及其鹽類	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(8:2 monoPAP and its salts) (Mono-[2-	,以液相層析串聯質譜儀分析。(Modified EN			
(perfluorooctyl)ethyl]phosphate and its	17681-1: 2022 & EN 17681-2: 2022,			
salts (8:2 monoPAP and its salts)) (CAS	analysis was performed by LC/MS/MS.)			
No.: 57678-03-2 and its salts)	_			
2-碘-1H,1H,1H,2H,3H,3H-全氟壬烷 (2-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
lodo-1H,1H,1H,2H,3H,3H-	·以氣相層析質譜儀分析。(Modified EN	5 5		
perfluorononane) (CAS No.: 38550-34-	17681-1: 2022 & EN 17681-2: 2022,			
4)	analysis was performed by GC/MS.)			



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
N-[3-(二甲基氨基)丙基]-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基磺醯	,以液相層析串聯質譜儀分析。(Modified EN			
胺N-氧化物 (N-[3-	17681-1: 2022 & EN 17681-2: 2022,			
(dimethylamino)propyl]-	analysis was performed by LC/MS/MS.)			
3,3,4,4,5,5,6,6,7,7,8,8,8-				
tridecafluorooctanesulphonamide N-				
oxide) (CAS No.: 80475-32-7)				
硫氰酸, 3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
酯 (Thiocyanic acid,	,以氣相層析質譜儀分析。(Modified EN			
3,3,4,4,5,5,6,6,7,7,8,8,8-	17681-1: 2022 & EN 17681-2: 2022,			
tridecafluorooctyl ester) (CAS No.:	analysis was performed by GC/MS.)			
26650-09-9)				
2H,2H,3H,3H-全氟壬酸 (6:3 FTCA)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
(2H,2H,3H,3H-Perfluorononanoic acid	·以液相層析串聯質譜儀分析。(Modified EN			
(6:3 FTCA)) (CAS No.: 27854-30-4)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by LC/MS/MS.)			
1H,1H,2H,2H-全氟辛硫醇(6:2 FTSH)	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
(1H,1H,2H,2H-Perfluorooctanethiol (6:2	·以氣相層析質譜儀分析。(Modified EN			
FTSH)) (CAS No.: 34451-26-8)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
FTSiMe2Cl) (1H,1H,2H,2H-	,以氣相層析質譜儀分析。(Modified EN			
Perfluorooctyldimethylchlorosilane (6:2	17681-1: 2022 & EN 17681-2: 2022,			
FTSiMe2Cl)) (CAS No.: 102488-47-1)	analysis was performed by GC/MS.)			
1-碘-1H,1H-全氟庚烷 (6:1 FTI) (1-lodo-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
1H,1H-Perfluoroheptane (6:1 FTI)) (CAS	·以氣相層析質譜儀分析。(Modified EN			
No.: 212563-43-4)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
1H,1H,2H,2H,3H,3H-全氟壬基碘化物	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
(6:3 FTI) (3-(Perfluorohexyl)propyl	·以氣相層析質譜儀分析。(Modified EN			
iodide (6:3 FTI)) (CAS No.: 89889-20-3)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			

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新北市五股區新北產業園區五權七路 25 號 t+886(02)2299 3939 f+886(02)2299 3237 25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan



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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.) 宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
1H,1H,2H,2H-全氟辛烷磷酸及其鹽類 (6:2	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.1	n.d.
FTPA and its salts) (1H,1H,2H,2H-	·以液相層析串聯質譜儀分析。(Modified EN			
Perfluorooctanephosphonic acid and	17681-1: 2022 & EN 17681-2: 2022,			
its salts (6:2 FTPA and its salts)) (CAS	analysis was performed by LC/MS/MS.)			
No.: 252237-40-4 and its salts)				
十一氟正己烷-1-醇 (5:1 FTOH) (1H,1H-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
perfluorohexan-1-ol (5:1 FTOH)) (CAS	·以氣相層析質譜儀及液相層析串聯質譜儀分			
No.: 423-46-1)	析。(Modified EN 17681-1: 2022 & EN			
	17681-2: 2022, analysis was performed by			
	GC/MS and LC/MS/MS.)			
全氟-1-庚醇 (6:1 FTOH) (1H,1H-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
perfluoro-1-heptanol (6:1 FTOH)) (CAS	·以氣相層析質譜儀及液相層析串聯質譜儀分			
No.: 375-82-6)	析。(Modified EN 17681-1: 2022 & EN			
	17681-2: 2022, analysis was performed by			
	GC/MS and LC/MS/MS.)			
3-全氟己基丙醇 (6:3 FTOH) (3-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
(perfluorohexyl)propanol (6:3 FTOH))	·以氣相層析質譜儀分析。(Modified EN			
(CAS No.: 80806-68-4)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
3,3,4,4,5,5,6,6,7,7,7-十一氟-2-庚醇	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
(3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-	·以氣相層析質譜儀及液相層析串聯質譜儀分			
heptanol) (CAS No.: 914637-05-1)	析。(Modified EN 17681-1: 2022 & EN			
	17681-2: 2022, analysis was performed by			
	GC/MS and LC/MS/MS.)			
全氟己基辛烷 (1-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
(perfluorohexyl)octane) (CAS No.:	·以氣相層析質譜儀分析。(Modified EN			
133331-77-8)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
1H,1H-全氟庚基胺 (6:1 FTNH2) (1H,1H-	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	0.2	n.d.
Perfluoroheptylamine (6:1 FTNH2))	,以氣相層析質譜儀分析。(Modified EN			
(CAS No.: 423-49-4)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			



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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.) 宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1
1-十二烷醇, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12 ,12-二十二碳氟-, 1 -醋酸鹽 (10:2 FTOAc) (1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12 ,12-heneicosafluoro-, 1-acetate (10:2 FTOAc)) (CAS No.: 37858-05-2)	修改EN 17681-1: 2022 & EN 17681-2: 2022 ·以氣相層析質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.
全氟-2,5-二甲基-3,6-二氧雜壬酸及其鹽類 (HFPO-TA and its salts) (Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid and its salts (HFPO-TA and its salts)) (CAS No.: 13252-14-7 and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	mg/kg	0.2	n.d.
五氟乙烷磺酸 (PFEtS) (Pentafluoroethane sulfonic acid (PFEtS)) (CAS No.: 354-88-1)	修改EN 17681-1: 2022 & EN 17681-2: 2022 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
雙[2 - (全氟己基)乙基]磷酸鹽及其鹽類 (6:2 diPAP and its salts) (Bis[2-(perfluorohexyl)ethyl] Phosphate and its salts (6:2 diPAP and its salts)) (CAS No.: 57677-95-9 and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022 ·以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
雙三氟甲烷磺酰亞胺及其鹽類 (TFSI and its salts) (Trifluoromethanesulfonimide and its salts (TFSI and its salts)) (CAS No.: 82113-65-3 and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022 ·以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
乙基九氟丁基及其異構體 (Ethyl perfluoroisobutyl ether and its isomers) (CAS No.: 163702-05-4 and others)	修改EN 17681-1: 2022 & EN 17681-2: 2022 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.)	mg/kg	10	n.d.
1,1,1,2,2,3,4,5,5,5-十氟戊烷 (1,1,1,2,2,3,4,5,5,5,-decafluoro- Pentane) (CAS No.: 138495-42-8)	修改EN 17681-1: 2022 & EN 17681-2: 2022 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.)	mg/kg	10	n.d.

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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
三氟甲苯 (Trifluorotoluene) (CAS No.:	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	1	n.d.
98-08-8)	·以氣相層析質譜儀分析。(Modified EN			
	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			
對氯三氟甲苯 (1-Chloro-4	修改EN 17681-1: 2022 & EN 17681-2: 2022	mg/kg	1	n.d.
(Trifluoromethyl)Benzene) (CAS No.:	·以氣相層析質譜儀分析。(Modified EN			
98-56-6)	17681-1: 2022 & EN 17681-2: 2022,			
	analysis was performed by GC/MS.)			

#### 備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL



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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.) 宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

#### Remark:

現有PFAS定量技術是分析PFAS物質的特定結構,但同碳數族群之PFAS酸及鹽類物質,其可被辨識的特定結構相同,因此無法區別所分析的特定結構是來自酸或者鹽類,故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中,相關資訊請參見下表:(下表列舉PFAS物質僅為範例,並不包含所有同碳數族群之PFAS鹽類。) (The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	全氟丁酸 (Perfluorobutane acid) (PFBA)	375-22-4
	全氟丁酸銨 (PFBA-NH <sub>4</sub> )	10495-86-0
	Ammonium perfluorobutanoate (PFBA-NH <sub>4</sub> )	
	全氟丁酸鈉 (PFBA-Na)	2218-54-4
	Sodium perfluorobutanoate (PFBA-Na)	
	全氟丁酸鉀 (PFBA-K)	2966-54-3
	Potassium heptafluorobutanoate (PFBA-K)	
PFBA, 及其鹽	全氟丁酸銀 (PFBA-Ag)	3794-64-7
(PFBA, its salts)	Silver perfluorobutanoate (PFBA-Ag)	
	全氟丁酸鋰 (PFBA-Li)	4146-76-3
	Lithium perfluorobutanoate (PFBA-Li)	
	全氟丁酸哌嗪 (1:1)	375-04-2
	Heptafluorobutanoic acid-piperazine (1:1)	
	全氟丁酸鹽	45048-62-2
	Perfluorobutanoate (anion)	
	全氟丁磺酸 (Perfluorobutane sulfonate) (PFBS)	375-73-5
	全氟丁基磺酸鈉 (PFBS-Na)	60453-92-1
	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, sodium salt (1:1)	
	(PFBS-Na)	
PFBS, 及其鹽&衍生物	全氟丁基磺酸鋰 (PFBS-Li)	131651-65-5
(PFBS, its salts & derivatives)	Lithium perfluorobutanesulfonate (PFBS-Li)	
	全氟丁基磺酸鎂 (PFBS-Mg)	507453-86-3
	Magnesium perfluorobutanesulfonate (PFBS-Mg)	
	全氟丁基磺酸鉀 (PFBS-K)	29420-49-3
	Perfluorobutane Sulfonate K-salt (PFBS-K)	



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	全氟丁基磺酸氟 (PFBS-F) Perfluorobutane sulfonyl fluoride (PFBS-F)	375-72-4
	全氟丁基磺酸四乙基銨 (PFBS-N(CH <sub>3</sub> CH <sub>2</sub> ) <sub>4</sub> ) Tetraethylammonium perfluorobutanesulfonate (PFBS-N(CH <sub>3</sub> CH <sub>2</sub> ) <sub>4</sub> )	25628-08-4
	全氟丁基磺酸三苯基鋶 (TPS-PFBS) Triphenylsulfanium perfluorobutane sulfonate (TPS-PFBS)	144317-44-2
	全氟丁基磺酸二甲基(苯基)硫 Dimethyl(phenyl)sulfanium perfluorobutane sulfonate	220133-51-7
	全氟丁基磺酸四丁基磷 Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate	220689-12-3
	全氟丁基磺酸嗎啉 Morpholinium perfluorobutanesulfonate	503155-89-3
	全氟丁基磺酸銨 (PFBS-NH <sub>4</sub> ) Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH <sub>4</sub> )	68259-10-9
PFBS, 及其鹽&衍生物	全氟丁基磺酸水合物 Nonafluorobutanesulfonic acidHydrate	59933-66-3
(PFBS, its salts & derivatives)	全氟丁基磺酸氯 (PFBS-CI) Nonafluoro-1-butanesulfonyl chloride (PFBS-CI)	2991-84-6
	全氟-1-丁磺酸雙(4-叔丁基苯基)碘鎓 (PFBS-I( $C_6H_4$ ) $_2$ ( $C_4H_9$ ) $_2$ ) Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I( $C_6H_4$ ) $_2$ ( $C_4H_9$ ) $_2$ )	194999-85-4
	$1,1,2,2,3,4,4,4$ —氟丁烷- $1$ -磺酸與 $2,2$ 亞氨基二乙醇的化合物 (1:1) (PFBS-NH( $C_2H_5O$ ) $_2$ ) $1,1,2,2,3,3,4,4,4$ -nonafluorobutane- $1$ -sulphonic acid, compound with $2,2$ '-iminodiethanol (1:1) (PFBS-NH( $C_2H_5O$ ) $_2$ )	70225-18-2
	1-(4-丁氧基-1-萘基)四氫噻吩九氟丁烷-1-磺酸鹽 (PFBS-SC <sub>18</sub> H <sub>23</sub> O) 1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane- 1-sulfonate (PFBS-SC <sub>18</sub> H <sub>23</sub> O)	209482-18-8
	全氟丁基磺酸四丁基銨 ((PFBS-N( $C_4H_9$ ) $_4$ )) Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N( $C_4H_9$ ) $_4$ ))	108427-52-7
	全氟丁基磺酸二苯碘 ((PFBS-I( $C_6H_5$ ) <sub>2</sub> )) Diphenyliodanium nonafluorobutane-1-sulfonate((PFBS-I( $C_6H_5$ ) <sub>2</sub> ))	194999-82-1



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	全氟丁基磺酸三(4-叔丁基苯基)鍺 Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro- 1-butanesulfonate (1:1)	241806-75-7
	全氟丁基磺酸(4-環己基苯基)(二苯基)鍺 Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1- butanesulfonate (1:1)	425670-64-0
	全氟丁基磺酸1-(1-甲基-1H-吲哚-3-基)硫醇-1-鎓 Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4- nonafluoro-1-butanesulfonate (1:1)	867373-18-0
	全氟丁基磺酸1-乙基-3-甲基吡啶鎓 Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1- butanesulfonate (1:1)	1015420-87-7
	全氟丁基磺酸1-甲基-3-辛基咪唑鎓 1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1- butanesulfonate (1:1)	905972-83-0
PFBS, 及其鹽&衍生物	全氟丁基磺酸1-己基-3-甲基咪唑鎓 1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1- butanesulfonate (1:1)	1001557-05-6
(PFBS, its salts & derivatives)	全氟丁基磺酸N,N-二甲基-N-(丙-2-基)丙-2-胺 2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4- nonafluoro-1-butanesulfonate (1:1)	374571-81-0
	全氟丁基磺酸[4-(2-叔丁氧基-2-氧代乙氧基)苯基](二苯基) (1:1) Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,3,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	857285-80-4
	全氟丁基磺酸N,N-二丁基-N-甲基丁烷-1-胺 (1:1) 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	124472-66-8
	全氟丁基磺酸鋅 (2:1) (PFBS-Zn) 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4
	全氟丁基磺酸N,N,N-三丙基戊烷 (1:1) 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1- butanesulfonate (1:1)	56773-55-8
	全氟丁基磺酸四甲基銨鹽 (PFBS-N(CH <sub>3</sub> ) <sub>4</sub> ) Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH <sub>3</sub> ) <sub>4</sub> )	25628-17-5



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	全氟丁烷磺酸酐 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4
	全氟丁基磺酸鹽 Perfluorobutane sulfonate (anion)	45187-15-3
	1-(4-丁氧基-1-萘基)四氫噻吩鎓-1,1,2,2,3,3,4,4,4-九氟-1-丁磺酸鹽 1-(4-butoxy-1-naphthalenyl)tetrahydrothiophenium - 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate	EC No. 468-770-4
	1-丁磺酸·1,1,2,2,3,3,4,4,4-九氟-化合物與 N,N-二乙基乙胺 (1:1) 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, compd. with N,N-diethylethanamine (1:1)	182059-38-7
PFBS, 及其鹽&衍生物 (PFBS, its salts & derivatives)	1-辛銨·N-(2-羥乙基)-N,N-二甲基-與1,1,2,2,3,3,4,4,4-九氟-1-丁磺酸鹽 (1:1) 1-Octanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	334529-55-4
	1-十六烷基-1,1,2,2,3,3,4,4,4-九氟-1-丁磺酸吡啶鎓 (1:1) Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1- butanesulfonate (1:1)	334529-62-3
	1-丁基-1,1,2,2,3,3,4,4,4-九氟-1-丁磺酸吡啶鎓鹽 (1:1) Pyridinium, 1-butyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	334529-64-5
	1-辛胺·N-甲基-N,N-二辛基-·1,1,2,2,3,3,4,4,4-九氟-1-丁磺酸鹽 (1:1) 1-Octanaminium, N-methyl-N,N-dioctyl-, 1,1,2,2,3,3,4,4,4- nonafluoro-1-butanesulfonate (1:1)	495417-51-1
	三(4-甲基苯基)鍺全氟丁磺酸鹽 Sulfonium, tris(4-methylphenyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1- butanesulfonate (1:1)	722538-68-3
	全氟戊酸 (Perfluoropentane acid) (PFPA)	2706-90-3
	全氟戊酸鈉 (PFPA-Na) Sodium perfluoropentanoate (PFPA-Na)	2706-89-0
PFPA, 及其鹽 (PFPA, its salts)	全氟戊酸鉀 (PFPA-K) Potasium perfluoropentanoate (PFPA-K)	336-23-2
	全氟戊酸銨 (PFPA-NH <sub>4</sub> ) Ammonium perfluoropentanoate (PFPA-NH <sub>4</sub> )	68259-11-0
	全氟戊酸鋰 (PFPA-Li) Lithium perfluoropentanoate (PFPA-Li)	198482-22-3
	全氟戊酸銀 (PFPA-Ag) Silver perfluoropentanoate (PFPA-Ag)	2795-30-4



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	全氟戊酸鹽 Perfluoropentanoate (anion)	45167-47-3
PFPA, 及其鹽 (PFPA, its salts)	全氟戊酸與苯甲基硫代氨基甲酸酯 (1:1) (PFPeA- $C_8H_{10}N_2S$ ) Pentanoic acid, 2,2,3,3,4,4,5,5,5-nonafluoro-, compd. with phenylmethyl carbamimidothioate (1:1) (PFPeA- $C_8H_{10}N_2S$ )	64808-55-5
	全氟戊酸酐 (PFPeAA) Nonafluoropentanoic anhydrid (PFPeAA)	308-28-1
	全氟已酸 (Perfluorohexane acid) (PFHxA)	307-24-4
	全氟已酸銨 (PFHxA-NH <sub>4</sub> ) Ammonium perfluorohexanoate (PFHxA-NH <sub>4</sub> )	21615-47-4
	全氟已酸鈉 (PFHxA-Na) Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4
	全氟已酸鉀 (PFHxA-K) Potassium perfluorohexanoate (PFHxA-K)	3109-94-2
	全氟己酸氟 (PFHxA-F) Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
	全氟己酸銀 (PFHxA-Ag) Silver perfluorohexanoate (PFHxA-Ag)	336-02-7
	全氟己酸鋰 (PFHxA-Li) Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
PFHxA, 及其鹽&衍生物 (PFHxA, its salts & derivatives)	全氟己酸酐 Perfluorohexanoic anhydride	308-13-4
	全氟己酸哌嗪 (2:1) Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8CI,9CI)	423-47-2
	全氟己酸鹽 Perfluorohexanoate (anion)	92612-52-7
	全氟己酰氯 (PFHxA-Cl) Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5
	全氟已酸與 $1$ -己胺 ( $1:1$ ) (PFHxA- $C_6H_{15}N$ ) Hexanoic acid, $2,2,3,3,4,4,5,5,6,6,6$ -undecafluoro-, compd. with $1$ -hexanamine ( $1:1$ ) (PFHxA- $C_6H_{15}N$ )	565225-91-4
	全氟已酸與 $1$ -苯基哌嗪 (1:1) (PFHxA- $C_{10}H_{14}N_2$ ) Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-, compd. with 1-phenylpiperazine (1:1) (PFHxA- $C_{10}H_{14}N_2$ )	985-60-4



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	1H,1H,2H,2H-全氟辛磺酸 (1H,1H,2H,2H-Perfluorooctanesulphonic acid) (6:2 FTS)	27619-97-2
	1H, 1H, 2H, 2H-全氟辛烷磺酸鈉 (6:2 FTS-Na) Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9
	1H, 1H, 2H, 2H-全氟辛烷磺酸鉀 (6:2 FTS-K) Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1
6:2 FTS, 及其鹽 (6:2 FTS, its salts)	1H, 1H, 2H, 2H-全氟辛烷磺酸銨 (6:2 FTS-NH <sub>4</sub> ) Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH <sub>4</sub> )	59587-39-2
	1H, 1H, 2H, 2H-全氟辛烷磺酸銨鋇 (6:2 FTS-Ba) 1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, barium salt (2:1) (6:2 FTS-Ba)	1807944-82-6
	1H,1H,2H,2H-全氟辛磺酸鹽 (6:2 FTS(anion)) 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-sulfonate (6:2 FTS(anion))	425670-75-3
	全氟己基磺酸 (Perfluorohexane sulfonate) (PFHxS)	355-46-4
	全氟己基磺酸鈉 (PFHxS-Na) Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5
	全氟己基磺酸鉀 (PFHxS-K) Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6
	全氟己基磺酸銨 (PFHxS-NH <sub>4</sub> ) Ammonium perfluorohexanesulfonate (PFHxS-NH <sub>4</sub> )	68259-08-5
	全氟己基磺酸鋰 (PFHxS-Li) Perfluorohexanesulfonate Li-salt (PFHxS-Li)	55120-77-9
PFHxS, 及其鹽&衍生物 (PFHxS, its salts & derivatives)	全氟己基磺酸鋅 (PFHxS-Zn) Perfluorohexanesulfonate Zn-salt (PFHxS-Zn)	70136-72-0
	全氟己基磺醯氟 (PFHxS-F) Perfluorohexanesulfonate sulfonyl fluoride (PFHxS-F)	423-50-7
	三苯基(苯甲基)磷-, 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1000597-52-3
	N,N,N-三丁基-1-丁銨與十三氟-1-己烷磺酸的鹽 N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-54-9
	N,N,N-三乙基乙銨與十三氟-1-己烷磺酸的鹽 (1:1) N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate (1:1)	108427-55-0



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸與吡咯烷的化合物 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1)	1187817-57-7
	N-[4-[[4-(二乙基氨基)苯基][4-(乙基氨基)-1-萘基]亞甲基]-2,5-環己二-1-基]-N-乙基乙銨,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) 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)	1310480-24-0
	N-[4-[[4-(二甲基氨基)苯基][4-(乙基氨基)-1-萘基]亞甲基]-2,5-環己二-1-基]-N-甲基甲銨,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) 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)	1310480-27-3
PFHxS, 及其鹽&衍生物 (PFHxS, its salts & derivatives)	N-[4-[[4-(二甲基氨基)苯基][4-(苯基氨基)-1-萘基]亞甲基]-2,5-環己二-1-基]-N-甲基甲銨,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) 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)	1310480-28-4
(FITIXS, its saits & derivatives)	β-環糊精, 與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸離子(1-)的化合物(1:1) 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)	1329995-45-0
	γ-環糊精, 與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸離子(1-)的化合物(1:1) 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)	1329995-69-8
	三苯基锍,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	144116-10-9
	喹啉鎓,1-(羧甲基)-4-[2-[4-[4-(2,2-二苯基乙烯基)苯基]-1,2,3,3a,4,8b-六 氫環戊[b]吲哚-7-基]乙烯基]-,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸 鹽 (1:1) 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)	1462414-59-0



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宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	二苯基碘鎓,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) lodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	153443-35-7
	N,N,N-三甲基甲銨與1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷磺酸的鹽 (1:1) 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)	189274-31-5
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸與2-甲基-2-丙胺的化合物 (1:1) 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)	202189-84-2
	雙[4-(1,1-二甲基乙基)苯基]碘鎓, 1,2,2,3,3,4,4,5,5,6,6,6 -十三氟-1-己烷磺酸鹽 (1:1) lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	213740-81-9
PFHxS, 及其鹽&衍生物 (PFHxS, its salts & derivatives)	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鎵鹽 (9CI) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)	341035-71-0
	雙(4-甲基苯基)苯基硫磺酸1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonate (1:1)	341548-85-4
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鈧(3+)鹽 (3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸釹(3+)鹽 (3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸釔(3+)鹽 (3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0
	(硫代二-4,1-亞苯基)雙[二苯基硫鹽與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1- 己烷磺酸 (1:2) 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 acid (1:2)	421555-73-9



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
(Group Name)	· · · · · · · · · · · · · · · · · · ·	404555 74.0
	雙[4-(1,1-二甲基丙基)苯基]碘鎓鹽與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己 烷磺酸 lodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid	421555-74-0
	三[4-(1,1-二甲基乙基)苯基]锍-,1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷 磺酸鹽 (1:1) Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonate (1:1)	425670-70-8
	十三氟己烷磺酸與二乙醇胺的化合物 Tridecafluorohexanesulphonic acid, compound with 2,2'- iminodiethanol (1:1)	70225-16-0
DELLAC 及其際の公共地	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸與N·N-二乙基乙胺的化合物 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)	72033-41-1
PFHxS, 及其鹽&衍生物 (PFHxS, its salts & derivatives)	雙[(1,1-二甲基乙基)苯基]碘鎓鹽-與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己 烷磺酸 (1:1) (9Cl) lodonium, 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) (9Cl)	866621-50-3
	(4-甲基苯基)二苯基锍-,1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonate (1:1)	910606-39-2
	[4-[(2-甲基-1-氧-2-丙烯-1-基)氧基]苯基]二苯基锍- ,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) 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)	911027-68-4
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸銫鹽 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-CsH)	92011-17-1



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	二苯並[k,n][1,4,7,10,13]四氧噻吩基環戊二烯鎓,19-[4-(1,1-二甲基乙基)苯基]-6,7,9,10,12,13-六氫-,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) 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)	928049-42-7
	全氟己基磺酸氯 (PFHxS-CI) Perfluorohexylsulfonyl chloride (PFHxS-CI)	55591-23-6
PFHxS, 及其鹽&衍生物 (PFHxS, its salts & derivatives)	PFHxS-磺酸酯聚合物 Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5
	全氟己基磺酸鹽 Perfluorohexane sulfonate (anion)	108427-53-8
	十三氟己烷-1-磺酸四丁基鏻 (PFHxS-P (C4H9)4)) Tetrabutylphosphonium tridecafluorohexane-1-sulfonate (PFHxS-P (C4H9)4))	2310194-12-6
	N-乙基-N-[(十三氟己基)磺醯基]甘氨酸 (Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]) (EtFHxSAA)	68957-32-4
EtFHxSAA, 及其鹽 (EtFHxSAA, its salts)	N-乙基-N-[(十三氟己基)磺醯基]甘氨酸鉀 (EtFHxSAA-K) Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6
(ELFTIXSAA, ILS SdILS)	N-乙基-N-((十三氟己基)磺醯基)甘氨酸鈉 (EtFHxSAA-Na) Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4
	全氟庚酸 (Perfluoroheptane acid) (PFHpA)	375-85-9
	全氟庚酸鈉 (PFHpA-Na) Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5
PFHpA, 及其鹽 (PFHpA, its salts)	全氟庚酸鉀 (PFHpA-K) Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5
	全氟庚酸銨 (PFHpA-NH <sub>4</sub> ) Ammonium perfluoroheptanoate (PFHpA-NH <sub>4</sub> )	6130-43-4
	全氟庚酸銫 (PFHpA-Cs) Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	全氟庚酸銀 (PFHpA-Ag) Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5
PFHpA, 及其鹽 (PFHpA, its salts)	全氟庚酸鋰 (PFHpA-Li) Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1
	全氟庚酸鹽 Perflluoroheptanoate (anion)	120885-29-2
	7H-十二氟庚酸 (7H-Dodecanefluoroheptane acid) (HPFHpA)	1546-95-8
	7H-十二氟庚酸鈉 (HPFHpA-Na) Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7
HPFHpA, 及其鹽 (HPFHpA, its salts)	7H-十二氟庚酸銨 (HPFHpA-NH <sub>4</sub> ) Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH <sub>4</sub> )	376-34-1
	全氟庚酸鹽 (HPFHpA(anion)) 7H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2
	全氟庚基磺酸 (Perfluoroheptane sulfonate) (PFHpS)	375-92-8
	全氟庚基磺酸鈉 (PFHpS-Na) Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9
	全氟庚基磺酸鉀 (PFHpS-K) Potassium perfluoroheptanesulfonate (PFHpS-K)	60270-55-5
	全氟庚基磺酸銨 (PFHpS-NH <sub>4</sub> ) Ammonium perfluoroheptanesulfonate (PFHpS-NH <sub>4</sub> )	68259-07-4
	全氟庚基磺酸鋰 (PFHpS-Li) Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9
PFHpS, 及其鹽 (PFHpS, its salts)	全氟庚基磺酸-雙(2-羥乙基)銨 (1:1) 1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-15-9
	全氟庚基磺酸鹽 Perfluoroheptane sulfonate (anion)	146689-46-5
	全氟庚烷磺酸三乙銨 Triethylammonium perfluoroheptane sulfonate	72033-40-0
	全氟庚烷磺酸四乙銨 Tetraethylammonium perfluoroheptane sulfonate	439863-97-5
	1-庚磺酸·1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-十五氟酸酐 (9CI) (PFHpSA) 1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, anhydride (9CI) (PFHpSA)	140429-92-1



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
(Group Name)	全氟辛烷磺酸 (Perfluorooctane sulfonates) (PFOS)	1763-23-1
	, , , ,	
	全氟辛基磺酸鉀 (PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	全氟辛基磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	全氟辛基磺酸銨 (PFOS-NH <sub>4</sub> ) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	29081-56-9
	全氟辛基磺酸二乙醇銨 (PFOS-NH(OH) <sub>2</sub> ) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )	70225-14-8
	全氟辛基磺酸四乙基銨 (PFOS-N( $C_2H_5$ ) $_4$ ) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N( $C_2H_5$ ) $_4$ )	56773-42-3
	全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
PFOS, 及其鹽&衍生物	全氟辛基磺酸四丁基銨 (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> ) TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	111873-33-7
(PFOS, its salts & derivatives)	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	全氟辛基磺酸鎂 (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	全氟辛基磺酸鈉 (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	全氟辛烷磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctanesulfonate	71463-74-6
	全氟辛烷磺酸鹽 Perfluorooctanesulfonate (anion)	45298-90-6
	全氟辛烷磺酸與 N,N-二乙基乙胺 (1:1) (PFOS-N( $C_2H_5$ ) <sub>3</sub> ) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N( $C_2H_5$ ) <sub>3</sub> )	54439-46-2
	N,N,N-三甲基-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸甲銨 (1:1) (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> ) Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )	56773-44-5



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	1-五胺·N,N,N-三丙基-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1 -辛烷 磺酸鹽(1:1) (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> )) 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> ))	56773-56-9
	1-丁銨·N,N-二丁基-N-甲基-·1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽 (1:1) (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> )) 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))	124472-68-0
	碘鎓・雙[4-(1,1-二甲基乙基)苯基]-・1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 -十七氟- 1-辛烷磺酸鹽 (1:1) lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8
	二苯基鍺(2,4,6-三甲基苯基)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟- 1-辛烷 磺酸鹽 (1:1) Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	吡啶鎓 · 1-十六烷基- · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1 -辛烷磺酸鹽 (1:1) Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4
	1-癸胺·N,N,N-三乙基-·1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛 烷磺酸鹽(1:1) 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4
	全氟辛烷磺酸四丁基鏻 (PFOS-P( $C_4H_9$ ) <sub>4</sub> )) Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P( $C_4H_9$ ) <sub>4</sub> ))	2185049-59-4
	全氟辛烷磺酸二乙胺鹽 (PFOS-C $_4$ H $_{11}$ N) Perfluorooctanesulfonic acid diethylamine salt (PFOS-C $_4$ H $_{11}$ N)	2205029-08-7
	庚基二甲基 $\{2-[(2-甲基丙-2-烯酰基)氧基]乙基}全氟辛烷磺酸氮素鹽 (PFOS-C_{15}H_{30}NO_2) Heptyldimethyl\{2-[(2-methylprop-2-enoyl)oxy]ethyl\}azanium perfluorooctanesulfonate (PFOS-C_{15}H_{30}NO_2)$	1203998-97-3
	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-,1,1' -酸酐 (PFOSAN) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	全氟辛基磺醯胺 (Perfluoroctanesulfonamide) (PFOSA)	754-91-6
	全氟辛基磺醯胺鋰鹽 (1:1) (PFOSA-Li)	76752-79-9
	Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	
	全氟辛基磺醯胺鈉鹽 (1:1) (PFOSA-Na)	76752-78-8
	Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	
PFOSA, 及其鹽	全氟辛基磺醯胺鉀鹽 (1:1) (PFOSA-K)	76752-70-0
(PFOSA, its salts)	Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	
	全氟辛基磺醯胺銨鹽 (1:1) (PFOSA-NH <sub>4</sub> )	76752-72-2
	Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH <sub>4</sub> )	
	全氟辛基磺醯胺三乙胺的化合物(1:1) (PFOSA- $C_6H_{15}N$ )	76752-82-4
	heptadecafluorooctane-1-sulphonamide, compound with	
	triethylamine(1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)	
	全氟辛酸 (Perfluorooctanoic acid) (PFOA)	335-67-1
	全氟辛酸鈉 (PFOA-Na)	335-95-5
	Sodium perfluorooctanoate (PFOA-Na)	
	全氟辛酸鉀 (PFOA-K)	2395-00-8
	Potassium perfluorooctanoate (PFOA-K)	
	全氟辛酸銀 (PFOA-Ag)	335-93-3
	Silver perfluorooctanote (PFOA-Ag)	
	全氟辛氟 (PFOA-F)	335-66-0
	Perfluorooctanoyl fluoride (PFOA-F)	
	全氟辛酸銨 (APFO)	3825-26-1
PFOA, 及其鹽&衍生物	Ammonium pentadecafluorooctanoate (APFO)	
(PFOA, its salts & derivatives)	全氟辛酸鋰 (PFOA-Li)	17125-58-5
	Lithium perfluorooctanoate (PFOA-Li)	
	全氟辛酸鈷 (PFOA-Co)	35965-01-6
	Cobalt perfluorooctanoate (PFOA-Co)	
	全氟辛酸銫 (PFOA-Cs)	17125-60-9
	Cesium perfluorooctanoate (PFOA-Cs)	
	全氟辛酸鉻 (PFOA-Cr(3*))	68141-02-6
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-,	
	chromium(3+) (PFOA-Cr(3 <sup>+</sup> ))	
	全氟辛酸-哌嗪(2:1) PFOA-NH(C <sub>4</sub> H <sub>10</sub> N)	423-52-9
	Pentadecafluorooctanoic acidpiperazine (2/1)PFOA-NH(C <sub>4</sub> H <sub>10</sub> N)	



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
(Group Name)		
	全氟辛酸鹽	45285-51-6
	Pentadecafluorooctanoate (anion)	
	全氟辛酸酐	33496-48-9
	Perfluorooctanoic Anhydride	
	乙銨·N,N,N-三乙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸 (1:1)	98241-25-9
	Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-	
	pentadecafluorooctanoate (1:1)	
	全氟辛酸四甲銨鹽	32609-65-7
	Tetramethylammoniumperfluoroctanoat	
	1-丙銨·N,N,N-三丙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1)	277749-00-5
	1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-	
	pentadecafluorooctanoate (1:1)	
	辛酸·2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟-鉀鹽·水合物 (1:1:2) (PFOA-	98065-31-7
	$K(H_2O)_2$	
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-,	
PFOA, 及其鹽&衍生物	potassium salt, hydrate (1:1:2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )	
(PFOA, its salts & derivatives)	辛酸·2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟-·化合物。與乙胺 (1:1)	1376936-03-6
	(PFOA-C <sub>2</sub> H <sub>7</sub> N)	1370330 03 0
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd.	
	with ethanamine (1:1) (PFOA- $C_2H_7N$ )	
	十五氟辛酸化合物與吡啶 (1:1) (9CI) (PFOA-C <sub>5</sub> H <sub>5</sub> N)	95658-47-2
	Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI)	
	(PFOA-C₅H₅N)	
	十五氟辛酸-1-苯基哌嗪(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )	1514-68-7
	Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-	2021.007
	$C_{10}H_{14}N_2$	
	1-辛胺·N,N,N-三甲基-·2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1)	927835-01-6
	$(PFOA-C_{11}H_{26}N)$	327033 01 0
	1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-	
	pentadecafluorooctanoate (1:1) (PFOA- $C_{11}H_{26}N$ )	
		20102 211
	1H,1H,2H,2H-全氟癸磺酸 (1H,1H,2H,2H-Perfluorodecanesulfonic	39108-34-4
8:2 FTS, 及其鹽 (8:2 FTS, its salts)	acid) (8:2 FTS)	100007 70 7
	1H, 1H, 2H, 2H-全氟癸磺酸鉀 (8:2 FTS-K)	438237-73-1
	1H,1H,2H,2H-Perfluorodencane sulfonate acid Potassium salt (8:2	
	FTS-K)	



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
0.0 570 77 1555	1H, 1H, 2H, 2H-全氟癸磺酸銨 (8:2 FTS-NH <sub>4</sub> ) 1H,1H,2H,2H-Perfluorodencane sulfonate acid Ammonium salt (8:2 FTS- NH <sub>4</sub> )	149724-40-3
8:2 FTS, 及其鹽 (8:2 FTS, its salts)	1H, 1H, 2H, 2H-全氟癸磺酸鈉 (8:2 FTS-Na) 1H,1H,2H,2H-Perfluorodencane sulfonate acid Sodium salt (8:2 FTS-Na)	27619-96-1
	1H,1H,2H,2H-全氟癸磺酸鹽 (8:2 FTS(anion)) 8: 2 Fluorotelomer sulfonate (anion) (8:2 FTS(anion))	481071-78-7
	全氟壬酸 (Perfluorononan-1-oic acid) (PFNA)	375-95-1
	全氟壬酸鈉 (PFNA-Na) Perfluorononanoate Na-salt (PFNA-Na)	21049-39-8
	全氟壬酸銨 (APFN) Perfluorononanoate ammounium salt (APFN)	4149-60-4
	全氟壬酸鉀 (PFNA-K) Potassium perfluorononanoate (PFNA-K)	21049-38-7
	全氟壬酸鋰 (PFNA-Li) Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3
	全氟壬酸銀 (PFNA-Ag) Silver perfluorononanoate (PFNA-Ag)	7358-16-9
	全氟壬酸甲烷銨 (PFNA-NH <sub>3</sub> (CH <sub>3</sub> )) Methanaminium perfluorononanoate (PFNA-NH <sub>3</sub> (CH <sub>3</sub> ))	77032-23-6
PFNA, 及其鹽 (PFNA, its salts)	全氟壬酸-N-乙基乙胺 (1:1) (PFNA-NH $_2$ (C $_2$ H $_5$ ) $_2$ )) Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) PFNA-NH $_2$ (C $_2$ H $_5$ ) $_2$ )	77032-27-0
	全氟壬酸-N-甲基甲胺 (1:1) (PFNA-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> ) Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> )	77032-24-7
	全氟壬酸-N·N-二乙基乙醯胺 (1:1) (9CI) (PFNA-NH( $C_2H_5$ ) $_3$ )) Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH( $C_2H_5$ ) $_3$ )	327176-80-7
	全氟壬酸-哌啶 (1:1) (9CI) (PFNA-NH $_2$ (C $_5$ H $_10$ )) Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH $_2$ (C $_5$ H $_10$ ))	95682-66-9
	全氟壬酸-苯胺 (1:1) (PFNA-NH $_3$ (C $_6$ H $_5$ )) Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-NH $_3$ (C $_6$ H $_5$ ))	95682-67-0



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	全氟壬酸-環己胺 (1:1) (9CI) ((PFNA-NH <sub>3</sub> (C <sub>6</sub> H <sub>11</sub> )) Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH <sub>3</sub> (C <sub>6</sub> H <sub>11</sub> ))	328531-06-2
PFNA, 及其鹽	全氟壬酸鹽 Perfluorononanoate (anion)	72007-68-2
(PFNA, its salts)	4-[(6-甲氧基-3-噠嗪基)氨磺酰基]苯銨十七氟壬酸酯 (PFNA-C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S) 4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S)	298703-33-0
	全氟壬酸酐 (PFNAA) Perfluorononanoic anhydride (PFNAA)	228407-54-3
	全氟癸酸 (Perfluorodecane acid) (PFDA)	335-76-2
	全氟癸酸鈉 (PFDA-Na) Perfluorodecanoate Na-salt (PFDA-Na)	3830-45-3
	全氟癸酸氨 (APFDA) Perfluorodecanoate ammonium salt (APFDA)	3108-42-7
	全氟癸酸鉀 (PFDA-K*) Potassium perfluorodecanoate (PFDA-K*)	51604-85-4
PFDA, 及其鹽 (PFDA, its salts)	全氟癸酸銀 (PFDA-Ag) Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
	全氟癸酸鋰 (PFDA-Li) Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
	全氟癸酸鹽 Perfluorodecanoate (anion)	73829-36-4
	全氟癸酸酐 (PFDAA) Perfluorodecanoic anhydride (PFDAA)	942199-24-8
	全氟十一烷酸 (Perfluoroundecanoic acid) (PFUnDA)	2058-94-8
PFUnDA, 及其鹽 (PFUnDA, its salts)	全氟十一烷酸銨 (PFUnDA-NH <sub>4</sub> ) Ammonium perfluoroundecanoate (PFUnDA-NH <sub>4</sub> )	4234-23-5
	全氟十一烷酸鈉 (PFUnDA-Na) Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7
	全氟十一烷酸鉀 (PFUnDA-K) Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
	全氟十一烷酸鈣 (PFUnDA-Ca) Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2
	全氟十一烷酸鹽 Perfluoroundecanoate (anion)	196859-54-8



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFDoDA, 及其鹽 (PFDoDA, its salts)	全氟十二烷酸 (Perfluorododecanoic acid) (PFDoDA)	307-55-1
	全氟十二烷酸銨 (APFDoDA) Ammonium perfluorododecanoate (APFDoDA)	3793-74-6
	全氟十二烷酸鈉 (PFDoDA-Na) Sodium perfluorododecanoate (PFDoDA-Na)	60872-01-7
	全氟十二烷酸鹽 Perfluorododecanoate (anion)	171978-95-3
	全氟十三烷酸 (Pentacosafluorotridecanoic acid) (PFTrDA)	72629-94-8
PFTrDA, 及其鹽 (PFTrDA, its salts)	全氟十三烷酸銨 (PFTrDA-NH4) Ammonium perfluorotridecanoate (PFTrDA-NH4)	4288-72-6
(PFTIDA, Its saits)	全氟十三烷酸鹽 Perfluorotridecanoate (anion)	862374-87-6
DETDA THE	全氟十四烷酸 (Perfluorotetradecanoic acid) (PFTDA)	376-06-7
PFTDA, 及其鹽 (PFTDA, its salts)	全氟十四烷酸鹽 Perfluorotetradecanoate (anion)	365971-87-5
=	1H,1H,2H,2H-全氟十二烷磺酸 (1H,1H,2H,2H-Perfluorododecane sulfonic acid) (10:2 FTS)	120226-60-0
10:2 FTS, 及其鹽 (10:2 FTS, its salts)	1H,1H,2H,2H-全氟十二烷磺酸鈉鹽 (10:2 FTS-Na) 1H,1H,2H,2H-Perfluorododecane sulfonic acid Sodium Salt (10:2 FTS-Na)	108026-35-3
	全氟壬烷磺酸 (Perfluorononane sulfonic acid) (PFNS)	68259-12-1
	全氟壬烷磺酸鈉 (PFNS-Na*) Sodium perfluoro-1-nonanesulfonate (PFNS-Na*)	98789-57-2
PFNS, 及其鹽 (PFNS, its salts)	全氟壬烷磺酸銨 (PFNS-NH <sub>4</sub> ) Ammonium nonadecafluorononanesulphonate (PFNS-NH <sub>4</sub> )	17202-41-4
(PFINS, Its Salts)	全氟壬烷磺酸鉀 (PFNS-K*) Potassium perfluorononanesulfonate (PFNS-K*)	29359-39-5
	全氟壬烷磺酸鹽 Perfluorononane sulfonate (anion)	474511-07-4
DELIADO A PRE	全氟十一烷磺酸 (Perfluoroundecane sulfonic acid) (PFUnDS)	749786-16-1
PFUnDS, 及其鹽 (PFUnDS, its salts)	全氟十一烷磺酸鹽 Perfluoroundecanesulfonate (anion)	441296-91-9
DED o DC 立 甘 暗	全氟十二烷磺酸 (Perfluorododecane sulfonic acid) (PFDoDS)	79780-39-5
PFDoDS, 及其鹽 (PFDoDS, its salts)	全氟十二烷磺酸鈉 (PFDoDS-Na*) Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na*)	1260224-54-1



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宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFDoDS, 及其鹽	全氟十二烷磺酸鉀 (PFDoDS-K) Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3
(PFDoDS, its salts)	全氟十二烷磺酸鹽 Perfluorododecane sulfonate (anion)	343629-43-6
DET. DC 77 Hing	全氟十三烷磺酸 (Perfluorotridecane sulfonic acid) (PFTrDS)	791563-89-8
PFTrDS, 及其鹽 (PFTrDS, its salts)	全氟十三烷磺酸鈉 (PFTrDS-Na*) Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na*)	174675-49-1
	雙[2-(全氟癸基)乙基]磷酸鹽 (10:2 Fluortelomerphosphatediester) (10:2 diPAP)	1895-26-7
10:2 diPAP, 及其鹽 (10:2 diPAP, its salts)	雙[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-二十一氟十二烷基]磷酸氫鹽化合物與 2,2'-亞氨基二乙醇 (1:1) (10:2 diPAP-C <sub>4</sub> H <sub>11</sub> O <sub>2</sub> ) bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafluorododecyl] hydrogen phosphate, compound with 2,2'-iminodiethanol (1:1) (10:2 diPAP-C <sub>4</sub> H <sub>11</sub> O <sub>2</sub> )	57677-98-2
DED - D.A. 77 ± 15/4	全氟十五烷酸 (Perfluoropentadecanoic acid) (PFPeDA, C15)	141074-63-7
PFPeDA, 及其鹽 (PFPeDA, its salts)	全氟十五烷酸鹽 (PFPeDA (anion)) Nonacosafluoropentadecanoate (PFPeDA (anion))	1214264-29-5
	全氟十六烷酸及其鹽類 (Perfluorohexadecanoic acid) (PFHxDA, C16)	67905-19-5
PFHxDA, 及其鹽 (PFHxDA, its salts)	全氟十六烷酸鹽 (PFHxDA (anion)) Hentriacontafluorohexadecanoate anion (PFHxDA (anion))	1214264-30-8
DEODA 77 ++ 165	全氟十八烷酸及其鹽類 (Perfluorooctadecanoic acid) (PFODA, C18))	16517-11-6
PFODA, 及其鹽 (PFODA, its salts)	全氟十八烷酸鹽 (PFODA (anion)) Perfluorooctadecanoate anion (PFODA (anion))	798556-82-8
	全氟癸烷磺酸 (Perfluorodecane sulfonate) (PFDS)	335-77-3
	全氟癸烷磺酸鈉 (PFDS-Na) Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7
PFDS, 及其鹽 (PFDS, its salts)	全氟癸烷磺酸鉀 (PFDS-K) Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8
	全氟癸基磺酸銨 (PFDS-NH <sub>4</sub> ) Perfluoroaliphatic dean-sulfonate salt of NH <sub>4</sub> (PFDS-NH <sub>4</sub> )	67906-42-7
	全氟癸基磺酸鹽 Perfluorodecane sulfonate (anion)	126105-34-8
	全氟癸磺酸酐 (PFDSA) Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0



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宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	2H,2H-全氟癸酸 (2H,2H-Perfluorodecane acid) (H2PFDA)	27854-31-5
H2PFDA, 及其鹽 (H2PFDA, its salts)	四丁基磷2H,2H-全氟癸酸酯 Tetrabutylphosphonium 2H,2H-Perfluorodecanoate	882489-14-7
	4,8-二氧雜-3H-全氟壬酸 (4,8-Dioxa-3H-perfluorononanoic acid) (ADONA)	919005-14-4
ADONA, 及其鹽 (ADONA, its salts)	4,8-二氧雜-3H-全氟壬酸銨 (ADONA-NH <sub>4</sub> ) Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH <sub>4</sub> )	958445-44-8
	4,8-二氧雜-3H-全氟壬酸鈉 (ADONA-Na) Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸 (2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide) (HFPO-DA)	13252-13-6
	丙酸・2,3,3,3-四氟-2-(1,1,2,2,3,3,3-七氟丙氧基)-(2R)- Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3- heptafluoropropoxy)-(2R)-	75579-39-4
	丙酸 · 2,3,3,3-四氟-2-(1,1,2,2,3,3,3-七氟丙氧基)-(2S)- Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3- heptafluoropropoxy)-(2S)-	75579-40-7
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸鉀 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, K- salts	67118-55-2
HFPO-DA, 及其鹽&衍生物	2,3,3,3-四氟-2-(七氟丙氧基)丙酸銨 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, ammonium salts	62037-80-3
(HFPO-DA, its salts & derivatives)	丙酸 · 2,3,3,3-四氟-2-(1,1,2,2,3,3,3-七氟丙氧基)-鈉鹽 (1:1) Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3- heptafluoropropoxy)-, sodium salt (1:1)	67963-75-1
	丙酸 · 2,3,3,3-四氟-2-(1,1,2,2,3,3,3-七氟丙氧基)- · 離子(1-) Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-, ion(1-)	122499-17-6
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸化合物與 N-丙基-1-丙胺 (1:1) Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3- heptafluoropropoxy)-, compd. with N-propyl-1-propanamine (1:1)	165951-17-7
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸化合物與 N,N-二乙基乙胺 (1:1) (9CI) Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, compd. with N,N-diethylethanamine (1:1) (9CI)	165951-18-8



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
HFPO-DA, 及其鹽&衍生物 (HFPO-DA, its salts & derivatives)	4-[(6-甲氧基-3-噠嗪基)氨磺酰]2,3,3,3-四氟-2-(七氟丙氧基)丙酸苯銨 4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro- 2-(heptafluoropropoxy)propanoate	298703-31-8
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸醯基氟化物 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, its acyl halides	2062-98-8
	苯甲酸 $\cdot$ 2,3,6-三碘-,(1-甲基-3-哌啶基)甲酯化合物與 2,3,3,3-四氟-2-(1,1,2,2,3,3,3-七氟丙氧基)丙酸酯 (1:1) (HFPO- $C_{14}H_{16}I_{3}NO_{2}$ ) Benzoic acid, 2,3,6-triiodo-, (1-methyl-3-piperidinyl)methyl ester, compd. with 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoro propoxy)propanoate (1:1) (HFPO- $C_{14}H_{16}I_{3}NO_{2}$ )	2412106-69-3
	1H,1H,2H,2H-全氟己磺酸 (1H,1H,2H,2H-Perfluorohexanesulfonic acid) (4:2 FTS)	757124-72-4
4:2 FTS, 及其鹽 (4:2 FTS, its salts)	1H,1H,2H,2H-全氟己烷磺酸鈉 1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8
	1H,1H,2H,2H-全氟己磺酸鹽 (4:2FTS(anion)) 4: 2 Fluorotelomer sulfonate (4:2FTS(anion))	414911-30-1
	全氟辛烷磺酰胺乙酸 (Perfluorooctane sulfonamidoacetic acid) (FOSAA)	2806-24-8
FOSAA, 及其鹽	全氟辛烷磺酰胺乙酸鹽 (FOSAA(anion)) N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
(FOSAA, its salts)	全氟辛烷磺酰胺乙酸鉀 (FOSAA-K) N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
	全氟辛烷磺酰胺乙酸鈉 (FOSAA-Na) N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, 及其鹽 (N-MeFOSAA, its salts)	N-甲基全氟辛烷磺酰胺乙酸 (N-methylperfluorooctane sulfonamidoacetic acid) (N-MeFOSAA)	2355-31-9
	N-甲基全氟辛烷磺酰胺乙酸鹽 (N-Me-FOSAA(anion)) 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
	N-甲基全氟辛烷磺酰胺乙酸鉀 (N-Me-FOSAA-K) Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	N-乙基全氟辛烷磺酰胺乙酸及其鹽類 (N-ethylperfluorooctane sulfonamidoacetic) (N-EtFOSAA)	2991-50-6
	N-乙基全氟辛烷磺酰胺乙酸鉀 (N-Et-FOSAA-K) Potassium N-ethyl-N-((heptadecafluorooctyl)sulphonyl)glycinate (N-Et-FOSAA-K)	2991-51-7
N-EtFOSAA, 及其鹽	N-乙基全氟辛烷磺酰胺乙酸鹽 (N-Et-FOSAA(anion)) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8
(N-EtFOSAA, its salts)	N-乙基全氟辛烷磺酰胺乙酸氨 (N-Et-FOSAA-NH4) Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH4)	2991-52-8
	N-乙基全氟辛烷磺酰胺乙酸鈉 (N-Et-FOSAA-Na) Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
	2H,2H,3H,3H-全氟癸酸 (2H,2H,3H,3H-Perfluoroundecanoic Acid) (4HPFUnA)	34598-33-9
4HPFUnA, 及其鹽 (4HPFUnA, its salts)	2H,2H,3H,3H-全氟癸酸鉀 (H4PFUnA-K) Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H4PFUnA-K)	83310-58-1
	2H,2H,3H,3H-全氟癸酸鋰 (H4PFUnA-Li) Lithium 3-(perfluorooctyl)propanoate (H4PFUnA-Li)	67304-23-8
	全氟戊磺酸 (Perfluoropentane sulfonic acid) (PFPeS)	2706-91-4
	全氟戊磺酸鈉 (PFPeS-Na*) Sodium perfluoro-1-pentanesulfonate (PFPeS-Na*)	630402-22-1
	全氟戊磺酸鉀 (PFPeS-K) Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1
PFPeS, 及其鹽 (PFPeS, its salts)	全氟戊磺酸銨 (PFPeS-NH <sub>4</sub> *) Ammonium perfluoropentanesulfonate (PFPeS-NH <sub>4</sub> *)	68259-09-6
	全氟戊磺酸-雙(2-羥乙基)銨 Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5- undecafluoropentane-1-sulphonate	70225-17-1
	全氟戊磺酸鋰 (PFPeS-Li) Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6
	全氟戊磺酸鹽 Perfluoropentane sulfonate (anion)	175905-36-9



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物質名稱	CAS No.
•	
	72033-42-2
· · · · · · · · · · · · · · · · · · ·	
,	161877-72-1
oxanonane-1-sulfonic acid) (9CI-PF <sub>3</sub> ONS)	756426-58-1
9-氯十六氟-3-氧雜壬烷-1-磺酸鉀 (9CI-PF <sub>3</sub> ONS-K)	73606-19-6
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF <sub>3</sub> ONS-K)	
9-氯十六氟-3-氧雜壬烷-1-磺酸銨 (9Cl-PF₃ONS-NH₄)	1383434-28-3
Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF <sub>3</sub> ONS-NH <sub>4</sub> )	
11-氯二十氟-3-氧雜十一烷-1-磺酸 (11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid) (11Cl-PF <sub>3</sub> OUdS)	763051-92-9
11-氯二十氟-3-氧雜十一烷-1-磺酸鉀 (11CI-PF₃OUdS-K)	83329-89-9
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF <sub>3</sub> OUdS-K)	
雙(1H,1H,2H,2H-全氟癸基)磷酸酯 (Bis(1H,1H,2H,2H- Perfluorodecyl)phosphate) (8:2diPAP)	678-41-1
雙(1H,1H,2H,2H-全氟癸基)磷酸酯鈉 (8:2diPAP-Na) Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6
雙(2-羥乙基)雙((全氟辛基)乙基)磷酸氫銨 Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1
雙[2-(全氟辛基)乙基]磷酸銨鹽 (8:2diPAP-NH <sub>4</sub> ) Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2diPAP-NH <sub>4</sub> )	93776-20-6
8:2 氟調聚物磷酸二酯離子 8:2 Fluorotelomer phosphate diester ion	1411713-91-1
	1765-48-6
	307-71-1
potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-	33
icosafluoroundecanoate (11H-PFUnDA-K)	
	5081-02-7
· ·	JUUT-02-1
icosafluoroundecanoate (11H-PFUnDA-NH <sub>4</sub> )	
	(Substance Name) 全氟戊磺酸三乙錠 Triethylammonium perfluoropentane sulfonate 全氟戊磺酸酐 (PFPeSA) Perfluoropentane sulfonic anhydride (PFPeSA)  9-氯十六氟-3-氧雜壬烷-1-磺酸及其鹽類 (9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid) (9Cl-PF <sub>3</sub> ONS-K) Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF <sub>3</sub> ONS-K) Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF <sub>3</sub> ONS-K) 9-氯十六氟-3-氧雜壬烷-1-磺酸銨 (9Cl-PF <sub>3</sub> ONS-NH <sub>4</sub> ) Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF <sub>3</sub> ONS-NH <sub>4</sub> )  11-氟二十氟-3-氧雜十一烷-1-磺酸 (11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid) (11Cl-PF <sub>3</sub> OUdS)  11-氟二十氟-3-氧雜十一烷-1-磺酸鉀 (11Cl-PF <sub>3</sub> OUdS-K) Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF <sub>3</sub> OUdS-K) 雙(1H,1H,2H,2H-全氟癸基)磷酸酯 (Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate) (8:2diPAP) 雙(1H,1H,2H,2H-全氟癸基-J基)磷酸氫銨 gis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate 雙[2-(全氟辛基)乙基]磷酸铵鹽 (8:2diPAP-NH <sub>4</sub> ) Bis[2-(perfluorootyl)ethyl] phosphate ammonium salt (8:2diPAP-NH <sub>4</sub> ) Bis[2-(perfluorootyl]ethyl] phosphate ammonium salt (8:2diPAP-NH <sub>4</sub> )



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
11H-PFUnDA, 及其鹽 (11H-PFUnDA, its salts)	11H-全氟十一烷酸鹽 (11H-PFUnDA(anion)) 11-H-Perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4
	五氟丙酸 (Pentafluoropropionate acid) (PFPrA)	422-64-0
	五氟丙酸鈉 (PFPrA-Na) Sodium pentafluoropropionate (PFPrA-Na)	378-77-8
PFPrA, 及其鹽	五氟丙酸銀 (PFPrA-Ag) Silver pentafluoropropionate (PFPrA-Ag)	509-09-1
(PFPrA, its salts)	五氟丙酸鉀 (PFPrA-K) Potassium pentafluoropropionate (PFPrA-K)	378-76-7
	五氟丙酸銨 (PFPrA-NH <sub>4</sub> ) Ammonium pentafluoropropionate (PFPrA-NH <sub>4</sub> )	2730-58-7
	6:6 全氟次磷酸 (6:6 Perfluorophosphinic acid) (6:6 PFPi)	40143-77-9
	6:6 全氟次磷酸鈉 (6:6 PFPi-Na) Sodium bis(perfluorohexyl)phosphinate (6:6 PFPi-Na)	70609-44-8
6:6 PFPi, 及其鹽 (6:6 PFPi, its salts)	6:6 全氟次磷酸鏡 (6:6 PFPi-Yb) Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb)	500776-72-7
	6:6 全氟次磷酸鉺 (6:6 PFPi-Er) Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er)	500776-73-8
	8:8全氟次磷酸 (8:8 Perfluorophosphinic acid) (8:8 PFPi)	40143-79-1
	8:8 全氟次磷酸鈉 (8:8 PFPi-Na) Sodium bis(perfluorooctyl)phosphinate (8:8 PFPi-Na)	500776-69-2
8:8 PFPi, 及其鹽 (8:8 PFPi, its salts)	8:8全氟次磷酸鉺 (8:8 PFPi-Er) Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er)	500776-70-5
	8:8全氟次磷酸鐿 (8:8 PFPi-Yb) Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPi-Yb)	500776-71-6
	單[2-(全氟乙烷)乙基]磷酸鹽 (Mono[2-(perfluorohexyl)ethyl] Phosphate) (6:2 monoPAP)	57678-01-0
6:2 monoPAP, 及其鹽 (6:2 monoPAP, its salts)	單[2-(全氟乙烷)乙基]磷酸二銨 (6:2 monoPAP-NH4NH4) Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH4NH4)	1000852-37-8
8:2 monoPAP, 及其鹽	單-[2-(全氟辛基)乙烷]磷酸酯 (Mono-[2- (perfluorooctyl)ethyl]phosphate) (8:2 monoPAP)	57678-03-2
(8:2 monoPAP, its salts)	1H,1H,2H,2H-全氟癸基磷酸鈉 (8:2 monoPAP-Na) Sodium 1H,1H,2H,2H-perfluorodecyl phosphate (8:2 monoPAP-Na)	92678-93-8



# **Test Report**

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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
6:2 FTPA, 及其鹽 (6:2 FTPA, its salts)	1H,1H,2H,2H-全氟辛烷磷酸 (1H,1H,2H,2H- Perfluorooctanephosphonic acid) (6:2 FTPA)	252237-40-4
	((全氟己基)乙基)膦酸鈉 (Cheminox FHP 2OH-Na(PFHEPA-Na)) Sodium hydrogen ((perfluorohexyl)ethyl)phosphonate (Cheminox FHP 2OH-Na(PFHEPA-Na))	1189052-95-6
	全氟-2,5-二甲基-3,6-二氧雜壬酸 (Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid) (HFPO-TA)	13252-14-7
	全氟-2,5-二甲基-3,6-二氧雜壬酸鉀 (HFPO-TA-K) Potassium perfluoro(2-(2-propoxypropoxy)propanoate) (HFPO-TA-K)	67118-57-4
HFPO-TA, 及其鹽	全氟-2,5-二甲基-3,6-二氧雜壬酸鈉 (HFPO-TA-Na) Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na)	67963-76-2
(HFPO-TA, its salts)	全氟-2,5-二甲基-3,6-二氧雜壬酸銨 (HFPO-TA-NH <sub>4</sub> ) 2,3,3,3-Tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2- (heptafluoropropoxy)propoxy]propanoic acidammonia (HFPO-TA-NH <sub>4</sub> )	13043-05-5
	全氟-2,5-二甲基-3,6-二氧雜壬酸氟 (HFPO-TA-F) Hexafluoropropene oxide trimer (HFPO-TA-F)	2641-34-1
	雙[2 - (全氟己基)乙基]磷酸鹽 (Bis[2-(perfluorohexyl)ethyl] Phosphate) (6:2 diPAP)	57677-95-9
6:2 diPAP, 及其鹽 (6:2 diPAP, its salts)	雙[2 - (全氟己基)乙基]磷酸鈉 (6:2 diPAP-Na) Sodium bis[2-(perfluorohexyl)ethyl] phosphate (6:2 diPAP-Na)	407582-79-0
(6.2 dipap, its saits)	雙[2 - (全氟己基)乙基]磷酸鹽 (6:2 diPAP(anion)) Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion (6:2 diPAP(anion))	667465-18-1
	雙三氟甲烷磺酰亞胺及其鹽類 (Trifluoromethanesulfonimide) (TFSI)	82113-65-3
TFSI, 及其鹽 (TFSI, its salts)	吡咯烷鎓 · 1-丁基-1-甲基-·與 1,1,1-三氟-N-[(三氟甲基)磺酰基]甲磺酰胺的鹽 (1:1) Pyrrolidinium, 1-butyl-1-methyl-, salt with 1,1,1-trifluoro-N- [(trifluoromethyl)sulfonyl]methanesulfonamide (1:1)	223437-11-4
	三丁基甲基雙(三氟甲磺酰)亞胺銨 Tributylmethyl Ammonium Bis(trifluoromethanesulfonyl) Imide	405514-94-5
	雙三氟甲烷磺酰亞胺鋰 (TFSI-Li) Lithium bis((trifluoromethyl)sulfonyl)azanide (TFSI-Li)	90076-65-6



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宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
Isomers)	乙基九氟丁基及其異構體 (Ethyl perfluoroisobutyl ether and its isomers)	163702-05-4
	全氟異丁基乙醚 Perfluoroisobutyl ethyl ether	163702-06-5



# **Test Report**

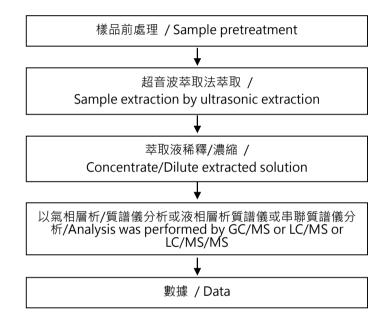
號碼(No.): ETR24800292

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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.) 宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)





# **Test Report**

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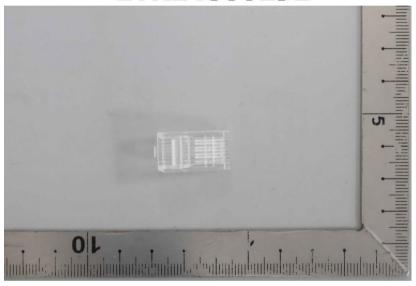
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乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.) 宜蘭縣五結鄉仁五路一段46巷1號 (NO.1,LN46 SEC.1 REN 5TH RD.,WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

\* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. \* (The tested sample / part is marked by an arrow if it's shown on the photo.)

#### ETR24800292



\*\* 報告結尾 (End of Report) \*\*