

BRACHI TESTING SERVICES

BRACHI TESTING SERVICES
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094 MICROPROJECTION
for WOOL TOPS only



LAB N° 0224 L

RAPPORTO DI PROVA N°:
Test Report N°:

020029/20

DITTA PRESENTATRICE:
Company:

TOSCOFILATI SRL - VIA LUNGA, 79/81 - MONTEMURLO
(PO)

CAMPIONE:
Sample:

Sample of yarn colour green named STYLE ATENA COL 738
P.TA 7304.

CAMPIONAMENTO:
Sampling:

Made by the customer

DATA RICEVIMENTO:
Date of Receipt:

October 22 2020

DATA ESECUZIONE PROVE
Test execution date:

From the date of receipt to the date of issue

OGGETTO:
Subject:

Various Analysis

RISULTATI DI LABORATORIO

TEST RESULTS



IL DIRETTORE
P.I. Primo Brachi

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Evaluation based on MRSL for Detox products -Rev.01-01/2016

CAS No.	Substance	Limit	Result	P/F
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs):				
2315-67-5 2315-61-9 9002-93-1, 9036-19-5, 68987-90-6, 26636-32-8, 19036-19-5	Octylphenol ethoxylates (OPEO)	≤ 1 mg/kg	Not detectable	PASS
104-35-8 20427-84-3 9016-45-9, 26027-38-3 37205-87-1, 68412-54-4 127087-87-0	Nonylphenol ethoxylates (NPEO)	≤ 1 mg/kg	Not detectable	FAIL
25154-52-3, 104-40-5, 11066-49-2, 84852-15-3, 90481-04-2	Nonylphenol (NP),	≤ 1 mg/kg	Not detectable	PASS
27193-28-8, 140-99-9, 1806-26-4	Octylphenol (OP),	≤ 1 mg/kg	Not detectable	PASS
Dyes – Azo (Forming Restricted Amines)				
CAS No.	Substance	Limit	Result	P/F
101-14-4	4,4'-methylene-bis-(2-chloro-aniline)	≤ 1 mg/kg	Not detectable	PASS
101-77-9	4,4'-methylenedianiline		Not detectable	PASS
101-80-4	4,4'-oxydianiline		Not detectable	PASS
106-47-8	4-chloroaniline		Not detectable	PASS
119-90-4	3,3'-dimethoxybenzidine		Not detectable	PASS
119-93-7	3,3'-dimethylbenzidine		Not detectable	PASS

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120-71-8	6-methoxy-m-toluidine		Not detectable	PASS
137-17-7	2,4,5-trimethylaniline		Not detectable	PASS
139-65-1	4,4'-thiodianiline		Not detectable	PASS
60-09-3	4-aminoazobenzene		Not detectable	PASS
615-05-4	4-methoxy-m-phenylenediamine		Not detectable	PASS
838-88-0	4,4'-methylene di-o-toluidine		Not detectable	PASS
87-62-7	2,6-xylidine		Not detectable	PASS
90-04-4	o-anisidine		Not detectable	PASS
91-59-8	2-naphthylamine		Not detectable	PASS
91-94-1	3,3'-dichlorobenzidine		Not detectable	PASS
92-67-1	4-aminodiphenyl		Not detectable	PASS
92-87-5	Benzidine	≤ 1 mg/kg	Not detectable	PASS
95-53-4	o-toluidine		Not detectable	PASS
95-68-1	2,4-xylidine		Not detectable	PASS
95-69-2	4-chloro-o-toluidine		Not detectable	PASS
95-80-7	4-methyl-m-phenylenediamine		Not detectable	PASS
97-56-3	o-aminoazotoluene		Not detectable	PASS
99-55-8	5-nitro-o-toluidine		Not detectable	PASS
62-53-3	Anilina		Not detectable	PASS
106-50-3	1,4 phenylenediamine		Not detectable	PASS
Phthalates – including all other esters of ortho phthalic acid				
CAS No.	Substance	Limit	Result	P/F
117-81-7	Di(ethylhexyl) phthalate (DEHP)		Not detectable	PASS
117-82-8	Bis(2-methoxyethyl) phthalate (DMEP)	≤ 10 mg/kg	Not detectable	PASS

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117-84-0	Di-n-octyl phthalate (DNOP)
26761-40-0 68515-49-1	Di-iso-decyl phthalate (DIDP)
28553-12-0 68515-48-0	Di-isononyl phthalate (DINP)
84-75-3	Di-n-hexyl phthalate (DHP)
84-74-2	Dibutyl phthalate (DBP)
85-68-7	Butyl benzyl phthalate (BBP)
84-76-4	Dinonyl phthalate (DNP)
84-66-2	Diethyl phthalate (DETP)
131-16-8	Di-n-propyl phthalate (DPRP)
84-69-5	Di-isobutyl phthalate (DIBP)
84-61-7	Di-cyclohexyl phthalate (DCHP)
27554-26-3	Di-iso-octyl phthalate (DIOP)
68515-42-4	1,2-benzenedicarboxylic acid, di-C7- 11-branched and linearalkyl esters (DNHUP)
71888-89-6	1,2-benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)
605-50-5	Diisopentylphthalates(DIPP)
131-18-0	Di-n-pentylphthalates (DPP)
776297-69-9	Pentyl isopentyl phthalates (PIPP)
84777-06-0	Acid 1,2- Benzenedicarboxylic, dipentyl ester (PBLB)
131-11-3	Dimetyl phthalates (DMP)

<=10 mg/kg

Not detectable	PASS
Not detectable	PASS
Not detectable	PASS
Not detectable	PASS
Not detectable	PASS
Not detectable	PASS
Not detectable	PASS
Not detectable	PASS
Not detectable	PASS
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68515-50-4	Acid, 1,2 bensedicarboxylic diesel ester (DHEP)		Not detectable	PASS
68515-51-5	Di (etil ottyl decil) phtalates (610P)		Not detectable	PASS
Total Heavy Metals				
CAS No.	Substance	Limit	Result	P/F
	Cadmium (Cd)	Each ≤1 mg/kg	Not detectable	PASS
	Mercury (Hg)		Not detectable	PASS
	Lead (Pb)		Not detectable	PASS
	Chromium (VI)		Not detectable	PASS
PFCs determination -short chain				
CAS No.	Substance	Limit	Result	P/F
355-42-0	Perfluoroesano (PFHx)	≤1 mg/kg	Not detectable	PASS
678-26-2	Perfluoropentano (PFPe)	≤1 mg/kg	Not detectable	PASS
115-25-3	Perfluorociclobutano (PFCB)	≤10 mg/kg	Not detectable	PASS
29420-49-3 375-73-5 59933-66-3 749861-23-2	Acido Perfluorbutansolfonico (PFBS)	≤1 mg/kg	Not detectable	PASS
3871-99-6 355-46-4 82382-12-15 4321-50-7	AcidoPerfluoroesansolfonico (PFHxS)	≤1 mg/kg	Not detectable	PASS
375-92-8 60270-55-5 68555-66-8	Acido perfluoro 1-eptansolfonico (PFHpS)	≤1 mg/kg	Not detectable	PASS
375-22-4	Acido Perfluorobutanoico (PFBA)	≤1 mg/kg	Not detectable	PASS
2706-90-3	Acido Perfluoropentanoico (PFPeA)	≤1 mg/kg	Not detectable	PASS
307-24-4	Acido Perfluoro n-esanoico (PFHxA)	≤1 mg/kg	Not detectable	PASS
375-85-9	Acido Perfluoro n-eptanoico (PFHpA)	≤1 mg/kg	Not detectable	PASS
1546-95-8	Acido7H perfluoroeptanoico (HPFHpA)	≤1 mg/kg	Not detectable	PASS
2043-47-2	4:2 fluorotelomero alcool (FTOH 4-2)	≤10 mg/kg	Not detectable	PASS
647-42-7	6:2 fluorotelomero alcool (FTOH 6-2)	≤10 mg/kg	Not detectable	PASS

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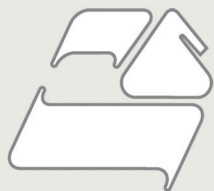
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PFCs determination long chain				
2795-39-3 1763-23-1	Acido perfluorooctansolfonico (PFOS)	<=1 mg/kg	Not detectable	PASS
335-77-3 2806-15-7 2806-16-8 67906-42-7	Acido Perfluorodecansolfonico (PFDS)	<=1 mg/kg	Not detectable	PASS
754-91-6	Perfluorooctan- sulfonamide (PFOSA)	<=1 mg/kg	Not detectable	PASS
335-67-1 3825-26-1	Acido Perfluoro ottanoico (PFOA)	<=1 mg/kg	Not detectable	PASS
375-95-1 21049-39-8 4149-60-4	Acido Perfluoro nonanoico (PFNA)	<=1 mg/kg	Not detectable	PASS
335-76-2 3108-42-7 3830-45-3	Acido Perfluoro decanoico (PFDA)	<=1 mg/kg	Not detectable	PASS
2058-94-8 4234-23-5	Acido Perfluoroundecanoico (PFUnA)	<=1 mg/kg	Not detectable	PASS
34598-33-9	Acido 2H, 2H, 3H, 3H Perfluoroundecanoico (HPFUnA)	<=1 mg/kg	Not detectable	PASS
307-55-1	Acido perfluorododecanoico (PFDoA)	<=1 mg/kg	Not detectable	PASS
72629-94-8	Acido perfluorotridecanoico (PFTriA)	<=1 mg/kg	Not detectable	PASS
376-06-7	Acido perfluorotetradecanoico (PFTA)	<=1 mg/kg	Not detectable	PASS
172155-07-6	Acido perfluoro 3,7- dimetilottanoico (H2PFDA)	<=1 mg/kg	Not detectable	PASS
27619-97-2	Acido 1H,1H,2H,2H perfluoro-ottansolfonico (H4PFOS 6-2)	<=1 mg/kg	Not detectable	PASS
17527-29-6	1H,1H,2H,2H perfluoro-ottil Acrilato (FTA 6-2)	<=1 mg/kg	Not detectable	PASS
27905-45-9	1H,1H,2H,2H perfluoro-decil Acrilato (FTA 8-2)	<=1 mg/kg	Not detectable	PASS
17741-60-5	1H,1H,2H,2H perfluoro-dodecil Acrilato (FTA 10-2)	<=1 mg/kg	Not detectable	PASS
678-39-7	8:2 fluorotelomero alcool (FTOH 8-2)	<=10 mg/kg	Not detectable	PASS
865-86-1	10:2 Fluorotelomero alcool (FTOH10-2)	<=10 mg/kg	Not detectable	PASS
24448-09-7	2-(N-metilperfluoro-1-ottansulfonamido)-etanolo (N-MeFOSE)	<=1 mg/kg	Not detectable	PASS
1691-99-2	2-(N-etilperfluoro-1-ottansulfonamido)-etanolo (N-EtFOSE)	<=1 mg/kg	Not detectable	PASS
31506-32-8	N-metilperfluoro-1-ottansulfonammide (N-MeFOSA)	<=1 mg/kg	Not detectable	PASS
4151-50-2	N-Etilperfluoro-1-ottansulfonammide (N-EtFOSA)	<=1 mg/kg	Not detectable	PASS
1546-95-8	Acido 7H- dodecanfluoroheptanoico (7H-DoFHpA)	<=1 mg/kg	Not detectable	PASS
27854-31-5	Sali dell'Acido 2H,2H-Perfluorodecane (2H-PFDeA)	<=1 mg/kg	Not detectable	PASS
27619-97-2	Acido 1H,1H, 2H,2H-Perfluorooctansolfonico (1H-2H-PFOS)	<=1 mg/kg	Not detectable	PASS

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39108-34-4	1H,1H, 2H,2H- Perfluorodecan solfonato (8:2FTS)	<=1 mg/kg	Not detectable	PASS
27854-31-5	Acido 2H,2H- Perfluorodecanoico (H2PFDeA)	<=1 mg/kg	Not detectable	PASS
307-35-7	Perfluoro-1-ottansolfonil fluoruro (POSF)	<=1 mg/kg	Not detectable	PASS

DETERMINATION OF ALKYL PHENOL ETHOXYLATES (APEOs) AND ALKYLPHENOLS (APs)

Process :

Method :ISO 18254-1:2016 - ISO 18218-1:2015

Results:

APs	CAS	Results mg/kg
Octylphenol ethoxylates OPEO1	2315-67-5	N.D.
Octylphenol diethoxylates OPEO2	2315-61-9	N.D.
Nonylphenol monoethoxylates NPEO1	104-35-8	N.D.
Nonylphenol diethoxylates NPEO2	20427-84-3	N.D.
Octylphenol ethoxylates OPEO 3-20	9002-93-1,9036-19-5, 68987-90-6, 26636-32-8,19036-19-5	N.D.
Nonylphenol ethoxylates NPEO 3-20	9016-45-9,26027-38-3 37205-87-1, 68412-54-4 127087-87-0	2,1
LOD (detection limit) : 1 mg/kg N.D.= not detectable <LOD		

Method : ISO 21084

Results:

APEOs	CAS	Results mg/kg
Nonylphenol (NP) mixer	25154-52-3,104-40-5, 11066-49-2, 84852-15-3, 90481-04-2	N.D.
Octylphenol (OP) mixer	27193-28-8,140-99-9, 1806-26-4	N.D.
LOD (detection limit) : 1 mg/kg N.D.= not detectable <LOD		

Detection limit (LOD) = 1 mg/kg

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TEXTILES: METHODS FOR DETERMINATION OF CERTAIN AROMATIC AMINES DERIVED FROM AZO COLORANTS. PART 1: DETECTION OF THE USE OF CERTAIN AZO COLORANTS ACCESSIBLE WITH OR WITHOUT EXTRACTING THE FIBRES

Test method:	ISO 14362-1:2017
Procedure:	Reductive cleavage of the azo group with sodium dithionite in a citrate buffered aqueous solution (pH 6,0; 70°C), spe purification, liquid-liquid extraction in Tertbutylmethylether phase. Gaschromatographic quantitative determination with mass detector GC/MSD.

NOTE:

A) The use of certain azo colorants (Table 1) cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

B) The product from which the sample was taken may have been coloured with colorants whose structures contain the amines but not azo bound.

C) The product from which the sample was taken may have been coloured with an azo colorant whose structure does not contain preformed 4-methoxy-m-phenylenediamine but 2-amino-4-nitroanisole. In the course of the analytical procedure the azo colorant will release 2-amino-4-nitroanisole which in turn will form 4-methoxy-m-phenylenediamine.

D) Care should be taken that detected aromatic amines originate from azo colorants and not for other materials such as polyurethane.

SAMPLE:	COLOR GREEN
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RESULTS

AROMATIC AMINES	CAS	NOTE	DETECTION LIMIT (ppm)	RESULTS (ppm)
4 - Aminobiphenyl	92-67-1	A,B	1	N.D.
Benzidine	92-87-5	-	1	N.D.
4 - Chloro - o - Toluidine	95-69-2	-	1	N.D.
2 - Naphthylamine	91-59-8	A,B	1	N.D.
o - Aminoazotoluene (a)	97-56-3	-	1	N.D.
5 - Nitro-o-toluidine (a)	99-55-8	A,C	1	N.D.
p - Chloroaniline	106-47-8	-	1	N.D.
2,4 - Diaminoanisole	615-05-4	-	1	N.D.
4,4' - Diaminodiphenylmethane	101-77-9	-	1	N.D.
3,3' - Dichlorobenzidine	91-94-1	-	1	N.D.
3,3' - Dimethoxybenzidine	119-90-4	-	1	N.D.
3,3' - Dimethylbenzidine	119-93-7	-	1	N.D.
3,3' - Dimethyl-4,4' - Diaminodiphenylmethane	838-88-0	-	1	N.D.
p-Cresidine	120-71-8	-	1	N.D.

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4,4' - Methylene-bis-(2-chloroaniline)	101-14-4	-	1	N.D.
4,4' - Oxydianiline	101-80-4	-	1	N.D.
4,4' - Thiodianiline	139-65-1	C	1	N.D.
o - Toluidine	95-53-4	-	1	N.D.
2,4 - Toluenediamine	95-80-7	B,D	1	N.D.
2,4,5 - Trimethylaniline	137-17-7	-	1	N.D.
o - Anisidine	90-04-0	-	1	N.D.
4 - Aminoazobenzene (b)	60-09-3	-	1	N.D.
			DETECTED	NOT DETECTED
Aniline	62-53-3			X
1,4- Phenylendiamine	106-50-3			X
Legend: ND= not detectable, lower than dection limit				
Note: (a) the CAS number 97-56-3 and 99-55-8 are further reduced to CAS number 95-53-4 and 95-80-7.				
(b) azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS 62-53-3) and 1-4-phenylendiamine (CAS 106-50-3). Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN 14362-3 (textiles).				

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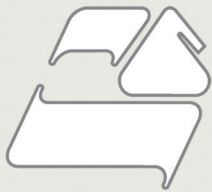
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DETERMINATION OF ORTHO-PHTHALATES

Process:

Test Method: ISO14389:2014

Results:

CAS	Substances	LOD mg/kg	Results mg/kg
117-81-7	Di(ethylhexyl) phthalate (DEHP)	1,0	N.D.
117-82-8	Bis(2-methoxyethyl) phthalate (DMEP)	1,0	N.D.
117-84-0	Di-n-octyl phthalate (DNOP)	5,0	N.D.
26761-40-0 68515-49-1	Di-iso-decyl phthalate (DIDP)	5,0	N.D.
28553-12-0 68515-48-0	Di-isononyl phthalate (DINP)	5,0	N.D.
84-75-3	Di-n-hexyl phthalate (DHP)	1,0	N.D.
84-74-2	Dibutyl phthalate (DBP)	1,0	N.D.
85-68-7	Butyl benzyl phthalate (BBP)	1,0	N.D.
84-76-4	*Dinonyl phthalate (DNP)	5,0	N.D.
84-66-2	*Diethyl phthalate (DETP)	5,0	N.D.
131-16-8	*Di-n-propyl phthalate (DPRP)	5,0	N.D.
84-69-5	Di-isobutyl phthalate (DIBP)	1,0	N.D.
84-61-7	*Di-cyclohexyl phthalate (DCHP)	5,0	N.D.
27554-26-3	*Di-iso-octyl phthalate (DIOP)	5,0	N.D.
68515-42-4	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DNHUP)	5,0	N.D.
71888-89-6	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	5,0	N.D.
605-50-5	*Diisopentylphthalates(DIPP)	1,0	N.D.

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131-18-0	*Di-n-pentylphthalates(DPP)	1,0	N.D.
776297-69-9	*Pentyl isopentyl phthalates (PIPP)	5,0	N.D.
84777-06-0	*Acid 1,2- Benzenedicarboxylic, dipentyl ester (PBLB)	5,0	N.D.
131-11-3	*Dimethyl phthalates (DMP)	1,0	N.D.
68515-50-4	*Acid, 1,2 bensedicarboxylic diesel ester (DHEP)	1,0	N.D.

Note: N.D.= not detectable <LOD

* DETERMINATION OF HEAVY METALS TOTAL CONTENT

Process:

Test method: Internal Method: Microwave acid digestion followed by ICP-OES determination based on CPSC-CH-E1002-08.03 -2012 for Cd,Pb,Hg-extraction in buffer for Cr(VI)

Results:

Heavy metal		Results (mg/kg)	LOD (mg/kg)
Pb	Lead	N.D.	0,1
Cd	Cadmium *	N.D.	0,1
Hg	Mercury*	N.D.	0,01
CrVI	Chromo VI*	N.D.	0,1

Note: N.D.= not detectable <LOD

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PERFLUORINATED AND POLYFLUORINATED CHEMICALS (PFCs)

Process:

Test Method

: UNI CEN/TS 15968:2010

2 hours extraction with methanol in ultrasonic bath
followed by filtration and LC-MS-MS analysis

Results:

CAS		LOD µg/m ²	Result µg/m ²
355-42-0	*Perfluoroesano (PFHx)	1,0	N.D.
678-26-2	*Perfluoropentano (PFPe)	1,0	N.D.
115-25-3	*Perfluorociclobutano (PFCB)	10,0	N.D.
29420-49-3 375-73-5 59933-66-3 749861-23-2	*Acido Perfluorbutansolfonico (PFBS)	1,0	N.D.
3871-99-6 355-46-4 82382-12-15 4321-50-7	*AcidoPerfluoroesansolfonico (PFHxS)	1,0	N.D.
375-92-8 60270-55-5 68555-66-8	*Acido perfluoro 1-eptansolfonico (PFHpS)	1,0	N.D.
375-22-4	*Acido Perfluorobutanoico (PFBA)	1,0	N.D.
2706-90-3	*Acido Perfluoropentanoico (PFPeA)	1,0	N.D.
307-24-4	*Acido Perfluoro n-esanoico (PFHxA)	1,0	N.D.
375-85-9	*Acido Perfluoro n-eptanoico (PFHpA)	1,0	N.D.
1546-95-8	*Acido7H perfluoroeptanoico (HPFHpA)	1,0	N.D.
2043-47-2	*4:2 fluorotelomero alcool (FTOH 4-2)	10,0	N.D.
647-42-7	*6:2 fluorotelomero alcool (FTOH 6-2)	10,0	N.D.
2795-39-3 1763-23-1	Acido perfluorooottantansolfonico (PFOS)	1,0	N.D.
335-77-3 2806-15-7 2806-16-8 67906-42-7	*Acido Perfluorodecansolfonico (PFDS)	1,0	N.D.
754-91-6	Perfluoroottan- sulfonamide (PFOSA)	1,0	N.D.
335-67-1 3825-26-1	*Acido Perfluoro ottanoico (PFOA)	1,0	N.D.
375-95-1 21049-39-8 4149-60-4	*Acido Perfluoro nonanoico (PFNA)	1,0	N.D.
335-76-2 3108-42-7 3830-45-3	*Acido Perfluoro decanoico (PFDA)	1,0	N.D.

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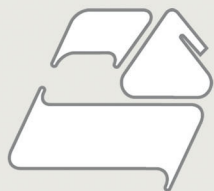
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2058-94-8 4234-23-5	*Acido Perfluoroundecanoico (PFUnA)	1,0	N.D.
34598-33-9	*Acido 2H, 2H, 3H, 3H Perfluoroundecanoico (HPFUnA)	1,0	N.D.
307-55-1	*Acido perfluorododecanoico (PFDoA)	1,0	N.D.
72629-94-8	*Acido perfluorotridecanoico (PFTrA)	1,0	N.D.
376-06-7	*Acido perfluorotetradecanoico (PFTA)	1,0	N.D.
172155-07-6	*Acido perfluoro 3,7- dimetilottanoico (H2PFDA)	1,0	N.D.
27619-97-2	Acido 1H,1H,2H,2H perfluoro- ottansolfonico (H4PFOS 6-2)	1,0	N.D.
17527-29-6	*1H,1H,2H,2H perfluoro-ottil Acrilato (FTA 6-2)	1,0	N.D.
27905-45-9	*1H,1H,2H,2H perfluoro-decil Acrilato (FTA 8-2)	1,0	N.D.
17741-60-5	*1H,1H,2H,2H perfluoro-dodecil Acrilato (FTA 10-2)	1,0	N.D.
678-39-7	*8:2 fluorotelomero alcool (FTOH 8-2)	10,0	N.D.
865-86-1	*10:2 Fluorotelomero alcool (FTOH10-2)	10,0	N.D.
24448-09-7	*2-(N-metilperfluoro-1-ottansulfonamido)- etanolo (N-MeFOSE)	1,0	N.D.
1691-99-2	2-(N-etilperfluoro-1-ottansulfonamido)- etanolo (N-EtFOSE)	1,0	N.D.
31506-32-8	N-metilperfluoro-1-ottansulfonammide (N-MeFOSA)	1,0	N.D.
4151-50-2	N-Etilperfluoro-1-ottansulfonammide (N-EtFOSA)	1,0	N.D.
1546-95-8	*Acido 7H- dodecanfluoroheptanoico (7H-DoFHpA)	1,0	N.D.
27854-31-5	*Sali dell'Acido 2H,2H- Perfluorodecane (2H-PFDeA)	1,0	N.D.
27619-97-2	*Acido 1H,1H, 2H,2H- Perfluorooottansolfonico (1H-2H-PFOS)	1,0	N.D.
39108-34-4	*1H,1H, 2H,2H- Perfluorodecan solfonato (8:2FTS)	1,0	N.D.
27854-31-5	*Acido 2H,2H- Perfluorodecanoico (H2PFDeA)	1,0	N.D.
307-35-7	*Perfluoro-1-ottansolfonil fluoruro (POSF)	1,0	N.D.

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Prato, 10 novembre 2020

P.I. Primo Brachi

Direttore



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