


CERTEST

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RECEIPT 30/10/2018

TESTING DATES FROM 30/10/2018 TO 12/12/2018

 COMMITMENT
ONGETTA SRL UNIPERSONALE
VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV

LABORATORY REPORT n° 1831576 of 12/12/2018

DENOMINATION	Analyses purchased by: Giulia/Tests executed on behalf of Company Ongetta, for its new yarns Research & Development Project Article: Filato greggio di SCHAPPE SETA 120/2 HGP Colour: FILATO GREGGIO Type of Material: Fabric sample	Notes: Greggio_REF. ONGETTA SRL and ITALTEXTIL SARATA SRL_100% SETA Delivery Note: Not provided Requirements: DETOX PROGRAM Sampling: done by the client
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Sample 01

Test	Pass	Fail	Failure result
Determination of ethoxylated alkylphenols. Part 2: indirect method - Test Method: ISO 18218-2: 2015	X		
Method for the detection and determination of alkylphenolethoxylates (APEO) - Test Method: ISO 18254: 2016	X		
Determination of chlorinated hydrocarbons in leather. Chromatographic method for short-chain chlorinated paraffins (SCCP). - Test Method: UNI EN ISO 18219: 2015	X		
Gb Extractable Heavy Metal in Textile GB 17593.2 (modified) & Cr (VI) GB 17593.3 (modified) - Inhouse Method: CPSD-AN-00212-MTHD ver 6	X		
Determination of the phthalate content - Tetrahydrofuran method - Test Method: UNI EN ISO 14389: 2014	X		
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions; German version DIN EN 16711-1:2014	X		
Detection of the use of certain Azo colorants accessible with and without extracting the fibres - Test Method: UNI EN 14362-1: 2017	X		
Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012	X		
Determination of Perfluorinated Compounds Inhouse Method: CPSD-AN-00668 V9	X		
Determination of FTOH in coated material by GC-MS Inhouse Method: CPSD-AN-00667 V8	X		
Perfluorinated surfactants - Test Method: UNI CEN TS 15968: 2010	X		
Determination of the content of bonds based on chlorobenzene and chlorotoluene - Test Method: DIN 54232: 2010	X		
Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, particularly in leather and textiles - Test Method: BVL B 82.02-8: 2001-06	X		
Michler's Ketone and Base - Inhouse Test Method: IOP 55: 2016 Rev00	X		

Continuing...

 Approved on behalf of BUREAU VERITAS CERTEST srl by:
 Dr. Verena BARTALINI – Laboratory Manager


LAB N. 1480



Analysis valid for all legal purposes (R.D. 1 march 1928 n.842)


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Sample 01

Test	Pass	Fail	Failure result
Solvent test by gas GC-HS - Inhouse test Method: CPSD-AN-00100 Rev.36: 2017	X		
Bisphenol A, in plastics and textiles - Internal Method CPSD-AN-00169-MTHD rev 25	X		
Test method to quantitatively determine polycyclic aromatic Hydrocarbons (PAH) in footwear materials - Test Method: UNI CEN ISO TS 16190: 2013	X		
Determination of Vinyl chloride monomer (VCM) - Inhouse test method: CPSD-AN-00099-MTHD ver 15:2014	X		
Determination of formaldehyde Part 1: Free and hydrolized formaldehyde (water extraction method) - Test Method: UNI EN ISO 14184-1: 2011	X		
Detection of disperse dyestuffs - Test Method: DIN 54231: 2005	X		

Sample 02

Test	Pass	Fail	Failure result
Headspace -GC-MS Inhouse Method	X		
Solvent extraction and GC-MS analysis	X		
N-Nitrosamines and N-Nitrosable substances: According to EN 12868, also in accordance with EN 14350-2, LC-QQQ analysis		X	N-Nitrosodiethanolamine: 0,17 mg/kg
Inhouse method, GC-MS analysis, LC-MS analysis		X	Acrylamide: 1,04 mg/kg

Pass = Meets Buyer's requirements

Fail = Does not meet Buyer's requirements

-- = Buyer's requirements not defined

The values in brackets represent requirements stated in the document named in the "Requirements" field of the "Denomination" section

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Sample 1831576.01						
Determination of ethoxylated alkylphenols. Part 2: indirect method - Test Method: ISO 18218-2: 2015 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS analysis	4-n- Nonylphenol (4-n-NP) (CAS N. 104-40-5) 4-n-Octylphenol (n-OP) (CAS N. 1806-26-4) 4-tert-Octylphenol (tert-4-OP) (CAS N. 140-66-9) Nonylphenol (NPs) (CAS N. 84852-15-3) tert-Octylphenol (tert-OP) (CAS N. 27193-28-8)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<1 <1 <1 <1 <1	mg/kg mg/kg mg/kg mg/kg mg/kg	1 1 1 1 1		Pass Pass Pass Pass Pass
Method for the detection and determination of alkylphenoethoxylates (APEO) - Test Method: ISO 18254: 2016 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS analysis	Nonylphenoethoxylates (IGEPAL CO-630), (NPEOs) (CAS N. 68412-54-4) Octylphenoethoxylates (Triton X-100), (OPEOs 2-16) (CAS N. 9002-93-1)	< L.O.Q. < L.O.Q.	<1 <1	mg/kg mg/kg	1 1		Pass Pass
Determination of chlorinated hydrocarbons in leather. Chromatographic method for short-chain chlorinated paraffins (SCCP). - Test Method: UNI EN ISO 18219: 2015 <u>Operating Conditions</u> - Ultrasonic extraction procedure: 60°C for 1h. - Determination by GC-ECNI-MS analysis.	Amount of extracted SCCP (C10-C13) (CAS N.85535-84-8)	< L.O.Q.	<10	mg/kg	10		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Gb Extractable Heavy Metal in Textile GB 17593.2 (modified) & Cr (VI) GB 17593.3 (modified) - Inhouse Method: CPSD-AN-00212-MTHD ver 6 <u>Operating Conditions</u> - Acid Sweat Extraction - Determination by analysis UV-VIS	Total Hexavalent Chromium (Cr-VI) Content (*)	< L.O.Q.	<0,5	mg/kg	0,5		Pass
Determination of the phthalate content - Tetrahydrofuran method - Test Method: UNI EN ISO 14389: 2014 <u>Operating Conditions</u> - Extraction in ultrasonic bath - Detection by GC-MS analysis	Phthalates (*) 1,2-BenzeneDiCarboxylicAcid, DiHexylester, Branched and Linear (CAS N. 68515-50-4) (*) Bis (2-Methoxyethyl) Phthalate (DMEP) (CAS N.117-82-8) Bis-2-Ethylhexyl Phthalate (DEHP) (CAS N. 117-81-7) Butyl Benzil Phthalate (BBP) (CAS N. 85-68-7) Di-cyclohexyl phthalate (DCHP) (CAS N.84-61-7) Di-iso-decil Phthalate (DIDP) (CAS N. 68515-49-1) Di-iso-nonyl Phthalate (DINP) (CAS N. 68515-48-0) Di-iso-octyl phthalate (DIOP) (CAS N. 27554-26-3) Di-isobutyl Phthalate (DIBP) (CAS N. 84-69-5) Di-isoheptyl Phthalate (DIHP) (CAS N. 71888-89-6) Di-isopentyl Phthalate (DIPP) (CAS N. 605-50-5) Di-n-hexyl Phthalate (DnHP) (CAS N. 84-75-3) Di-n-octyl Phthalate (DnOP) (CAS N. 117-84-0) Di-n-propyl phthalate (DPRP) (CAS N. 131-16-8) Dibutyl Phthalate (DBP) (CAS N. 84-74-2) Diethyl Phthalate (DEP) (CAS N. 84-66-2)	< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<100	mg/kg	100		Pass
		< L.O.Q.	<100	mg/kg	100		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<10	mg/kg	10		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Diisohexyle phtalate (DIHP) (CAS 71850-09-4) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Dinonyl phthalate (DNP) (CAS N. 84-76-4)	< L.O.Q.	<10	mg/kg	10		Pass
	Dipentyl Phthalate (DPP) (CAS N. 131-18-0)	< L.O.Q.	<10	mg/kg	10		Pass
	Diundecil Phthalate (DHNUP) (CAS N. 68515-42-4)	< L.O.Q.	<100	mg/kg	100		Pass
	N-pentyl-isopentyl phthalate (NPIPP) (CAS 776297-69-9)	< L.O.Q.	<10	mg/kg	10		Pass
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions; German version DIN EN 16711- 1:2014 <u>Operating Conditions</u> - Microwave digestion - Determination by ICP-MS analysis	Heavy Metals Total Cadmium [Cd] Content Total Lead [Pb] Content Total Mercury [Hg] Content Total Antimony [Sb] Content (*) Total Arsenic [As] Content (*) Total Cobalt [Co] Content (*) Total Nickel [Ni] Content (*) Total Boron [B] Content (*) Total Chromium [Cr] Content	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<0,5 <0,5 <0,02 <0,5 <0,005 <0,001 <0,006 <0,5 <0,1	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0,5 0,5 0,02 0,5 0,005 0,001 0,006 0,5 0,1		Pass Pass Pass Pass Pass Pass Pass Pass Pass
Detection of the use of certain Azo colorants accessible with and without extracting the fibres - Test Method: UNI EN 14362-1: 2017 <u>Operating Conditions</u> - Quantitative Detection: GC-MS - Confirmation by LC-DAD+LC MS	Aromatic amines derived from azodyes on fabric 4-Aminobiphenyl (CAS N 92-67-1) Benzidine (CAS 92-87-5) 4-Chloro-o-toluidine (CAS N. 95-69-2) 2-Naphthylamine (CAS N. 91-59-8) o-Aminoazotoluene (CAS 97-56-3) 5-nitro-o-toluidine (CAS 99-55-8) 4-Chloroaniline (CAS N. 106-47-8) 4-methoxy-m-phenylenediamine (CAS 615-05-04)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<5 <5 <5 <5 <5 <5 <5 <5	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5 5 5 5 5 5 5 5	(1) (1)	Pass Pass Pass Pass Pass Pass Pass Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	4,4'-methylenedianiline (CAS 101-77-9)	< L.O.Q.	<5	mg/kg	5	MDA	Pass
	3,3'-Dichlorobenzidine (CAS N. 91-94-1)	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dimethoxybenzidine (CAS N. 119-90-4)	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dimethylbenzidine (CAS N. 119-93-7)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-methylenedi-o-toluidine (CAS N. 838-88-0)	< L.O.Q.	<5	mg/kg	5		Pass
	p-cresidine (CAS 120-71-8)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-Methylene-bis-(2-chloroaniline) (CAS N. 101-14-4)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-Oxydianiline (CAS N 101-80-4)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-Thiodianiline (CAS N. 139-65-1)	< L.O.Q.	<5	mg/kg	5		Pass
	o-Toluidine (CAS 95-53-4)	< L.O.Q.	<5	mg/kg	5		Pass
	4-methyl-m-phenylenediamine (CAS 95-80-7)	< L.O.Q.	<5	mg/kg	5	TDA	Pass
	2,4,5-Trimethylaniline (CAS N. 137-17-7)	< L.O.Q.	<5	mg/kg	5		Pass
	o-anisidine (CAS 90-04-0)	< L.O.Q.	<5	mg/kg	5		Pass
	4-Aminoazobenzene (CAS N. 60-09-3)	< L.O.Q.	<5	mg/kg	5		Pass
	2,4- Xylidine (CAS 95-68-1)	< L.O.Q.	<5	mg/kg	5		Pass
	2,6-Xylidine (CAS N. 87-62-7)	< L.O.Q.	<5	mg/kg	5		Pass
	Aniline (CAS 62-53-3) (*)	< L.O.Q.	<5	µg/l	5		Pass
Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012 <u>Operating Conditions</u> - Methanol extraction + derivatization - Detection by GC-MS analysis	Organotin compounds						
	Dibutyl tin (DBT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Dimethyltin (DMT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Diocetyl tin (DOT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Diphenyltin (DPT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Methyl tin (MeT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Monobutyl tin (MBT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Monooctyl tin (MOT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Phenyltin tin (TPhT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tetrabutyl tin (TeBT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tetraethyltin (TeET) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tributyl tin (TBT)	< L.O.Q.	<0,02	mg/kg	0,02		Pass
	Tricyclohexyltin (TCyHT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.'
	Trimethyl tin (TMT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Trioctyltin (TOT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Triphenyltin (TPhT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tripropyltin (TPT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
Determination of Perfluorinated Compounds Inhouse Method: CPSD-AN-00668 V9 <u>Operating Conditions</u> -Solvent extraction and determination by LC-MS QQQ+ GC-MS QQQ	Perfluorinated Chemicals (PFCs) 1H,1H,2H,2H-perfluorooctylacrylate (6:2 FTA) (CAS N. 17527-29-6)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTA) (CAS N.27905-45-9)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1H,1H,2H,2H-perfluorododecylacrylate (10:2 FTA) (CAS N.17741-60-5)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1H,1H,2H,2H-Perfluorooctanesulphonic acid (1H,1H,2H,2H-PFOS) (CAS N 27619-97-2)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) (CAS N.1691-99-2)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) (CAS N. 24448-09-7)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2H,2H,3H,3H-perfluoroundecanoic acid (H4PFUnA) (CAS N.34598-33-9)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	7H-dodecafluoroheptanoic acid (HPFHpA) (CAS N.1546-95-8)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-ethylperfluoro-1-octanesulfonamide (N- EtFOSA) (CAS N. 4151-50-2)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) (CAS N.31506-32-8)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluoro-1- heptanesulfonic acid (PFHpS) (CAS N.375-92-8)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (CAS N.172155-07-6)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluoro-n-decanoic acid (PFDA) (CAS N.335-76-2)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluoro-n-heptanoic acid (PFHpA) (CAS N.375-85-9)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluoro-n-hexanoic acid (PFHxA) (CAS N. 307-24-4)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluoro-n-nonanoic acid (PFNA) (CAS N. 375-95-1)	< L.O.Q.	<0,01	mg/kg	0,01		Pass

Continuing...

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	Perfluoro-n-octanoic acid (PFOA) (CAS N. 335-67-1)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluorobutanesulfonic acid (PFBS) (CAS N.375-73-5)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluorobutyric acid (PFBA) (CAS N.375-22-4)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluorodecanesulfonic acid (PFDS) (CAS N.335-77-3)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluorododecanoic acid (PFDoA) (CAS N.307-55-1)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluorohexanesulfonic acid (PFHxS) (CAS N.355-46-4)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluorooctane sulfonamide (PFOSA) (CAS N. 754-91-6)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluorotetradecanoic acid (PFTeA) (CAS N.376-06-7)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluorotridecanoic acid (PFTrA) (CAS N.72629-94-8)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluoroundecanoic acid (PFUnA) (CAS N.2058-94-8) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Perfluoropentanoic acid (PFPA)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
Determination of FTOH in coated material by GC-MS Inhouse Method: CPSD-AN-00667 V8 <u>Operating Conditions</u> -Solvent extraction and determination by GC-MS QQQ	2- Perfluorobutylethanol (4:2 FTOH) (CAS N.2043-47-2)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
	2- Perfluorohexylethanol (6:2 FTOH) (CAS N.647-42-7)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
	2-Perfluorodecylethanol (10:2 FTOH) (CAS N865-86-1)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
	2-Perfluorooctylethanol (8:2 FTOH) (CAS N.678-39-7)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
Perfluorinated surfactants - Test Method: UNI CEN TS 15968: 2010 <u>Operating Conditions</u> - Methanol ultrasonic extraction, 2h at 60°C - Determination by LC-MS MS	Perfluorooctane sulfonate and related compounds (PFOS)	< L.O.Q.	<0,01	mg/kg	0,01		Pass

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.	
Determination of the content of bonds based on chlorobenzene and chlorotoluene - Test Method: DIN 54232: 2010 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS analysis	1,2-Dichlorobenzene (CAS N.95-50-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,3-Dichlorobenzene (CAS N.541-73-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,4-Dichlorobenzene (CAS N.106-46-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,2,3-Trichlorobenzene (CAS N.87-61-6) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,2,4 Trichlorobenzene (CAS N.120-82-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,3,5-Trichlorobenzene (CAS N.108-70-3) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,2,3,4-Tetrachlorobenzene (CAS N.634-66-2) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,2,3,5-Tetrachlorobenzene (CAS N.634-90-2), 1,2,4,5-Tetrachlorobenzene (CAS N.95-94-3) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Pentachlorobenzene (CAS N.608-93-5) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Hexachlorobenzene (CAS N.118-74-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Chlorobenzene (CAS N.108-90-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	a,a-Dichlorotoluene (CAS N.98-87-3) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	alpha, alpha, alpha 4-tetrachlorotoluene (CAS N.5216-25-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Benzotrichloride (CAS N.98-07-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Benzyl chloride (CAS 100-44-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, particularly in leather and textiles - Test Method: BVL B 82.02-8: 2001-06 <u>Operating Conditions</u> - Detection by GC-MS analysis	Pentachlorophenol (PCP) (CAS N. 87-86-5)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
		2,4,6-TriChlorophenol (2,4,6-TCP) (CAS N. 88-06-2)	< L.O.Q.	<0,05	mg/kg	0,05		Pass

Continuing...

 Approved on behalf of BUREAU VERITAS CERTEST srl by:
 Dr. Verena BARTALINI – Laboratory Manager


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ONGETTA SRL UNIPERSONALE
VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV
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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	3,4,5-TriChlorophenol (3,4,5-TCP) & 2,3,4-TriChlorophenol (2,3,4-TCP) (CAS N.609-19-8 & 15950-66-0)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,5-TriChlorophenol (2,3,5-TCP) (CAS N. 933-78-8)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,6-TriChlorophenol (2,3,6-TCP) (CAS N. 933-75-5) & 2,4,5-TriChlorophenol (2,4,5-TCP) (CAS N95-95-4)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,5,6-TetraChlorophenol (2,3,5,6-TeCP) (CAS N. 935-95-5)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,4,6-TetraChlorophenol (2,3,4,6-TeCP) (CAS N. 58-90-2)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,4,5-TetraChlorophenol (2,3,4,5-TeCP) (CAS N. 4901-51-3)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3- Dichlorophenol (CAS N.576-24-9)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	3,4- Dichlorophenol (CAS N.95-77-2)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,5-DiChlorophenol (2,5-DiCP) & 2,4-DiChlorophenol (2,4-DiCP) & 2,6-DiChlorophenol (2,6-DiCP) & 3,5 DiChlorophenol (3,5-DiCP) (CAS N.583-78-8 & CAS N. 120-83-2 & CAS N. 87-65-0 & CAS N.591-35-5) (*)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2- Mono Chlorophenol (2-MoCP) (CAS N.95-57-8)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	3- Mono Chlorophenol (3-MoCP) (CAS N.108-43-0)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	4- Mono Chlorophenol (4-MoCP) (CAS N.106-48-9)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
Michler's Ketone and Base - Inhouse Test Method: IOP 55: 2016 Rev00 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS DAD analysis	Michler's Ketone (CAS90-94-8) (*) Michler's Base (CAS101-61-1) (*)	< L.O.Q. < L.O.Q.	<10 <10	ppm mg/kg	10 10		Pass Pass
Solvent test by gas GC-MS - Inhouse test Method: CPSD-AN-00100 Rev.36: 2017 <u>Operating Conditions</u> - Headspace GC-MS	VOCs Benzene (CAS 71-43-2) (*) Ethylbenzene (CAS 100-41-4) (*)	< L.O.Q. < L.O.Q.	<1 <10	mg/kg mg/kg	1 10		Pass Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Disperse Blue 3 (CAS N. 2475-46-9) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 35 (CAS N. 12222-75-2)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Brown 1 (CAS N. 23355-64-8) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 1 (CAS N. 2581-69-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 11 (CAS N. 82-28-0)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 149 (CAS N. 151126-94-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 3 (CAS N. 730-40-5)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 37/59/76 (CAS N. 13301-61-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 1 (CAS N. 2872-52-8)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 11 (CAS N. 2872-48-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 17 (CAS N. 3179-89-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 1 (CAS N. 119-15-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 23 (CAS N. 6250-23-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 3 (CAS N. 2832-40-8)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 49 (CAS N. 54824-37-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 9 (CAS N. 6373-73-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 1 (CAS N. 60-09-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 14 (CAS N. 842-07-9) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 2 (CAS N. 60-11-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 3 (CAS N. 97-56-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Blue 6 (CAS N. 2602-46-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 7 (CAS N. 3179-90-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 39 (CAS N. 12236-29-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions; German version DIN EN 16711- 1:2014 <u>Operating Conditions</u> - Microwave digestion - Determination by ICP-MS analysis	Other (theoretical) Flame retardants calculated by stoichiometry on total metal content All Borium Coumpounds expressed as total B (*) Boron trioxide (*) Sodium tetraborate (*) Orthoboric acid, sodium salt (*) Sodium perborate (*) Sodium Perborate Monohydrate (*) Sodium Perborate Tetrahydrate (*) Sodium perborate trihydrate (*) Sodium tetraborate (*) Sodium tetraborate decahydrate (*) Sodium tetraborate pentahydrate (*) Boric acid (*) Antimony trioxide (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50 50 50 50 50 50 50 50 50 50 50 50		Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Sample 1831576.02						
Headspace -GC-MS Inhouse Method	Chlorinated Solvents						
	Dichloromethane (CAS N.75-09-2) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	Chloroform (CAS N. 67-66-3) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	Tetrachloromethane (CAS N. 56-23-5) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,1,2-Trichloroethane (CAS 79-00-5) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,1-Dichloroethane (CAS N. 75-34-3) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,2-Dichloroethane (CAS N. 107-06-2) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	Trichloroethylene (CAS N. 79-01-6) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	Perchloroethylene (CAS N.127-18-4) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,1,1-Trichloroethane (CAS N.71-55-6) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,1,1,2-Tetrachloroethane (CAS N. 630-20-6) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,1,2,2-Tetrachloroethane (CAS N. 79-34-5) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	Pentachloroethane (CAS N.76-01-7) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,1-Dichloroethylene (CAS N. 75-35-4) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,2,3-Trichloropropane (CAS N96-18-4) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,2-Dibromoethane (CAS 106-93-4) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1-bromopropane n-propyl bromide (CAS 106-94-5) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
2,4-dinitrotoluene (CAS 121-14-2) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass	
Solvent extraction and GC-MS analysis	Glycols						
	Ethylene glycol (CAS N. 107-21-1) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Ethylene glycol monomethyl ether (CAS N. 109-86-4) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Ethylene glycol monomethyl ether acetate; 2-Methoxyethyl acetate (CAS N. 110-49-6) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	1,2-dimethoxyethane; ethylene glycol dimethyl ether; EGDME (CAS N. 110-71-4) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Ethylene glycol monoethyl ester (CAS N. 110-80-5) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	2-ethoxyethylacetate (CAS N. 111-15-9) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Bis-(2-methoxyethyl) ether (CAS N. 111-96-6) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Glycol; triglyme (TEGDME) (CAS N. 112-49-2) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	1,2-Diethoxyethane (CAS 629-14-1) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	2-methoxypropyl acetate (CAS 70657-70-4) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
N-Nitrosamines and N-Nitrosable substances: According to EN 12868, also in accordance with EN 14350-2, LC-QQQ analysis	N-Nitrosocompounds						
	N-Nitrosodiethanolamine (CAS N. 1116-54-7) (*)	0,17	<0,01	mg/kg	0,01	BVG	Fail
	N-Nitrosodiethylamine (NDEA) (CAS N. 55-18-5) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-Nitrosomorpholine (NMOR) (CAS N. 59-89-2) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-nitroso N-methyl N-phenylamine (NMPHA); N-Methyl-N- nitrosoanilin (CAS N. 614-00-6) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-Nitrosodi-n-butylamine (NDBA) (CAS N. 924-16-3) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-Nitrosopiperidine (NPIP) (CAS N. 100-75-4) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-Nitrosomethylethylamine (CAS N. 10595-95-6) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-nitroso-N-ethyl-N-phenylamine (NEPhA); N-Ethyl-N-nitrosoanilin (CAS N. 612-64-6) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-Nitrosodimethylamine (NDMA) (CAS N. 62-75-9) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-Nitrosodi-n-propylamine (NDPA) (CAS N. 621-64-7) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-Nitrosopyrrolidine (NPYR) (CAS N. 930-55-2) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	p-Nitrosodiphenylamine (CAS N. 156-10-5) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-Nitrosodiphenylamine (CAS N. 86-30-6) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
	N-Methyl-N'-nitro-N-nitrosoguanidine (CAS 70-25-7) (*)	< L.O.Q.	<0,01	mg/kg	0,01	BVG	Pass
Inhouse method, GC-MS analysis, LC-MS analysis	Epichlorohydrin (CAS N. 106-89-8) (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass
	1,3-Butadiene (CAS N. 106-99-0) (*)	< L.O.Q.	<0,1	mg/kg	0,1	BVG	Pass
	Acrylonitrile (CAS N. 107-13-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1	BVG	Pass
	Ethyl acrylate (CAS N. 140-88-5) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Acrylamide (CAS N. 79-06-1) (*)	1,04	<1	mg/kg	1	BVG	Fail

Continuing...

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VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV

LABORATORY REPORT n° 1831576 of 12/12/2018

Notes

< L.O.Q.: Not detectable analytically

(1) = If the use of this analytical method has detected 4-aminodiphenyl and/or 2-naphtylamine, according to the current state of knowledge it cannot be unequivocally confirmed without additional information that azo colorants which release amines were used.

MDA =

In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

TDA = In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 2,4-toluen-diamine (TDA, CAS 95-80-7) are released from the PU component and not from a banned azo colorant.

BVG = Test executed at Bureau Veritas Germany - Wilhelm-Hennemann-Str. 8, 19061 Schwerin, Germany

BV-Sch: Test executed at Bureau Veritas Germany - Wilhelm-Hennemann-Str. 8, 19061 Schwerin, Germany

In case of non-indication from the client of the category of the material to be tested, the laboratory will identify it and will test it according to the specifics of the defined category.

" The assessment is obtained by the comparison between the Result of the analysis ("Result" column) and the required Limit ("Limit" column).

Limits: Values indicated in the Limits column refer to the requirements stated in the document named in the "Requirements" field of the "Denomination" section

U.M.: Units of Measurement

L.O.Q.: Limit of Quantification

Assess.: Assessment

Pass: the test result is conform to the standard required

Fail: the test result is not conform to the standard required

N/A: it is not possible to carry out the test, or the test result can not be defined as "Pass" or "Fail"

The evaluations of change in color are carried out in accordance with ISO 105-A02 (or GB/T 250 for Chinese market methods), the evaluations of color staining are carried out in accordance with ISO 105-A03 (or GB/T 251 for Chinese market methods).

BWS: Blue Wool Scale

GSR: Grey Scale Rating

The tests marked by an asterisk (*) are not part of the ACCREDIA accreditation.

Opinions and interpretations are not part of the ACCREDIA accreditation.

This report has been issued by Bureau Veritas Certest s.r.l. quality system and well documented by our own quality manual and related procedures. Results reported have been achieved applying rules and/or technical procedures specified in the following pages and they refer only to the sample submitted to tests in our laboratory and not the whole lot they represent. Reproduction of this document is allowed only with an exact copy of the original. Partial reproduction of this documents allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. Only the original report is valid and partial re production of this document is allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. The use of this report in a judicial process must be expressly authorized by Certest srl. The records related to the analyzes carried out are retained for a period of 48 months. Samples tested are stored for three months if not otherwise required or agreed with the Client.

The expanded uncertainty (U) is calculated with a coverage factor k=2 for a confidence level of 95% and a number of degrees of freedom greater than or equal to 10. In case of qualitative tests, the expanded uncertainty (U) is not applicable, so the reference column will be populated with "N/A".

Whenever the supplied sample amount is not enough to perform all the trials required by the Method, the laboratory will perform the higher number of tests with the provided material.

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