


CERTEST

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RECEIPT 06/09/2018

TESTING DATES FROM 06/09/2018 TO 30/10/2018

 COMMITMENT
BESANI SRL
VIA PER GALLARATE 50/A
21010 BESNATE VA

LABORATORY REPORT n° 1825069/E1 - Amendment of 30/10/2018

 DENOMINATION Analyses purchased by: Mario Riva
 Article: 6101
 Colour: 6 PIQUET MAKO Ne 70/2 JACQUARD
 Application: Apparel
 Type of Material: Textile

 Notes: 100% Cotton dyed and mercerized in yarn
 Delivery Note: Not provided
 Requirements: DETOX PROGRAM
 Sampling: done by the client

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 alkylphenoethoxylates (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		
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions; German version DIN EN 16711-1:2014	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		
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		
Solvent test by gas GC-HS - Inhouse test Method: CPSD-AN-00100 Rev.36: 2017	X		

Continuing...

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


LAB N. 1480



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Sample 01

Test	Pass	Fail	Failure result
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 formaldehyde Part 1: Free and hydrolized formaldehyde (water extraction method) - Test Method: UNI EN ISO 14184-1: 2011	X		
Determination of flame retardants - Test method: ISO 17881-1: 2016 + ISO 17881-2: 2016 + CPSD AN 00131	X		

Sample 02

Test	Pass	Fail	Failure result
Headspace -GC-MS Inhouse Method	X		
Solvent extraction and GC-MS analysis 14350-2_SW	--	--	--
In-house Method	--	--	--
Detection of disperse dyestuffs - Test Method: DIN 54231: 2005	X		

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

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Sample 1825069.01						
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."
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	< L.O.Q.	<0,5	mg/kg	0,5		Pass
	Total Lead [Pb] Content	< L.O.Q.	<0,5	mg/kg	0,5		Pass
	Total Mercury [Hg] Content	< L.O.Q.	<0,02	mg/kg	0,02		Pass
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
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	Total Antimony [Sb] Content (*)	< L.O.Q.	<0,5	mg/kg	0,5		Pass
	Total Arsenic [As] Content (*)	< L.O.Q.	<0,005	mg/kg	0,005		Pass
	Total Cobalt [Co] Content (*)	< L.O.Q.	<0,001	mg/kg	0,001		Pass
	Total Nickel [Ni] Content (*)	< L.O.Q.	<0,006	mg/kg	0,006		Pass
	All Borium Coumpounds expressed as total B (*)	< L.O.Q.		mg/kg			
	Boron trioxide (*)	< L.O.Q.		mg/kg			
	Sodium tetraborate (*)	< L.O.Q.		mg/kg			
	Orthoboric acid, sodium salt (*)	< L.O.Q.		mg/kg			
	Sodium perborate (*)	< L.O.Q.		mg/kg			
	Sodium Perborate Monohydrate (*)	< L.O.Q.		mg/kg			
	Sodium Perborate Tetrahydrate (*)	< L.O.Q.		mg/kg			
	Sodium perborate trihydrate (*)	< L.O.Q.		mg/kg			
	Sodium tetraborate (*)	< L.O.Q.		mg/kg			
	Sodium tetraborate decahydrate (*)	< L.O.Q.		mg/kg			
	Sodium tetraborate pentahydrate (*)	< L.O.Q.		mg/kg			
	Boric acid (*)	< L.O.Q.		mg/kg			

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Determination of the phthalate content - Tetrahydrofuran method - Test Method: UNI EN ISO 14389: 2014 Operating Conditions - Extraction in ultrasonic bath - Detection by GC-MS analysis	Phthalates (*)						
	Dibutyl Phthalate (DBP) (CAS N. 84-74-2)	< L.O.Q.	<0,001	%	0,001		Pass
	Bis-2-Ethylhexyl Phthalate (DEHP) (CAS N. 117-81-7)	< L.O.Q.	<0,001	%	0,001		Pass
	Butyl Benzil Phthalate (BBP) (CAS N. 85-68-7)	< L.O.Q.	<0,001	%	0,001		Pass
	Butyl Benzil Phthalate (BBP) (CAS N. 85-68-7)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-n-octyl Phthalate (DnOP) (CAS N. 117-84-0)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-iso-decil Phthalate (DIDP) (CAS N. 68515-49-1)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-isobutyl Phthalate (DIBP) (CAS N. 84-69-5)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-n-hexyl Phthalate (DnHP) (CAS N. 84-75-3)	< L.O.Q.	<0,001	%	0,001		Pass
	Bis (2-Methoxyethyl) Phthalate (DMEP) (CAS N.117-82-8)	< L.O.Q.	<0,001	%	0,001		Pass
	Diundecil Phthalate (DHNUP) (CAS N. 68515-42-4)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-isoheptyl Phthalate (DIHP) (CAS N. 71888-89-6)	< L.O.Q.	<0,001	%	0,001		Pass
	Dipentyl Phthalate (DPP) (CAS N. 131-18-0)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-isopentyl Phthalate (DIPP) (CAS N. 605-50-5)	< L.O.Q.	<0,001	%	0,001		Pass
	N-pentyl-isopentyl phthalate (NPIPP) (CAS 776297-69-9)	< L.O.Q.	<0,001	%	0,001		Pass
	Dinonyl phthalate (DNP) (CAS N. 84-76-4)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-n-propyl phthalate (DPRP) (CAS N. 131-16-8)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-cyclohexyl phthalate (DCHP) (CAS N.84-61-7)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-iso-octyl phthalate (DIOP) (CAS N. 27554-26-3)	< L.O.Q.	<0,001	%	0,001		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
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)	< L.O.Q.	<5	mg/kg	5	(1)	Pass
	Benzidine (CAS 92-87-5)	< L.O.Q.	<5	mg/kg	5		Pass
	4-Chloro-o-toluidine (CAS N. 95-69-2)	< L.O.Q.	<5	mg/kg	5		Pass
	2-Naphthylamine (CAS N. 91-59-8)	< L.O.Q.	<5	mg/kg	5	(1)	Pass
	o-Aminoazotoluene (CAS 97-56-3)	< L.O.Q.	<5	mg/kg	5		Pass
	5-nitro-o-toluidine (CAS 99-55-8)	< L.O.Q.	<5	mg/kg	5		Pass
	4-Chloroaniline (CAS N. 106-47-8)	< L.O.Q.	<5	mg/kg	5		Pass
	4-methoxy-m-phenylenediamine (CAS 615-05-04)	< L.O.Q.	<5	mg/kg	5		Pass
	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

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
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
	Trimethyl tin (TMT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Triocetyl tin (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)						
	Perfluoro-n-octanoic acid (PFOA) (CAS N. 335-67-1)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-nonanoic acid (PFNA) (CAS N. 375-95-1)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorobutanesulfonic acid (PFBS) (CAS N.375-73-5)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorohexanesulfonic acid (PFHxS) (CAS N.355-46-4)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-hexanoic acid (PFHxA) (CAS N. 307-24-4)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorobutyric acid (PFBA) (CAS N.375-22-4)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-heptanoic acid (PFHpA) (CAS N.375-85-9)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-decanoic acid (PFDA) (CAS N.335-76-2)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoroundecanoic acid (PFUnA) (CAS N.4234-23-5)	< L.O.Q.	<1	µg/m2	1		Pass

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	Perfluorododecanoic acid (PFDoA) (CAS N.307-55-1)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorotridecanoic acid (PFTrA) (CAS N.72629-94-8)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorotetradecanoic acid (PFTeA) (CAS N.376-06-7)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-1- heptanesulfonic acid (PFHpS) (CAS N.375-92-8)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorodecanesulfonic acid (PFDS) (CAS N.335-77-3)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (CAS N.172155-07-6)	< L.O.Q.	<1	µg/m2	1		Pass
	7H-dodecafluoroheptanoic acid (HPFHpA) (CAS N.1546-95-8)	< L.O.Q.	<1	µg/m2	1		Pass
	2H,2H,3H,3H-perfluoroundecanoic acid (H4PFUnA) (CAS N.34598-33-9)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-Perfluorooctanesulphonic acid (1H,1H,2H,2H-PFOS) (CAS N 27619-97-2)	< L.O.Q.	<1	µg/m2	1		Pass
	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) (CAS N.1691-99-2)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorooctylacrylate (6:2 FTA) (CAS N. 17527-29-6)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTA) (CAS N.27905-45-9)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTA) (CAS N.27905-45-9)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorooctane sulfonamide (PFOSA) (CAS N. 754-91-6)	< L.O.Q.	<1	µg/m2	1		Pass
	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) (CAS N.31506-32-8)	< L.O.Q.	<1	µg/m2	1		Pass
	N-ethylperfluoro-1-octanesulfonamide (N- EtFOSA) (CAS N. 4151-50-2)	< L.O.Q.	<1	µg/m2	1		Pass
	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) (CAS N. 24448-09-7)	< L.O.Q.	<1	µg/m2	1		Pass
Determination of FTOH in coated material by GC-MS Inhouse Method: CPSD-AN-00667 V8 Operating Conditions -Solvent extraction and determination by GC-MS QQQ							
	2- Perfluorobutylethanol (4:2 FTOH) (CAS N.2043-47-2)	< L.O.Q.	<10	µg/m2	10		Pass
	2- Perfluorohexylethanol (6:2 FTOH) (CAS N.647-42-7)	< L.O.Q.	<10	µg/m2	10		Pass
	2-Perfluorooctylethanol (8:2 FTOH) (CAS N.678-39-7)	< L.O.Q.	<10	µg/m2	10		Pass
	2-Perfluorodecylethanol (10:2 FTOH) (CAS N865-86-1)	< L.O.Q.	<10	µg/m2	10		Pass

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LABORATORY REPORT n° 1825069/E1 - Amendment of 30/10/2018

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
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	Perfluorooctanesulfonic acid (PFOS) (CAS N.1763-23-1)	< L.O.Q.	<1	µg/m2	1		Pass
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) (*) 1,3-Dichlorobenzene (CAS N.541-73-1) (*) 1,4-Dichlorobenzene (CAS N.106-46-7) (*) 1,2,3-Trichlorobenzene (CAS N.87-61-6) (*) 1,2,4 Trichlorobenzene (CAS N.120-82-1) (*) 1,3,5-Trichlorobenzene (CAS N.108-70-3) (*) 1,2,3,4-Tetrachlorobenzene (CAS N.634-66-2) (*) 1,2,3,5-Tetrachlorobenzene (CAS N.634-90-2), 1,2,4,5-Tetrachlorobenzene (CAS N.95-94-3) (*) Pentachlorobenzene (CAS N.608-93-5) (*) Hexachlorobenzene (CAS N.118-74-1) (*) Chlorobenzene (CAS N.108-90-7) (*) a,a-Dichlorotoluene (CAS N.98-87-3) (*) alpha, alpha, alpha 4-tetrachlorotoluene (CAS N.5216-25-1) (*) Benzotrìchloride (CAS N.98-07-7) (*) Benzyl chloride (CAS 100-44-7) (*)	< 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. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1 <0,1	mg/kg mg/kg	0,1 0,1		Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

Continuing...

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


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



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BESANI SRL
VIA PER GALLARATE 50/A
21010 BESNATE VA
LABORATORY REPORT n° 1825069/E1 - Amendment of 30/10/2018

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
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
	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
	2,4- Dichlorophenol (CAS N. 120-83-2)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,5 Dichlorophenol (CAS N.583-78-8)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	3,5- Dichlorophenol (CAS N.591-35-5)	< 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
	Monochlorophenol	< 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) (*)	< L.O.Q.	<10	ppm	10	
Michler's Base (CAS101-61-1) (*)		< L.O.Q.	<10	mg/kg	10		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
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) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Ethylbenzene (CAS 100-41-4) (*)	< L.O.Q.	<10	mg/kg	10		Pass
Bisphenol A, in plastics and textiles - Internal Method CPSD-AN-00169-MTHD rev 25 <u>Operating Conditions</u> Solvent Extraction and detection by LCMS	Bisphenol A (CAS 80-05-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
	Test method to quantitatively determine polycyclic aromatic Hydrocarbons (PAH) in footwear materials - Test Method: UNI CEN ISO TS 16190: 2013 <u>Operating Conditions</u> - Determination by GC-MS analysis	Polycyclic Aromatic Hydrocarbons (PAH)					
	Anthracene (CAS 120-12-7)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Pyrene (CAS 129-00-0)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[g,h,i]perylene (CAS 191-24-2)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[e]pyrene (CAS 192-97-2)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Indeno[1,2,3-cd]pyrene (CAS 193-39-5)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[j]fluoranthene (CAS 205-82-3)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[b]fluoranthene (CAS 205-99-2)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Fluoranthene (CAS 206-44-0)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[k]fluoranthene (CAS 207-08-9)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Acenaphthylene (CAS 208-96-8)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Chrysene (CAS 218-01-9)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[a]pyrene (CAS 50-32-8)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Dibenzo[a,h]anthracene (CAS 53-70-3)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[a]anthracene (CAS 56-55-3)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Acenaphthene (CAS 83-32-9)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Phenanthrene (CAS 85-01-8)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Naphtalene (CAS 91-20-3)	< L.O.Q.	<0,2	mg/kg	0,2		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
Determination of formaldehyde Part 1: Free and hydrolyzed formaldehyde (water extraction method) - Test Method: UNI EN ISO 14184-1: 2011 Operating Conditions - Calibration through linear regression between 0,15 and 0,3 µg/ml - Determination by UV-VIS spectrophotometer	Free and hydrolysed formaldehyde (CAS 50-00-0)	< L.O.Q.	<16	mg/kg	16		Pass
Determination of flame retardants - Test method: ISO 17881-1: 2016 + ISO 17881-2: 2016 + CPSD AN 00131 Operating Conditions - Solvent extraction - Determination by GC-MS and LC-MS	Flame retardants Tris(2-chloroethyl)phosphate (TCEP) (*) Decabromodiphenyl ether (DecaBDE) CAS N. 1163-19-5 (*) Tris (2,3-dibromopropyl)-phosphate (TRIS) (*) Penta-bromodiphenyl ether (PentaBDE) (*) Octa-bromodiphenyl ether (OctaBDE) (*) Bis(2,3-dibromopropyl)phosphate (BIS) or (BBP) (*) Tris (1-aziridinyl)-phosphine oxide (TEPA) (*) Monobromo biphenyls (MonoBB) (*) Dibromo biphenyls (DiBB) (*) Tribromo biphenyls (TriBB) (*) Tetrabromo biphenyls (TetraBB) (*) Pentabromo biphenyls (PentaBB) (*) Hexabromo biphenyls (HexaBB) (*) Heptabromo biphenyls (HeptaBB) (*) Octabromo biphenyls (OctaBB) (*) Nonabromo biphenyls (NonaBB) (*) Decabromo biphenyl (DecaBB) (*) Tetrabromo-bisphenol A (TBBPA) (*) Exabromocyclododecane (HBCDD) (*) 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP) (*) Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) (*)	< L.O.Q.	<1	mg/kg	1		Pass
		< L.O.Q.	<10	mg/kg	10		Pass
		< L.O.Q.	<1	mg/kg	1		Pass
		< L.O.Q.	<5	mg/kg	5		Pass
		< L.O.Q.	<5	mg/kg	5		Pass
		< L.O.Q.	<5	mg/kg	5		Pass
		< L.O.Q.	<5	mg/kg	5		Pass
		< L.O.Q.	<5	mg/kg	5		Pass
		< L.O.Q.	<5	mg/kg	5		Pass
		< L.O.Q.	<5	mg/kg	5		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.	<5	mg/kg	5		Pass
		< L.O.Q.	<5	mg/kg	5		Pass
		< L.O.Q.	<5	mg/kg	5		Pass

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Ethylene glycol monomethyl ether acetate; 2-Methoxyethyl acetate (CAS N. 110-49-6) (*) Glycol; triglyme (TEGDME) (CAS N. 112-49-2) (*)	< L.O.Q. < L.O.Q.					
14350-2_SW	N-Nitrosocompounds N-Nitrosodiethanolamine (CAS N. 1116-54-7) (*) N-Nitrosodiethylamine (NDEA) (CAS N. 55-18-5) (*) N-Nitrosomorpholine (NMOR) (CAS N. 59-89-2) (*) N-nitroso N-methyl N-phenylamine (NMPHa); N-Methyl-N- nitrosoanilin (CAS N. 614-00-6) (*) N-Nitrosodi-n-butylamine (NDBA) (CAS N. 924-16-3) (*) N-Nitrosopiperidine (NPIP) (CAS N. 100-75-4) (*) N-Nitrosomethylethylamine (CAS N. 10595-95-6) (*) N-nitroso-N-ethyl-N-phenylamine (NEPhA); N-Ethyl-N-nitrosoanilin (CAS N. 612-64-6) (*) N-Nitrosodimethylamine (NDMA) (CAS N. 62-75-9) (*) N-Nitrosodi-n-propylamine (NDPA) (CAS N. 621-64-7) (*) N-Nitrosopyrrolidine (NPYR) (CAS N. 930-55-2) (*) p-Nitrosodiphenylamine (CAS N. 156-10-5) (*) N-Nitrosodiphenylamine (CAS N. 86-30-6) (*) N-Methyl-N'-nitro-N-nitrosoguanidine (CAS 70-25-7) (*)	< 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. < L.O.Q.		mg/kg	0,01		
In-house Method	Epichlorohydrin (CAS N. 106-89-8) (*) 1,3-Butadiene (CAS N. 106-99-0) (*) Acrylonitrile (CAS N. 107-13-1) (*) Ethyl acrylate (CAS N. 140-88-5) (*) Vinyl chloride (CAS N. 75-01-4) (*) Acrylamide (CAS N. 79-06-1) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.					
Detection of disperse dyestuffs - Test Method: DIN 54231: 2005 Operating Conditions - Solvent extraction - Determination by LC-MS analysis	Disperse Dyes Acid Red 114 (CAS N. 6459-94-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass

Continuing...

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


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


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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Acid Red 26 (CAS N. 3761-53-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Blue 26 (CAS N. 2580-56-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Green 4 (CAS N. 569-64-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Red 9 (CAS N. 569-61-9) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Violet 14 (CAS N. 632-99-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Black 38 (CAS N. 1937-37-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Blue 6 (CAS N. 2602-46-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Brown 95 (CAS N.16071-86-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Red 28 (CAS N. 573-58-0) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 1 (CAS N. 2475-45-8) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 102 (CAS N. 12222-97-8) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 106 (CAS N. 12223-01-7)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 124 (CAS N. 61951-51-7)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 26 (CAS N. 3860-63-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 3 (CAS N. 2475-46-9) (*)	< 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 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 3 (CAS N. 730-40-5)	< 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 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 3 (CAS N. 2832-40-8)	< 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 2 (CAS N. 60-11-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Acid Violet 49 (CAS N. 1694-09-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 14 (CAS N. 842-07-9) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Green 4 leuco base (CAS N. 129-73-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass

Continuing...

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LABORATORY REPORT n° 1825069/E1 - Amendment of 30/10/2018

Notes

< L.O.Q.: Not detectable analytically

(1) = If the use of this analytical method has detected 4-aminodiphenyl and/or 2-naphthylamine, 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.

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

Amendment of test report number 1825069

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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