


**CERTEST**

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RECEIPT 06/09/2018

TESTING DATES FROM 06/09/2018 TO 21/09/2018

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

## LABORATORY REPORT n° 1825069 of 21/09/2018

**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		
Bisphenol A, in plastics and textiles - Internal Method CPSD-AN-00169-MTHD rev 25	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
Test method to quantitatively determine polycyclic aromatic Hydrocarbons (PAH) in footwear materials - Test Method: UNI CEN ISO TS 16190: 2013	X		
Determination of flame retardants - Test method: ISO 17881-1: 2016 + ISO 17881-2: 2016 + CPSD AN 00131	X		
Determination of formaldehyde Part 1: Free and hydrolized formaldehyde (water extraction method) - Test Method: UNI EN ISO 14184-1: 2011	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."
	<b>Sample 1825069.01</b>						
<b>Determination of ethoxylated alkylphenols.</b> <b>Part 2: indirect method</b> - Test Method: <b>ISO 18218-2: 2015</b> <u>Operating Conditions.</u> - Solvent extraction - Determination by GC-MS analysis	<b>4-n- Nonylphenol (4-n-NP)</b> <b>4-n-Octylphenol (n-OP)</b> <b>4-tert-Octylphenol (tert-4-OP)</b> <b>Nonylphenol (NPs)</b> <b>tert-Octylphenol (tert-OP)</b>	< 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
<b>Method for the detection and determination of alkylphenoethoxylates (APEO)</b> - Test Method: <b>ISO 18254: 2016</b> <u>Operating Conditions.</u> - Solvent extraction - Determination by LC-MS analysis	<b>Nonylphenoethoxylates (IGEPAL CO-630), (NPEOs)</b> <b>Octylphenoethoxylates (Triton X-100), (OPEOs 2-16)</b>	< L.O.Q. < L.O.Q.	<1 <1	mg/kg mg/kg	1 1		Pass Pass
<b>Determination of chlorinated hydrocarbons in leather. Chromatographic method for short-chain chlorinated paraffins (SCCP).</b> - Test Method: <b>UNI EN ISO 18219: 2015</b> <u>Operating Conditions.</u> - Ultrasonic extraction procedure: 60° C for 1h. - Determination by GC-ECNI-MS analysis.	<b>Amount of extracted SCCP (C10-C13) (*)</b>	< L.O.Q.	<10	mg/kg	10		Pass
<b>Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions; German version DIN EN 16711-1:2014</b> <u>Operating Conditions.</u> - Microwave digestion - Determination by ICP-MS analysis	<b>Heavy Metals</b> <b>Total Cadmium [Cd] Content</b> <b>Total Lead [Pb] Content</b>	< L.O.Q. < L.O.Q.	<0,5 <0,5	mg/kg mg/kg	0,5 0,5		Pass Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Total Mercury [Hg] Content	< L.O.Q.	<0,02	mg/kg	0,02		Pass
<b>Gb Extractable Heavy Metal in Textile GB 17593.2 (modified) &amp; Cr (VI) GB 17593.3 (modified)</b> - Inhouse Method: <b>CPSD-AN-00212-MTHD ver 6</b> <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
<b>Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions; German version DIN EN 16711-1:2014</b> <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			
	Di sodium tetraborato (*)	< 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			
<b>Determination of the phthalate content - Tetrahydrofuran method</b> - Test Method: <b>UNI EN ISO 14389: 2014</b> <u>Operating Conditions</u> - Extraction in ultrasonic bath - Detection by GC-MS analysis	<b>Phthalates (*)</b>						
	Dibutyl Phthalate (DBP)	< L.O.Q.	<0,001	%	0,001		Pass
	Bis-2-Ethylhexyl Phthalate (DEHP)	< 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
	Di-iso-nonyl Phthalate (DINP)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-n-octyl Phthalate (DnOP)	< L.O.Q.	<0,001	%	0,001		Pass

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	Di-iso-decil Phthalate (DIDP)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-isobutyl Phthalate (DIBP)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-n-hexyl Phthalate (DnHP)	< L.O.Q.	<0,001	%	0,001		Pass
	Bis (2-Methoxyethyl) Phthalate (DMEP)	< 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) (*)	< L.O.Q.	<0,001	%	0,001		Pass
	Dipentyl Phthalate (DPP)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-isopentyl Phthalate (DIPP)	< L.O.Q.	<0,001	%	0,001		Pass
	N-pentyl-isopentyl phthalate (NPIPP)	< L.O.Q.	<0,001	%	0,001		Pass
	Dinonyl phthalate (DNP)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-n-propyl phthalate (DPRP)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-cyclohexyl phthalate (DCHP)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-iso-octyl phthalate (DIOP)	< L.O.Q.	<0,001	%	0,001		Pass
<b>Detection of the use of certain Azo colorants accessible with and without extracting the fibres</b> - Test Method: <b>UNI EN 14362-1: 2017</b> <u>Operating Conditions</u> - Quantitative Detection: GC-MS - Confirmation by LC-DAD+LC MS	<b>Aromatic amines derived from azodyes on fabric</b>						
	4-Aminobiphenyl	< L.O.Q.	<5	mg/kg	5	(1)	Pass
	Benzidine	< L.O.Q.	<5	mg/kg	5		Pass
	4-Chloro-o-toluidine	< L.O.Q.	<5	mg/kg	5		Pass
	2-Naphthylamine	< L.O.Q.	<5	mg/kg	5	(1)	Pass
	o-Aminoazotoluene	< 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	< L.O.Q.	<5	mg/kg	5		Pass
	4-methoxy-m-phenylenediamine	< 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	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dimethoxybenzidine	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dimethylbenzidine	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-methylenedi-o-toluidine	< 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	< L.O.Q.	<5	mg/kg	5	TD A	Pass
	2,4,5-Trimethylaniline	< L.O.Q.	<5	mg/kg	5		Pass
	o-anisidine	< L.O.Q.	<5	mg/kg	5		Pass
	4-Aminoazobenzene	< L.O.Q.	<5	mg/kg	5		Pass
	2,4- Xylidine (CAS 95-68-1)	< L.O.Q.	<5	mg/kg	5		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	2,6-Xylidine	< L.O.Q.	<5	mg/kg	5		Pass
<b>Determination of Organotin Compounds in footwear materials</b> - Test Method: <b>UNI CEN ISO TS 16179: 2012</b> <u>Operating Conditions</u> - Methanol extraction + derivatization - Detection by GC-MS analysis	<b>Organotin compounds</b>						
	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
	Dioctyl 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
	Tetraethyltin (TeET)	< 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
	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 (TPPT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass	
<b>Determination of Perfluorinated Compounds</b> <b>Inhouse Method:</b> <b>CPSD-AN-00668 V9</b> <u>Operating Conditions</u> -Solvent extraction and determination by LC-MS QQQ+ GC-MS QQQ	<b>Perfluorinated Chemicals (PFCs)</b>						
	Perfluoro-n-octanoic acid (PFOA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-nonanoic acid (PFNA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorobutanesulfonic acid (PFBS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorohexanesulfonic acid (PFHxS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-hexanoic acid (PFHxA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorobutyric acid (PFBA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-heptanoic acid (PFHpA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-decanoic acid (PFDA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoroundecanoic acid (PFUnA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorododecanoic acid (PFDoA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorotridecanoic acid (PFTTrA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorotetradecanoic acid (PFTeA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-1- heptanesulfonic acid (PFHpS) (*)	< L.O.Q.	<1	µg/m2	1		Pass

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	Perfluorodecanesulfonic acid (PFDS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	7H-dodecafluoroheptanoic acid (HPFHpA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	2H,2H,3H,3H-perfluoroundecanoic acid (H4PFUnA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-Perfluorooctanesulphonic acid (1H,1H,2H,2H-PFOS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorooctylacrylate (6:2 FTA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorododecylacrylate (10:2 FTA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorooctane sulfonamide (PFOSA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) (*)	< L.O.Q.	<1	µg/m2	1		Pass
<b>Determination of FTOH in coated material by GC-MS</b> <b>Inhouse Method:</b> <b>CPSD-AN-00667 V8</b> <b>Operating Conditions</b> -Solvent extraction and determination by GC-MS QQQ							
	2- Perfluorobutylethanol (4:2 FTOH) (*)	< L.O.Q.	<10	µg/m2	10		Pass
	2- Perfluorohexylethanol (6:2 FTOH) (*)	< L.O.Q.	<10	µg/m2	10		Pass
	2-Perfluorooctylethanol (8:2 FTOH) (*)	< L.O.Q.	<10	µg/m2	10		Pass
	2-Perfluorodecylethanol (10:2 FTOH) (*)	< L.O.Q.	<10	µg/m2	10		Pass
<b>Perfluorinated surfactants</b> <b>- Test Method:</b> <b>UNI CEN TS 15968: 2010</b> <b>Operating Conditions</b> - Methanol ultrasonic extraction, 2h at 60°C - Determination by LC-MS MS							
	Perfluorooctanesulfonic acid (PFOS)	< L.O.Q.	<1	µg/m2	1		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."	
<b>Determination of the content of bonds based on chlorobenzene and chlorotoluene</b> - Test Method: <b>DIN 54232: 2010</b> <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 (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,4-Dichlorobenzene (*)	< 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 (*)	< 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 (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Hexachlorobenzene (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Chlorobenzene (*)	< 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 (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Benzyl chloride (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	<b>Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, particularly in leather and textiles</b> - Test Method: <b>BVL B 82.02-8: 2001-06</b> <u>Operating Conditions</u> - Detection by GC-MS analysis	Pentachlorophenol (PCP)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
		2,4,6-TriChlorophenol	< 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)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,3,5-TriChlorophenol (2,3,5-TCP)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,3,6-TriChlorophenol (2,3,6-TCP) & 2,4,5-TriChlorophenol (2,4,5-TCP)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,3,5,6-TetraChlorophenol (2,3,5,6-TeCP)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,3,4,6-TetraChlorophenol (2,3,4,6-TeCP)		< 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


LAB N. 1480



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





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 COMMITMENT  
**BESANI SRL**  
**VIA PER GALLARATE 50/A**  
**21010 BESNATE VA**
**LABORATORY REPORT n° 1825069 of 21/09/2018**

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	<b>2,3,4,5-TetraChlorophenol (2,3,4,5-TeCP)</b>	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	<b>2,4- Dichlorophenol</b>	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	<b>2,5 Dichlorophenol</b>	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	<b>3,5- Dichlorophenol</b>	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	<b>2,3- Dichlorophenol</b>	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	<b>3,4- Dichlorophenol</b>	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	<b>Monochlorphenol</b>	< L.O.Q.	<0,05	mg/kg	0,05		Pass
<b>Michler's Ketone and Base</b> - Inhouse Test Method: <b>IOP 55: 2016 Rev00</b> <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS DAD analysis							
	<b>Michler's Ketone (*)</b>	< L.O.Q.	<10	ppm	10		Pass
	<b>Michler's Base (*)</b>	< L.O.Q.	<10	mg/kg	10		Pass
<b>Bisphenol A, in plastics and textiles</b> - Internal Method <b>CPSD-AN-00169-MTHD rev 25</b> <u>Operating Conditions</u> Solvent Extraction and detection by LCMS							
	<b>Bisphenol A (*)</b>	< L.O.Q.	<0,1	mg/kg	0,1		Pass
<b>Test method to quantitatively determine polycyclic aromatic Hydrocarbons (PAH) in footwear materials</b> - Test Method: <b>UNI CEN ISO TS 16190: 2013</b> <u>Operating Conditions</u> - Determination by GC-MS analysis							
	<b>Polycyclic Aromatic Hydrocarbons (PAH)</b>						
	Anthracene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Pyrene	< 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	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Indeno[1,2,3-cd]pyrene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[j]fluoranthene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[b]fluorantene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Fluoranthene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[k]fluoranthene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Acenaphthylene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Chrysene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[a]pyrene	< 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	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Acenaphthene	< L.O.Q.	<0,2	mg/kg	0,2		Pass

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LAB N. 1480



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 of 21/09/2018**

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Phenanthrene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Naphtalene	< L.O.Q.	<0,2	mg/kg	0,2		Pass
<b>Determination of flame retardants</b> - Test method: <b>ISO 17881-1: 2016 + ISO 17881-2: 2016 + CPSD AN 00131</b> <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS and LC-MS	<b>Flame retardants</b>						
	Tris(2-chloroethyl)phosphate (TCEP) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Decabromodiphenyl ether (DecaBDE) CAS N. 1163-19-5 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Tris (2,3-dibromopropyl)-phosphate (TRIS) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Penta-bromodiphenyl ether (PentaBDE) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Octa-bromodiphenyl ether (OctaBDE) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Bis(2,3-dibromopropyl)phosphate (BIS) or (BBP) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Tris (1-aziridinyl)-phosphine oxide (TEPA) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Monobromo biphenyls (MonoBB) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Dibromo biphenyls (DiBB) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Tribromo biphenyls (TriBB) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Tetrabromo biphenyls (TetraBB) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Pentabromo biphenyls (PentaBB) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Hexabromo biphenyls (HexaBB) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Heptabromo biphenyls (HeptaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Octabromo biphenyls (OctaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Nonabromo biphenyls (NonaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Decabromo biphenyl (DecaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Tetrabromo-bisphenol A (TBPA) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Exabromocyclododecane (HBCDD) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP) (*)	< L.O.Q.	<5	mg/kg	5		Pass
	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) (*)	< L.O.Q.	<5	mg/kg	5		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
<b>Determination of formaldehyde</b> <b>Part 1: Free and hydrolized formaldehyde (water extraction method)</b> - Test Method: <b>UNI EN ISO 14184-1: 2011</b> <b>Operating Conditions</b> - Calibration through linear regression between 0,15 and 0,3 µg/ml - Determination by UV-VIS spectrophotometer	Free and hydrolysed formaldehyde	< L.O.Q.	<16	mg/kg	16		Pass

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LAB N. 1480



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**21010 BESNATE VA**
**LABORATORY REPORT n° 1825069 of 21/09/2018**

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	<b>Sample 1825069.02</b>						
<b>Headspace -GC-MS Inhouse Method</b>	<b>Chlorinated Solvents</b>						
	Dichloromethane (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Chloroform (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Tetrachloromethane (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1,2-Trichloroethane (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1-Dichloroethane (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,2-Dichloroethane (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Trichloroethylene (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Perchloroethylene (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1,1-Trichloroethane (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1,1,2-Tetrachloroethane (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1,2,2-Tetrachloroethane (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Pentachloroethane (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1-Dichloroethylene (CAS N. 75-35-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,2,3-Trichloropropane (CAS N96-18-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,2-Dibromoethane (CAS 106-93-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1-bromopropane n-propyl bromide (CAS 106-94-5) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	2,4-dinitrotoluene (CAS 121-14-2) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	2-methoxypropyl acetate (*)	< L.O.Q.	<1	mg/kg	1		Pass
<b>Solvent extraction and GC-MS analysis</b>	<b>Glycols</b>						
	1,2-diethoxyethane (*)	< L.O.Q.					
	1,2-dimethoxyethane; ethylene glycol dimethyl ether; EGDME (*)	< L.O.Q.					
	2-ethoxyethylacetate (*)	< L.O.Q.					
	Bis-(2-methoxyethyl) ether (*)	< L.O.Q.					
	Ethylene glycol (*)	< L.O.Q.					
	Ethylene glycol monoethyl ester (*)	< L.O.Q.					
	Ethylene glycol monomethyl ether (*)	< L.O.Q.					
	Ethylene glycol monomethyl ether acetate; 2-Methoxyethyl acetate (*)	< L.O.Q.					
	Glycol; triglyme (TEGDME) (*)	< L.O.Q.					
<b>14350-2_SW</b>	<b>N-Nitrosocompounds</b>						
	N-Nitrosodiethanolamine (*)	0,036					
	N-Nitrosodiethylamine (NDEA) (*)	< L.O.Q.					
	N-Nitrosomorpholine (NMOR) (*)	< L.O.Q.					
	N-nitroso N-methyl N-phenylamine (NMPHA); N-Methyl-N- nitrosoanilin (*)	< L.O.Q.					
	N-Nitrosodi-n-butylamine (NDBA) (*)	< L.O.Q.					
	N-Nitrosopiperidine (NPIP) (*)	< L.O.Q.					

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**BESANI SRL**  
**VIA PER GALLARATE 50/A**  
**21010 BESNATE VA**
**LABORATORY REPORT n° 1825069 of 21/09/2018**

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	N-Nitrosomethylethylamine (*)	< L.O.Q.					
	N-nitroso-N-ethyl-N-phenylamine (NEPhA); N-Ethyl-N-nitrosoanilin (*)	< L.O.Q.					
	N-Nitrosodimethylamine (NDMA) (*)	< L.O.Q.					
	N-Nitrosodi-n-propylamine (NDPA) (*)	< L.O.Q.					
	N-Nitrosopyrrolidine (NPYR) (*)	< L.O.Q.					
	p-Nitrosodiphenylamine (*)	< L.O.Q.					
	N-Nitrosodiphenylamine (CAS N. 86-30-6) (*)	< L.O.Q.					
	N-Methyl-N'-nitro-N-nitrosoguanidine (CAS 70-25-7) (*)	< L.O.Q.		mg/kg	0,01		
<b>In-house Method</b>	<b>Epichlorohydrin (*)</b>	< L.O.Q.					
	<b>1,3-Butadiene (*)</b>	< L.O.Q.					
	<b>Acrylonitrile (*)</b>	< L.O.Q.					
	<b>Ethyl acrylate (*)</b>	< L.O.Q.					
	<b>Vinyl chloride (*)</b>	< L.O.Q.					
	<b>Acrylamide (*)</b>	< L.O.Q.					
<b>Detection of disperse dyestuffs</b> - Test Method: <b>DIN 54231: 2005</b> <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS analysis	<b>Disperse Dyes</b>						
	Acid Red 114 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Acid Red 26 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Blue 26 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Green 4 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Red 9 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Violet 14 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Black 38 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Blue 6 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Brown 95 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Red 28 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 1 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 102 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 106	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 124	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 26 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 3 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 7 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Brown 1 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 1 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 3	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 11	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 149 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 37/59/76 (*)	< L.O.Q.	<10	mg/kg	10		Pass

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LAB N. 1480



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


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**COMMITTENT**  
**BESANI SRL**  
**VIA PER GALLARATE 50/A**  
**21010 BESNATE VA**

## LABORATORY REPORT n° 1825069 of 21/09/2018

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Disperse Red 1	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 11 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 17 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 1 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 3	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 9 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 2 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Acid Violet 49 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 14 (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Green 4 leuco base (*)	< L.O.Q.	<10	mg/kg	10		Pass

### 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.

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.

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 reproduction 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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 Dr. Verena BARTALINI – Laboratory Manager



LAB N. 1480



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

**LABORATORY REPORT n° 1825069 of 21/09/2018**



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