



CTL[®] GmbH

CHEMICAL-TECHNOLOGICAL LABORATORY

CTL[®] GmbH | Chemical-Technological Laboratory
Krackser Straße 12 | 33659 Bielefeld | Germany

B&G Amsterdam b.v.
Mr Schory
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THE NETHERLANDS

Bettina Kaiser

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[Date of order] 11.07.2011

[Date of delivery] 13.07.2011

[Date] 02.08.2011

CTL[®]-No	349280
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Test results

[Contact person]	Mr Schory
[Article]	2 samples of a tattoo colours
[Colours]	Silverback ink - XXX black - batch 042111xxx CTL No 1
	Silverback ink - White - batch w31051411s CTL No 2
[Order]	testing according to Resolution ResAP(2008)1 on requirements and criteria for the safety of tattoos and permanent make-up

▶ 1/6

[DE] Die Prüfergebnisse beziehen sich ausschließlich auf die Prüfgegenstände. Ohne schriftliche Genehmigung darf der Prüfbericht nicht auszugsweise vervielfältigt werden.

[GB] The denoted results are only valid for the tested sample. Without our written consent no single part of this report is allowed to be forwarded to third parties.

[F] Le resultat des examens se réfère uniquement aux objets testés. Sans autorisation écrite, le résultat des examens ne doit pas être partiellement reproduit.

[NL] De testresultaten hebben uitsluitend betrekking op de testobjecten. Zonder schriftelijke toestemming mag het testrapport niet in uittreksel worden vermenigvuldigd.

Bank	Sparkasse Gütersloh
Account No	400 53 45
Bank Code	478 500 65
SWIFT/BIG	WELADED 1 GTL
IBAN	DE 87 47850065 000 4005345

Address	Krackser Straße 12 33659 Bielefeld, Germany
Managing Director	Dr. rer. nat. Gerald Prior
Based in	Bielefeld
Register of Companies	AG Bielefeld, HRB 35-412
VAT ID No	DE 176 26 5000

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[Homepages]	ctl-bielefeld.de ctl-tattoo.net ctl-pmu.net



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CTL [®] -No	349280/1
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[Article] sample of a tattoo colour
[Colour] Silverback ink - XXX black

				passed		
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm; Legal Limit: ≤ 30 ppm				yes		
Biphenyl-4-ylamine	-	4-Methoxy-m-phenylenediamine	-		4,4'-Methylenebis-(2-chloroaniline)	-
Benzidine	-	4,4'-Methylenedianiline	-		4-Methyl-m-phenylenediamine	-
4-Chloro-o-toluidine	-	3,3'-Dichlorobenzidine	-		o-Anisidine	-
2-Naphthylamine	-	3,3'-Dimethoxybenzidine	-		4-Aminoazobenzene	-
o-Aminoazotoluene	-	3,3'-Dimethylbenzidine	-		6-Amino-2-ethoxynaphthaline	-
5-Nitro-o-toluidine	-	4,4'-Methylenedi-o-toluidine	-		4-Amino-3-fluorophenol	-
4-Chloroaniline	-	6-Methoxy-m-toluidine	-			
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1967/548/EEC of 27 June 1967 according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm				yes		
4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-		2,6-Xylidine	-
4,4'-Thiodianiline	-	Para-phenylenediamine	-			
o-Toluidine	-	2,4-Xylidine	-			
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L				yes		
Acid Green 16	-	Disperse Blue 1	-		Pigment Red 53	-
Acid Red 26	-	Disperse Blue 106	-		Pigment Violet 3	-
Acid Violet 17	-	Disperse Blue 124	-		Pigment Violet 39	-
Acid Violet 49	-	Disperse Blue 3	-		Solvent Blue 35	-
Acid Yellow 36	-	Disperse Blue 35	-		Solvent Orange 7	-
Basic Blue 7	-	Disperse Orange 3	-		Solvent Red 24	-
Basic Green 1	-	Disperse Orange 37	-		Solvent Red 49	-
Basic Red 1	-	Disperse Red 1	-		Solvent Violet 9	-
Basic Red 9	-	Disperse Red 17	-		Solvent Yellow 1	-
Basic Violet 1	-	Disperse Yellow 3	-		Solvent Yellow 2	-
Basic Violet 10	-	Disperse Yellow 9	-		Solvent Yellow 3	-
Basic Violet 3	-	Pigment Orange 5	-			

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ctl-pmu.net



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CTL [®] -No	349280/1
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[Article] sample of a tattoo colour
[Colour] Silverback ink - XXX black

			passed			
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1			yes			
	Limit	Amount				
Arsenic (As)	2 ppm	< 2 ppm				
Barium (Ba)	50 ppm	< 50 ppm				
Cadmium (Cd)	0.2 ppm	< 0.2 ppm				
Cobalt (Co)	25 ppm	< 25 ppm				
Chromium (Cr), VI	0.2 ppm	< 0.2 ppm				
Copper (Cu), soluble	25 ppm	< 25 ppm				
Mercury (Hg)	0.2 ppm	< 0.2 ppm				
Nickel (Ni)	As low as technically achievable	< 0.5 ppm				
Lead (Pb)	2 ppm	< 2 ppm				
Selenium (Se)	2 ppm	< 2 ppm				
Antimony (Sb)	2 ppm	< 2 ppm				
Tin (Sn)	50 ppm	< 50 ppm				
Zinc (Zn)	50 ppm	< 50 ppm				
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb			yes			
Naphthalene	-	Fluoranthene		-	Dibenzo(a,h)anthracene	-
Acenaphthylene	-	Pyrene		-	Indo (1,2,3-cd)pyrene	-
Acenaphthene	-	Benz(a)anthracene		-	Benzo(g,h,i)perylene	-
Fluorene	-	Chrysene		-	Benzene-a-pyrene (BaP)	-
Phenanthrene	0.14 ppm	Benzo(b)fluoranthene		-		
Anthracene	-	Benzo(k)fluoranthene		-	Total	0.14 ppm
Sterility (microbiological test), Part 5 Investigation of pseudomonads (King A + B) acc. to EU Resolution ResAP(2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 ¹ CFU/g						
Result: passed						

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CTL [®] -No	349280/2
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[Article] sample of a tattoo colour
[Colour] Silverback ink - White

						passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm; Legal Limit: ≤ 30 ppm						yes
Biphenyl-4-ylamine	-	4-Methoxy-m-phenylenediamine	-	4,4'-Methylenebis-(2-chloroaniline)	-	
Benzidine	-	4,4'-Methylenedianiline	-	4-Methyl-m-phenylenediamine	-	
4-Chloro-o-toluidine	-	3,3'-Dichlorobenzidine	-	o-Anisidine	-	
2-Naphthylamine	-	3,3'-Dimethoxybenzidine	-	4-Aminoazobenzene	-	
o-Aminoazotoluene	-	3,3'-Dimethylbenzidine	-	6-Amino-2-ethoxynaphthaline	-	
5-Nitro-o-toluidine	-	4,4'-Methylenedi-o-toluidine	-	4-Amino-3-fluorophenol	-	
4-Chloroaniline	-	6-Methoxy-m-toluidine	-			
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1967/548/EEC of 27 June 1967 according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm						yes
4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-	2,6-Xylidine	-	
4,4'-Thiodianiline	-	Para-phenylenediamine	-			
o-Toluidine	-	2,4-Xylidine	-			
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L						yes
Acid Green 16	-	Disperse Blue 1	-	Pigment Red 53	-	
Acid Red 26	-	Disperse Blue 106	-	Pigment Violet 3	-	
Acid Violet 17	-	Disperse Blue 124	-	Pigment Violet 39	-	
Acid Violet 49	-	Disperse Blue 3	-	Solvent Blue 35	-	
Acid Yellow 36	-	Disperse Blue 35	-	Solvent Orange 7	-	
Basic Blue 7	-	Disperse Orange 3	-	Solvent Red 24	-	
Basic Green 1	-	Disperse Orange 37	-	Solvent Red 49	-	
Basic Red 1	-	Disperse Red 1	-	Solvent Violet 9	-	
Basic Red 9	-	Disperse Red 17	-	Solvent Yellow 1	-	
Basic Violet 1	-	Disperse Yellow 3	-	Solvent Yellow 2	-	
Basic Violet 10	-	Disperse Yellow 9	-	Solvent Yellow 3	-	
Basic Violet 3	-	Pigment Orange 5	-			

▶ 4/6

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CTL [®] -No	349280/2
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[Article] sample of a tattoo colour
[Colour] Silverback ink - White

			passed			
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1			yes			
	Limit	Amount				
Arsenic (As)	2 ppm	< 2 ppm				
Barium (Ba)	50 ppm	< 50 ppm				
Cadmium (Cd)	0.2 ppm	< 0.2 ppm				
Cobalt (Co)	25 ppm	< 25 ppm				
Chromium (Cr), VI	0.2 ppm	< 0.2 ppm				
Copper (Cu), soluble	25 ppm	< 25 ppm				
Mercury (Hg)	0.2 ppm	< 0.2 ppm				
Nickel (Ni)	As low as technically achievable	< 0.5 ppm				
Lead (Pb)	2 ppm	< 2 ppm				
Selenium (Se)	2 ppm	< 2 ppm				
Antimony (Sb)	2 ppm	< 2 ppm				
Tin (Sn)	50 ppm	< 50 ppm				
Zinc (Zn)	50 ppm	< 50 ppm				
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb			yes			
Naphthalene	-	Fluoranthene		-	Dibenzo(a,h)anthracene	-
Acenaphthylene	-	Pyrene		-	Indo (1,2,3-cd)pyrene	-
Acenaphthene	-	Benz(a)anthracene		-	Benzo(g,h,i)perylene	-
Fluorene	-	Chrysene		-	Benzene-a-pyrene (BaP)	-
Phenanthrene	0.07 ppm	Benzo(b)fluoranthene		-		
Anthracene	-	Benzo(k)fluoranthene		-	Total	0.07 ppm
Sterility (microbiological test), Part 5 Investigation of pseudomonads (King A + B) acc. to EU Resolution ResAP(2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 ¹ CFU/g			< 1.0 x 10 ⁰ CFU/g			
Result: passed						

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CTL [®] -No	349280/2
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[Article] sample of a tattoo colour

[Colour] Silverback ink - White

Test	Test procedure/Test method	Result
Anaerobes sulfite-reducing sporulating bacteria	acc. to ASU §64 LFGB L59.00-4	< 1.0 x 10 ⁰ CFU/g
Aerobes mesophilic sporulating bacteria	acc. to ASU §64 LFGB L06.00-18	< 1.0 x 10 ⁰ CFU/g

Yours sincerely

CTL[®] GmbH Bielefeld

i. A. Bettina Kaiser



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[Date of order] 11.01.2012
[Date of delivery] 13.01.2012
[Date] 09.02.2012

CTL[®]-No	351526
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Test results

[Contact person] Mr Schory

[Article] 4 samples of a tattoo colours SILVER BACK, grey-wash ink
different darkness/concentrations in each bottle:

[Colours]

XXX1 light	CTL No 1
XXX2 light-medium	CTL No 2
XXX3 medium	CTL No 3
XXX4 dark	CTL No 4

[Order] testing according to COE Resolution ResAP(2008)1
on requirements and criteria for the safety of tattoos and permanent make-up

[DE] Die Prüfergebnisse beziehen sich ausschließlich auf die Prüfgegenstände. Ohne schriftliche Genehmigung darf der Prüfbericht nicht auszugsweise vervielfältigt werden.

[GB] The denoted results are only valid for the tested sample. Without our written consent no single part of this report is allowed to be forwarded to third parties.

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CTL [®] -No	351526/1
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[Article/Colour] Silver back, grey-wash
[Concentration] XXX1 light

				passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to COE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm; Legal Limit: ≤ 30 ppm				not detectable
Biphenyl-4-ylamine	-	4-Methoxy-m-phenylenediamine	-	yes
Benzidine	-	4,4'-Methylenedianiline	-	
4-Chloro-o-toluidine	-	3,3'-Dichlorobenzidine	-	
2-Naphthylamine	-	3,3'-Dimethoxybenzidine	-	
o-Aminoazotoluene	-	3,3'-Dimethylbenzidine	-	
5-Nitro-o-toluidine	-	4,4'-Methylenedi-o-toluidine	-	
4-Chloroaniline	-	6-Methoxy-m-toluidine	-	
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1967/548/EEC of 27 June 1967 according to COE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm				
4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-	yes
4,4'-Thiodianiline	-	Para-phenylenediamine	-	
o-Toluidine	-	2,4-Xylidine	-	
Dyestuffs, Part 2 acc. to COE Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L				not detectable
Acid Green 16	-	Disperse Blue 1	-	yes
Acid Red 26	-	Disperse Blue 106	-	
Acid Violet 17	-	Disperse Blue 124	-	
Acid Violet 49	-	Disperse Blue 3	-	
Acid Yellow 36	-	Disperse Blue 35	-	
Basic Blue 7	-	Disperse Orange 3	-	
Basic Green 1	-	Disperse Orange 37	-	
Basic Red 1	-	Disperse Red 1	-	
Basic Red 9	-	Disperse Red 17	-	
Basic Violet 1	-	Disperse Yellow 3	-	
Basic Violet 10	-	Disperse Yellow 9	-	
Basic Violet 3	-	Pigment Orange 5	-	
		Pigment Red 53	-	
		Pigment Violet 3	-	
		Pigment Violet 39	-	
		Solvent Blue 35	-	
		Solvent Orange 7	-	
		Solvent Red 24	-	
		Solvent Red 49	-	
		Solvent Violet 9	-	
		Solvent Yellow 1	-	
		Solvent Yellow 2	-	
		Solvent Yellow 3	-	

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CTL [®] -No	351526/1
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[Article/Colour] Silver back, grey-wash
[Concentration] XXX1 light

			passed			
Heavy metals, Part 3 acc. to COE Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to COE ResAP(89)1			yes			
	Limit	Amount				
Arsenic (As)	2 ppm	< 2 ppm				
Barium (Ba)	50 ppm	< 50 ppm				
Cadmium (Cd)	0.2 ppm	< 0.2 ppm				
Cobalt (Co)	25 ppm	< 25 ppm				
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Mercury (Hg)	0.2 ppm	< 0.1 ppm				
Nickel (Ni)	As low as technically achievable	< 0.5 ppm				
Lead (Pb)	2 ppm	< 2 ppm				
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Naphthalene	-	Fluoranthene		-	Dibenzo(a,h)anthracene	-
Acenaphthylene	-	Pyrene		-	Indo (1,2,3-cd)pyrene	-
Acenaphthene	-	Benz(a)anthracene		-	Benzo(g,h,i)perylene	-
Fluorene	-	Chrysene		-	Benzene-a-pyrene (BaP)	-
Phenanthrene	-	Benzo(b)fluoranthene		-		
Anthracene	-	Benzo(k)fluoranthene		-	Total	- ppm
Sterility (microbiological test), Part 5 Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP (2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 ¹ CFU/g			< 1.0 x 10 ⁰ CFU/g	yes		
Result: passed						

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[Article/Colour] Silver back, grey-wash

[Concentration] XXX1 light

Test	Test procedure/Test method	Result
Anaerobes sulfite-reducing sporulating bacteria	acc. to ASU §64 LFGB L59.00-4	< 1.0 x 10 ⁰ CFU/g
Aerobes mesophilic sporulating bacteria	acc. to ASU §64 LFGB L06.00-18	< 1.0 x 10 ⁰ CFU/g

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[Article/Colour] Silver back, grey-wash
[Concentration] XXX2 light-medium

				passed
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Biphenyl-4-ylamine	-	4-Methoxy-m-phenylenediamine	-	yes
Benzidine	-	4,4'-Methylenedianiline	-	
4-Chloro-o-toluidine	-	3,3'-Dichlorobenzidine	-	
2-Naphthylamine	-	3,3'-Dimethoxybenzidine	-	
o-Aminoazotoluene	-	3,3'-Dimethylbenzidine	-	
5-Nitro-o-toluidine	-	4,4'-Methylenedi-o-toluidine	-	
4-Chloroaniline	-	6-Methoxy-m-toluidine	-	
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4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-	yes
4,4'-Thiodianiline	-	Para-phenylenediamine	-	
o-Toluidine	-	2,4-Xylidine	-	
Dyestuffs, Part 2 acc. to COE Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L				not detectable
Acid Green 16	-	Disperse Blue 1	-	yes
Acid Red 26	-	Disperse Blue 106	-	
Acid Violet 17	-	Disperse Blue 124	-	
Acid Violet 49	-	Disperse Blue 3	-	
Acid Yellow 36	-	Disperse Blue 35	-	
Basic Blue 7	-	Disperse Orange 3	-	
Basic Green 1	-	Disperse Orange 37	-	
Basic Red 1	-	Disperse Red 1	-	
Basic Red 9	-	Disperse Red 17	-	
Basic Violet 1	-	Disperse Yellow 3	-	
Basic Violet 10	-	Disperse Yellow 9	-	
Basic Violet 3	-	Pigment Orange 5	-	
		Pigment Red 53	-	
		Pigment Violet 3	-	
		Pigment Violet 39	-	
		Solvent Blue 35	-	
		Solvent Orange 7	-	
		Solvent Red 24	-	
		Solvent Red 49	-	
		Solvent Violet 9	-	
		Solvent Yellow 1	-	
		Solvent Yellow 2	-	
		Solvent Yellow 3	-	

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CTL [®] -No	351526/2
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[Article/Colour] Silver back, grey-wash
[Concentration] XXX2 light-medium

			passed			
Heavy metals, Part 3 acc. to COE Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to COE ResAP(89)1			yes			
	Limit	Amount				
Arsenic (As)	2 ppm	< 2 ppm				
Barium (Ba)	50 ppm	< 50 ppm				
Cadmium (Cd)	0.2 ppm	< 0.2 ppm				
Cobalt (Co)	25 ppm	< 25 ppm				
Chromium (Cr), VI	0.2 ppm	< 0.2 ppm				
Copper (Cu), soluble	25 ppm	< 25 ppm				
Mercury (Hg)	0.2 ppm	< 0.2 ppm				
Nickel (Ni)	As low as technically achievable	< 0.1 ppm				
Lead (Pb)	2 ppm	< 2 ppm				
Selenium (Se)	2 ppm	< 2 ppm				
Antimony (Sb)	2 ppm	< 2 ppm				
Tin (Sn)	50 ppm	< 50 ppm				
Zinc (Zn)	50 ppm	< 50 ppm				
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to COE Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb			yes			
Naphthalene	-	Fluoranthene		-	Dibenzo(a,h)anthracene	-
Acenaphthylene	-	Pyrene		-	Indo (1,2,3-cd)pyrene	-
Acenaphthene	-	Benz(a)anthracene		-	Benzo(g,h,i)perylene	-
Fluorene	-	Chrysene		-	Benzene-a-pyrene (BaP)	-
Phenanthrene	-	Benzo(b)fluoranthene		-		
Anthracene	-	Benzo(k)fluoranthene		-	Total	- ppm
Sterility (microbiological test), Part 5 Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP (2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 ¹ CFU/g						
Result: passed						

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CTL [®] -No	351526/3
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[Article/Colour] Silver back, grey-wash
[Concentration] XXX3 medium

				passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to COE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm; Legal Limit: ≤ 30 ppm				not detectable
Biphenyl-4-ylamine	-	4-Methoxy-m-phenylenediamine	-	yes
Benzidine	-	4,4'-Methylenedianiline	-	
4-Chloro-o-toluidine	-	3,3'-Dichlorobenzidine	-	
2-Naphthylamine	-	3,3'-Dimethoxybenzidine	-	
o-Aminoazotoluene	-	3,3'-Dimethylbenzidine	-	
5-Nitro-o-toluidine	-	4,4'-Methylenedi-o-toluidine	-	
4-Chloroaniline	-	6-Methoxy-m-toluidine	-	
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1967/548/EEC of 27 June 1967 according to COE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm				not detectable
4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-	yes
4,4'-Thiodianiline	-	Para-phenylenediamine	-	
o-Toluidine	-	2,4-Xylidine	-	
Dyestuffs, Part 2 acc. to COE Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L				not detectable
Acid Green 16	-	Disperse Blue 1	-	yes
Acid Red 26	-	Disperse Blue 106	-	
Acid Violet 17	-	Disperse Blue 124	-	
Acid Violet 49	-	Disperse Blue 3	-	
Acid Yellow 36	-	Disperse Blue 35	-	
Basic Blue 7	-	Disperse Orange 3	-	
Basic Green 1	-	Disperse Orange 37	-	
Basic Red 1	-	Disperse Red 1	-	
Basic Red 9	-	Disperse Red 17	-	
Basic Violet 1	-	Disperse Yellow 3	-	
Basic Violet 10	-	Disperse Yellow 9	-	
Basic Violet 3	-	Pigment Orange 5	-	

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CTL [®] -No	351526/3
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[Article/Colour] Silver back, grey-wash
[Concentration] XXX3 medium

Heavy metals, Part 3			Limit	Amount	passed	
acc. to COE Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to COE ResAP(89)1						
	Arsenic (As)		2 ppm	< 2 ppm		
	Barium (Ba)		50 ppm	< 50 ppm		
	Cadmium (Cd)		0.2 ppm	< 0.2 ppm		
	Cobalt (Co)		25 ppm	< 25 ppm		
	Chromium (Cr), VI		0.2 ppm	< 0.2 ppm		
	Copper (Cu), soluble		25 ppm	< 25 ppm		
	Mercury (Hg)		0.2 ppm	< 0.2 ppm		
	Nickel (Ni)		As low as technically achievable	< 0.1 ppm		
	Lead (Pb)		2 ppm	< 2 ppm		
	Selenium (Se)		2 ppm	< 2 ppm		
	Antimony (Sb)		2 ppm	< 2 ppm		
	Tin (Sn)		50 ppm	< 50 ppm		
	Zinc (Zn)		50 ppm	< 50 ppm		
PAH and BaP, Part 4					yes	
Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to COE Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb						
Naphthalene	-	Fluoranthene	-	Dibenzo(a,h)anthracene		-
Acenaphthylene	-	Pyrene	-	Indo (1,2,3-cd)pyrene		-
Acenaphthene	-	Benz(a)anthracene	-	Benzo(g,h,i)perylene		-
Fluorene	-	Chrysene	-	Benzene-a-pyrene (BaP)		-
Phenanthrene	-	Benzo(b)fluoranthene	-			
Anthracene	-	Benzo(k)fluoranthene	-	Total		- ppm
Sterility (microbiological test), Part 5						
Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP (2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 ¹ CFU/g						
Result: passed						

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CTL [®] -No	351526/4
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[Article/Colour] Silver back, grey-wash
[Concentration] XXX4 dark

						passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to COE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm; Legal Limit: ≤ 30 ppm				not detectable		yes
Biphenyl-4-ylamine	-	4-Methoxy-m-phenylenediamine	-	4,4'-Methylenebis-(2-chloroaniline)	-	
Benzidine	-	4,4'-Methylenedianiline	-	4-Methyl-m-phenylenediamine	-	
4-Chloro-o-toluidine	-	3,3'-Dichlorobenzidine	-	o-Anisidine	-	
2-Naphthylamine	-	3,3'-Dimethoxybenzidine	-	4-Aminoazobenzene	-	
o-Aminoazotoluene	-	3,3'-Dimethylbenzidine	-	6-Amino-2-ethoxynaphthaline	-	
5-Nitro-o-toluidine	-	4,4'-Methylenedi-o-toluidine	-	4-Amino-3-fluorophenol	-	
4-Chloroaniline	-	6-Methoxy-m-toluidine	-			
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1967/548/EEC of 27 June 1967 according to COE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm				not detectable		yes
4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-	2,6-Xylidine	-	
4,4'-Thiodianiline	-	Para-phenylenediamine	-			
o-Toluidine	-	2,4-Xylidine	-			
Dyestuffs, Part 2 acc. to COE Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L				not detectable		yes
Acid Green 16	-	Disperse Blue 1	-	Pigment Red 53	-	
Acid Red 26	-	Disperse Blue 106	-	Pigment Violet 3	-	
Acid Violet 17	-	Disperse Blue 124	-	Pigment Violet 39	-	
Acid Violet 49	-	Disperse Blue 3	-	Solvent Blue 35	-	
Acid Yellow 36	-	Disperse Blue 35	-	Solvent Orange 7	-	
Basic Blue 7	-	Disperse Orange 3	-	Solvent Red 24	-	
Basic Green 1	-	Disperse Orange 37	-	Solvent Red 49	-	
Basic Red 1	-	Disperse Red 1	-	Solvent Violet 9	-	
Basic Red 9	-	Disperse Red 17	-	Solvent Yellow 1	-	
Basic Violet 1	-	Disperse Yellow 3	-	Solvent Yellow 2	-	
Basic Violet 10	-	Disperse Yellow 9	-	Solvent Yellow 3	-	
Basic Violet 3	-	Pigment Orange 5	-			

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[Article/Colour]	Silver back, grey-wash
[Concentration]	XXX4 dark

Heavy metals, Part 3			Limit	Amount	passed	
acc. to COE Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to COE ResAP(89)1						
Arsenic (As)			2 ppm	< 2 ppm		
Barium (Ba)			50 ppm	< 50 ppm		
Cadmium (Cd)			0.2 ppm	< 0.2 ppm		
Cobalt (Co)			25 ppm	< 25 ppm		
Chromium (Cr), VI			0.2 ppm	< 0.2 ppm		
Copper (Cu), soluble			25 ppm	< 25 ppm		
Mercury (Hg)			0.2 ppm	< 0.2 ppm		
Nickel (Ni)			As low as technically achievable	< 0.1 ppm		
Lead (Pb)			2 ppm	< 2 ppm		
Selenium (Se)			2 ppm	< 2 ppm		
Antimony (Sb)			2 ppm	< 2 ppm		
Tin (Sn)			50 ppm	< 50 ppm		
Zinc (Zn)			50 ppm	< 50 ppm		
PAH and BaP, Part 4					yes	
Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to COE Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb						
Naphthalene	-	Fluoranthene	-	Dibenzo(a,h)anthracene		-
Acenaphthylene	-	Pyrene	-	Indo (1,2,3-cd)pyrene		-
Acenaphthene	-	Benz(a)anthracene	-	Benzo(g,h,i)perylene		-
Fluorene	-	Chrysene	-	Benzene-a-pyrene (BaP)		-
Phenanthrene	-	Benzo(b)fluoranthene	-			
Anthracene	-	Benzo(k)fluoranthene	-	Total		- ppm
Sterility (microbiological test), Part 5					Result: passed	
Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP (2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 ¹ CFU/g						

Yours sincerely

CTL® GmbH Bielefeld

i. A. Marion Hahn

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