



CTL<sup>®</sup> GmbH | Chemical-Technological Laboratory  
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[Date of order] 11.01.2012  
[Date of delivery] 13.01.2012  
[Date] 09.02.2012

<b>CTL<sup>®</sup>-No</b>	<b>351526</b>
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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

► 1/10

[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.

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[Article/Colour] Silver back, grey-wash

[Concentration] XXX1 light

				passed
<b>Azo-dyestuffs, Part 1a</b> 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	-	
<b>Azo-dyestuffs, Part 1b</b> 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	-	
<b>Dyestuffs, Part 2</b> 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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[Article/Colour] Silver back, grey-wash  
[Concentration] XXX1 light

			passed			
<b>Heavy metals, Part 3</b> 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			
	<b>Limit</b>	<b>Amount</b>				
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	< 0.1 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				
<b>PAH and BaP, Part 4</b> 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		-	<b>Total</b>	- ppm
<b>Sterility (microbiological test), Part 5</b> Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP (2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 <sup>1</sup> CFU/g			< 1.0 x 10 <sup>0</sup> CFU/g	yes		
<b>Result: passed</b>						

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[Article/Colour] Silver back, grey-wash

[Concentration] XXX1 light

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

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

				passed
<b>Azo-dyestuffs, Part 1a</b> 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	-	
<b>Azo-dyestuffs, Part 1b</b> 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	-	
<b>Dyestuffs, Part 2</b> 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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[Article/Colour] Silver back, grey-wash  
[Concentration] XXX2 light-medium

			passed			
<b>Heavy metals, Part 3</b> 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			
	<b>Limit</b>	<b>Amount</b>				
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				
<b>PAH and BaP, Part 4</b> 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		-	<b>Total</b>	- ppm
<b>Sterility (microbiological test), Part 5</b> Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP (2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 <sup>1</sup> CFU/g			---			
<b>Result: passed</b>						

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[Article/Colour] Silver back, grey-wash  
[Concentration] XXX3 medium

				passed
<b>Azo-dyestuffs, Part 1a</b> 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	-	
<b>Azo-dyestuffs, Part 1b</b> 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	-	
<b>Dyestuffs, Part 2</b> 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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[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		
<b>PAH and BaP, Part 4</b>					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	-	<b>Total</b>		- ppm
<b>Sterility (microbiological test), Part 5</b>					Result: passed	
Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP (2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 <sup>1</sup> CFU/g						

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

						passed
<b>Azo-dyestuffs, Part 1a</b> 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	-			
<b>Azo-dyestuffs, Part 1b</b> 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	-			
<b>Dyestuffs, Part 2</b> 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

				passed
<b>Heavy metals, Part 3</b> 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
		<b>Limit</b>	<b>Amount</b>	
	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	
<b>PAH and BaP, Part 4</b> 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	-	
Acenaphthylene	-	Pyrene	-	
Acenaphthene	-	Benz(a)anthracene	-	
Fluorene	-	Chrysene	-	
Phenanthrene	-	Benzo(b)fluoranthene	-	
Anthracene	-	Benzo(k)fluoranthene	-	
		<b>Total</b>	- ppm	
<b>Sterility (microbiological test), Part 5</b> Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP (2008)1 Methods: Oxidase test Detection limit: < 1.0 x 10 <sup>1</sup> CFU/g				---
<b>Result: passed</b>				

Yours sincerely

CTL<sup>®</sup> GmbH Bielefeld

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