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[Date of order] 12.12.2012  
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[Date] 22.01.2013

CTL®-No	356117_3
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## Test results

[Contact person]	Mr Schory
[Article]	sample of a tattoo colour
[Colours]	Silverback ink XXX Black, Lot TXB 080412TXBAS
[Order]	testing according to COE Resolution ResAP(2008)1 on requirements and criteria for the safety of tattoos and permanent make-up



Deutsche  
Akkreditierungsstelle  
D-PL-11062-01-00

not accredited tests are labelled with \*

[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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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
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CTL <sup>®</sup> -No	356117/5
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[Article]	sample of a tattoo colour
[Colour]	Silverback ink XXX Black, Lot TXB 080412TXBAS

				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; limit: as low as technically avoidable				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] sample of a tattoo colour  
[Colour] Silverback ink XXX Black, Lot TXB 080412TXBAS

			passed			
<b>Heavy metals, Part 3</b> acc. to COE Resolution ResAP(2008)1 Methods: ICP-MS method acc. to DIN 11885; 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	< 0.5 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. Benzo-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		-	Benzo-a-pyrene (BaP)	-
Phenanthrene	-	Benzo(b)fluoranthene		-		
Anthracene	-	Benzo(k)fluoranthene		-	<b>Total</b>	0 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>1</sup> CFU/g	yes		
<b>Result: passed</b>						

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[Article] sample of a tattoo colour  
[Colour] Silverback ink XXX Black, Lot TXB  
080412TXBAS

Test	Test procedure/Test method	Result	passed
<b>Anaerobes sulfite-reducing sporulating bacteria*</b>	acc. to ASU §64 LFGB L59.00-4	< 1.0 x 10 <sup>1</sup> CFU/g	yes
<b>Aerobes mesophilic sporulating bacteria*</b>	acc. to ASU §64 LFGB L06.00-18	< 1.0 x 10 <sup>1</sup> CFU/g	yes
<b>Result: passed</b>			

Yours sincerely

CTL<sup>®</sup> GmbH Bielefeld

i. A. Marion Heyde

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