



CTL[®] GmbH | Chemical-Technological Laboratory
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THE NETHERLANDS

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[Order date] 25.07.2018
[Date received] 30.07.2018
[Service date] 27.08.2018

CTL [®] no	384614
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Test results



not accredited tests are labelled with *

[Contact person]	Mr Schory
[Material]	Tattoo colour sample SILVERBACK INK
[Colour]	Black TH1RT3EN
[Batch no]	RH 062218SBA
[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.

[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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we assist, advise and test

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[Material]	Tattoo colour sample SILVERBACK INK
[Colour]	Black TH1RT3EN
[Batch no]	RH 062218SBA

				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; limit: as low as technically avoidable				not detectable	yes	
Biphenyl-4-arylamine	-	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	-			

caption: LFGB = German Food and Feed Code, - = not detectable

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[Batch no] RH 062218SBA

			passed
Heavy metals, Part 3 Acc. to CoE Resolution ResAP(2008)1 Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments, Legislation. Berlin: epubli. CTL Method 2, p. 83.			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. 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 -	Total -	
Sterility tests and results: see subsequent page.			---
Intermediate result Passed: Parts 1-4			

Additional information:

Result of heavy metal aluminium, perspiration solution: < 1 ppm

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Test	Test method	Result	passed
Sterility acc. to CoE Resolution ResAP(2008)1 (microbiological test) Part 5 Detection limit: < 10 CFU/g Test conducted by an accredited external laboratory.			
Spores of aerobes spore-forming, quantitative*	In-house method	< 10 CFU/g	yes
Spores of anaerobes spore-forming, quantitative*	In-house method	< 10 CFU/g	yes
Bacillus cereus presumptive, quantitative	§64 LFGB 00.00-33, mod.	< 10 CFU/g	yes
Sulphite reducing clostridia, quantitative	§64 LFGB 06.00-39, mod.	< 10 CFU/g	yes
Total viable count, aerobes mesophil 30°C	§64 LFGB 00.00-88/2, mod.	< 10 CFU/g	yes
Total viable count, anaerobes mesophil 30°C*	In-house method	< 10 CFU/g	yes
Pseudomonas sp., quantitative	§64 LFGB 06.00-43, mod.	< 10 CFU/g	yes
Intermediate result of sterility test: passed			

Tattoo colour sample SILVERBACK INK Black TH1RT3EN: Overall result: PASSED

Comment:
CTL GmbH assumes full responsibility for test results of tests conducted by an accredited, external laboratory.

Yours sincerely,
CTL[®] GmbH Bielefeld

i.A. Marion Heyde
Customer consultant

i.V. Helmut Meyer
Manager chemical-analytical laboratory

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