



we assist, advise and test

CTL [®] no	384614/1
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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
Biphenyl-4-arylamine	-	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	-	
		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	-	

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

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			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		-
Acenaphthylene	-	Pyrene		-
Acenaphthene	-	Benz(a)anthracene		-
Fluorene	-	Chrysene		-
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
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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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