

 $\textbf{CTL}^{\textcircled{B}}$ GmbH | Chemical-Technological Laboratory Krackser Straße 12 | 33659 Bielefeld | Germany

Eternal Ink, Inc. 7987 Lochlin Drive Brighton, MI 48116 USA

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Certificate

[Article]	Tattoo colour
[Brand]	Eternal Ink
[Colour/product code]	WHITE KNIGHT / E061
[Test]	Aromatic amines and carcinogens acc. to CoE Resolution ResAP(2008)1: Part 1a, Part 1b

Part 1a Testing of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to CoE Resolution ResAP(2008)1 Detection limit: 1 ppm; limit: as low as technically avoidable					DIN EN 14362, § 64 LFGB 82.02-2,3,4,9 GC/MS analysis HPLC analysis		
Amount	Amino	EC no	CAS no	Amount	Amine	EC no	CAS no
(ppm)	Amine			(ppm)			
	Biphenyl-4-ylamine	202-177-1	92-67-1		3,3'-Dimethoxybenzidine	204-355-4	119-90-4
	Benzidine	202-199-1	92-87-5		3,3'-Dimethylbenzidine	204-358-0	119-93-7
	4-Chloro-o-toluidine	202-411-6	95-69-2		4,4'-Methylenedi-o-toluidine	212-658-8	838-88-0
	2-Naphthylamine	202-080-4	91-59-8		6-Methoxy-m-toluidine	204-419-1	120-71-8
	o-Aminoazotoluene	202-591-2	97-56-3		4,4'-Methylenebis-(2-chloroaniline)	202-918-9	101-14-4
	5-Nitro-o-toluidine	202-765-8	99-55-8		4-Methyl-m-phenylenediamine	202-453-1	95-80-7
	4-Chloroaniline	203-401-0	106-47-8		o-Anisidine	201-963-1	90-04-0
	4-Methoxy-m-phenylenediamine	210-406-1	615-05-4		4-Aminoazobenzene	200-453-6	60-09-3
/	4,4'-Methylenedianiline	202-974-4	101-77-9		6-Amino-2-ethoxynaphthaline		293733-21-
(3,3'-Dichlorobenzidine	202-109-0	91-94-1		4-Amino-3-fluorophenol	418-230-9	399-95-1
Commissic according Detection I	carcinogens classified in categories on and mentioned in the Council Dird to CoE Resolution ResAP(2008)1 imit: 1 ppm			June 1967	DIN EN 14362, § 64 LFGB 82. GC/MS analysis HPLC analysis	02-2,3,4,9	
Amount				Amount			
(ppm)	Amine	EC no	CAS no	(ppm)	Amine	EC no	CAS no
	4,4'-Oxydianiline	202-977-0	101-80-4		Para-phenylenediamine	2003-404-7	106-50-3
	4,4'-Thiodianiline	205-370-9	139-65-1		2,4 Xylidine		95-68-1
	o-Toluidine	202-429-0	95-53-4		2,6 Xylidine		87-62-7

BIELEFELD, 25. JANUARY 2019



Helmut Meyer (Lab manager)

(---) = below detection limit

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Sparkasse Gütersloh



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[Test]	Dyestuffs acc. to CoE Resolution ResAP(2008)1: Part 2

Part 2 Testing of dyestuffs according to CoE Resolution ResAP(2008)1 Detection limit: 5 mg/l					DIN 54231 in the up-to-date legislation GC/MS analysis HPLC analysis TLC analysis		
Amount (ppm)	Colourant	Cl no	CAS no	Amount (ppm)	Colourant	Cl no	CAS no
	Acid Green 16	44025	12768-78-4		Disperse Orange 37		12223-33-5
	Acid Red 26	16150	3761-53-3		Disperse Red 1	11110	2872-52-8
	Acid Violet 17	42650	4129-84-4		Disperse Red 17	11210	3179-89-3
	Acid Violet 49	42640	1694-09-3		Disperse Yellow 3	11855	2832-40-8
	Acid Yellow 36	13065	587-98-4		Disperse Yellow 9	10375	6373-73-5
	Basic Blue 7	42595	2390-60-5		Pigment Orange 5	12075	3468-63-1
	Basic Green 1	42040	633-03-4		Pigment Red 53	15585	2092-56-0
	Basic Red 1	45160	989-38-8		Pigment Violet 3	42535:2	1325-82-2
	Basic Red 9	42500	569-61-9		Pigment Violet 39	42555:2	64070-98-0
	Basic Violet 1	42535	8004-87-3		Solvent Blue 35	61554	17354-14-2
	Basic Violet 10	45170	81-88-9		Solvent Orange 7	12140	3118-97-6
	Basic Violet 3	42555	548-62-9		Solvent Red 24	26105	85-83-6
	Disperse Blue 1	64500	2475-45-8		Solvent Red 49	45170:1	509-34-2
	Disperse Blue 106		12223-01-7		Solvent Violet 9	42555:1	467-63-0
	Disperse Blue 124		61951-51-7		Solvent Yellow 1	11000	60-09-3
	Disperse Blue 3	61505	2475-46-9		Solvent Yellow 2	11020	60-11-7
	Disperse Blue 35		12222-75-2		Solvent Yellow 3	11160	97-56-3
	Disperse Orange 3	11005	730-40-5				

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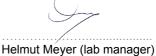
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[Article]	Tattoo colour
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[Test]	Heavy Metals acc. to CoE Resolution ResAP(2008)1: Part 3

Part 3 Testing of heavy metals according to CoE Resolution ResAP(2008)1				Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments, Legislation. Berlin: epubli. CTL method 2, p. 83.			
Amount (ppm)	Elements or compound	Limit (ppm)	Detection limit (ppm)	Amount (ppm)	Elements or compound	Limit (ppm)	Detection limi (ppm)
< 1	Arsenic (As)	≤2	1	< 0.1	Nickel (Ni)	As low as technically achievable	0.1
< 5	Barium (Ba)	≤ 50	5	< 1	Lead (Pb)	≤2	1
< 0.1	Cadmium (Cd)	<u>≤</u> 0.2	0.1	< 1	Selenium (Se)	≤2	1
< 5	Cobalt (Co)	≤ 25	5	< 1	Antimony (Sb)	≤ 2	1
< 0.1	Chromium (Cr), VI	<u>≤</u> 0.2	0.1	< 5	Tin (Sn)	<u>≤</u> 50	5
< 5	Copper (Cu), soluble	<u>≤</u> 25	5	< 5	Zinc (Zn)	≤ 50	5
< 0.1	Mercury (Hg)	≤ 0.2	0.1				

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[Test]	PAH and BaP acc. to CoE Resolution ResAP(2008)1: Part 4

Part 4EPA, ZEK 2008-01Testing of Polycyclic Aromatic Hydrocarbons (PAH) and Benzo-a-Pyrene (BaP) according to CoE Resolution ResAP(2008)1EPA, ZEK 2008-01Detection limit: PAH: 0.05 ppm as total; Benzo-a-pyrene: 0.5 ppb Limit: PAH: 0.5 ppm as total; Benzo-a-pyrene: 5 ppbEPA, ZEK 2008-01					
Amount		Amount			
(ppm)	Elements or compound	(ppm)	Elements or compound		
	Naphthalene		Benz(a)anthracene		
	Acenaphthylene		Chrysene		
	Acenaphthene		Benzo(b)fluoranthene		
	Fluorene		Benzo(k)fluoranthene		
	Phenanthrene		Dibenzo(a,h)anthracene		
	Anthracene		Indo (1,2,3-cd)pyrene		
	Fluoranthene		Benzo(g,h,i)perylene		
	Pyrene		Benzo-a-pyrene (BaP)		

Result as total: all below detection limit

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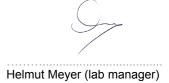
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Certificate

[Article]	Tattoo colour	
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[Colour/product code]	WHITE KNIGHT / E061	
[Test]	Sterility acc. to CoE Resolution ResAP(2008)1; ASU §64 LFGB L59.00-4;- L06.00-18: Part 5	
	tested on a single representative sample	

Part 5 Testing of sterility Detection limit: 1.0 x 10 ¹ CFU/g	
	Results
Microbiological test: pseudomonads = King A, King B, Oxidase test acc. to CoE ResAP(2008)1	< 1.0 x 10 ¹ CFU/g
Anaerobes sulfite-reducing sporulating bacteria acc. to ASU §64 LFGB L59.00-4	< 1.0 x 10 ¹ CFU/g
Aerobes mesophilic sporulating bacteria acc. to ASU §64 LFGB L06.00-18	< 1.0 x 10 ¹ CFU/g

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