



CTL[®] GmbH | Chemical-Technological Laboratory
Krackser Straße 12 | 33659 Bielefeld | Germany

MAX INTERNATIONAL SRL
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47838 Riccione Rn
ITALY

CTL [®] -No	354417+355010/18
[Order date]	---
[Arrival date CTL]	---
[Date]	26.06.2012/08.10.2012

www.ctf-tattoo.eu

Certificate

[Article] 1 sample of a tattoo colour
[Brand] FLASHING COLORS
[Colour] Sunset Yellow
[Test] Aromatic amines and carcinogens acc. to COE Resolution ResAP(2008)1: Part 1a, Part 1b

Part 1a				§ 64 LFGB 82.02-2,3,4,9			
Investigation 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				GC/MS Analysis HPLC Analysis			
Amount (ppm)	Amine	EC-No.	CAS-No.	Amount (ppm)	Amine	EC-No.	CAS-No.
---	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-ethoxynaphthalene	---	293733-21-8
---	3,3'-Dichlorobenzidine	202-109-0	91-94-1	---	4-Amino-3-fluorophenol	418-230-9	399-95-1

Part 1b				§ 64 LFGB 82.02-2,3,4,9			
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 Detection limit: 1 ppm				GC/MS Analysis HPLC Analysis			
Amount (ppm)	Amine	EC-No.	CAS-No.	Amount (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
---	2,4,5-Trimethylaniline	205-282-0	137-17-7				

BIELEFELD, 08. OCTOBER 2012

Dr. rer. nat. G. Prior

[---] = below detection limit

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The validity of the certificate is 2 years.

Bank Account No 400 53 45 Bank Code 478 500 55 SWIFT/BIC 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 VAT ID No DE 176 26 5000	[tel] +49 521 400 82 89 0 [fax] +49 521 446 51 52 [mail] info@ctf-bielefeld.de [homepage] ctf-bielefeld.de ctf-tattoo.net ctf-pmu.net
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Part 2 Investigation 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	CI-No.	CAS-No.	Amount (ppm)	Colourant	CI-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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 [Test] acc. to COE Resolution ResAP(2008)1: Part 3

Part 3 Investigation of Heavy Metals according to COE Resolution ResAP(2008)1 Detection limit: 0.01 ppm			DIN 38406-E29 Analysis acc. to COE ResAP(89)1 extraction using acidic perspiration		
Amount (ppm)	Elements or compound	Limit (ppm)	Amount (ppm)	Elements or compound	Limit (ppm)
---	Arsenic (As)	≤ 2	---	Nickel (Ni)	As low as technically achievable
---	Barium (Ba)	≤ 50	---	Lead (Pb)	≤ 2
---	Cadmium (Cd)	≤ 0.2	---	Selenium (Se)	≤ 2
---	Cobalt (Co)	≤ 25	---	Antimony (Sb)	≤ 2
---	Chromium (Cr, VI)	≤ 0.2	---	Tin (Sn)	≤ 50
---	Copper (Cu), soluble	≤ 25	---	Zinc (Zn)	≤ 50
---	Mercury (Hg)	≤ 0.2			

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

Part 4 Investigation of Polycyclic aromatic hydrocarbons (PAH) and Benzo-a-pyrene (BaP) according to COE ResAP(2008)1 Detection limit: PAH: 0.05 ppm as total; Benzo-a-pyrene: 0.5 ppb Limit: PAH: 0.5 ppm as total; Benzo-a-pyrene: 5 ppb		EPA, ZEK 2008-01	
Amount (ppm)	Elements or compound	Amount (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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[Date] 26.06.2012/08.10.2012www.cti-tattoo.eu**Certificate**[Article] 1 sample of a tattoo colour
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[Colour] Sunset Yellow
[Test] Sterility acc. to COE Resolution ResAP(2008)1; ASU §64 LFGB L59.00-4;- L06.00-18: Part 5

Part 5 Investigation of Sterility Detection limit: < 1.0 x 10 ⁰ CFU/g	
	Results
Microbiological test: pseudomonads = King A, King B, Oxidase test acc. to COE ResAP(2008)1	< 1.0 x 10 ⁰ CFU/g
Anaerobes sulfite-reducing sporulating bacteria acc. to ASU §64 LFGB L59.00-4	< 1.0 x 10 ⁰ CFU/g
Aerobes mesophilic sporulating bacteria acc. to ASU §64 LFGB L06.00-18	1.0 x 10 ⁰ CFU/g

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