



CTL® GmbH
CHEMICAL TECHNOLOGICAL LABORATORY

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

Intenze Products
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[Order date] —
[Delivery date] —
[Date] 19.10.2010

Certificate

[Article] 1 sample of a tattoo colour
[Brand] Intenze Ink
[Colour] Boris from Hungary - Egg Shell
[Test] Aromatic amines and carcinogens acc. to EU 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 EU Resolution ResAP(2008)1				GC/MS Analysis			
Detection limit: 1 ppm, Legal Limit: ≤ 30 ppm				HPLC Analysis			
Amount	Amine	EC-No.	CAS-No.	Amount	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	212-858-8	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'-Methylenbis-(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 1987/548/EEC of 27 June 1987 according to EU Resolution ResAP(2008)1				GC/MS Analysis			
Detection limit: 1 ppm				HPLC Analysis			
Amount	Amine	EC-No.	CAS-No.	Amount	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	139-85-1	---	2,4 Xyldine	---	95-68-1
---	o-Toluidine	202-429-0	95-53-4	---	2,6 Xyldine	---	67-82-7
---	2,4,5-Trimethylaniline	205-282-0	137-17-7				

BIELEFELD, 19TH OCTOBER 2010

Dr. rer. nat. G. Prior

[...] (follows document 1/11)

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Bank Sparkasse Göttersloh Account No 400 53 45 Bank Code 478 500 65 SWIFT/BIC WELADED1 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 178 26 5000	[tel] +49 521 400 82 89 0 [fax] +49 521 400 82 89 219 [mail] info@ctl-bielefeld.de [Homepage] ct-bielefeld.de ct-tattoo.net ctl-gmu.net
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[Test] acc. to EU Resolution ResAP(2008)1; Part 2

Part 2 Investigation of Dyestuffs according to EU 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	Colourant	CI-No	CAS No.	Amount	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	64070-88-0
---	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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--- = below detection limit

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[Test] acc. to EU Resolution ResAP(2008)1; Part 3

Part 3 Investigation of Heavy Metals according to EU Resolution ResAP(2008)1 Detection limit: 0.01 ppm			DIN 38406-E29 Analysis acc. to EU 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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[Article] 1 sample of a tattoo colour
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[Test] PAH and BaP acc. to EU Resolution ResAP(2008)1; Part 4

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

Result as total: 0.25 ppm

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[Colour]	Boris from Hungary - Egg Shell
[Test]	Sterility acc. to EU Resolution ResAP(2008)1: Part 5

Part 5 Investigation of Sterility Detection limit: $< 1.0 \times 10^2$ CFU/g	microbiological test: pseudomonads = King A, King B, Oxidase test acc. to ResAP(2008)1
Result	
$< 1.0 \times 10^2$ CFU/g	

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