



CTL® GmbH | Chemical-Technological Laboratory  
 Krackser Straße 12 | 33859 Bielefeld | Germany

Intenze Products  
 215 Rt. 17 South  
 Rochelle Park  
 07862 New Jersey  
 USA

CTL®-No 63145+64231+334326/49

[ Order date ] ---  
 [ Delivery date ] ---  
 [ Date ] 28.09.2010

## Certificate

[ Article ] 1 sample of a tattoo colour  
 [ Article-No ] ST1049GG  
 [ Colour ] Grasshopper Green  
 [ 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 Detection limit: 1 ppm; Legal Limit: ≤ 30 ppm				GC/MS Analysis 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	92-67-5	---	3,3'-Dimethylbenzidine	204-358-0	119-93-7
---	4-Chloro-o-toluidine	202-411-6	95-89-2	---	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	202-785-8	98-55-8	---	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	---	293733-21-8
---	3,3'-Dichlorobenzidine	202-109-0	81-94-1	---	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 EU Resolution ResAP(2008)1 Detection limit: 1 ppm				GC/MS Analysis 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	108-50-3
---	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	---	87-62-7
---	2,4,5-Trimethylaniline	205-282-0	137-17-7				

BIELEFELD, 28<sup>TH</sup> SEPTEMBER 2010

Dr. rer. nat. G. Prior

[-] = below detection limit

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Bank Sparkasse Gütersloh  
 Account No 400 53 45  
 Bank Code 478 500 65  
 SWIFT/BIC WELADED1GTL  
 IBAN DE 87 47850065 000 4005345

Address Krackser Straße 12  
 33859 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] +49 521 400 82 89 29  
 [e-mail] info@ctl-bielefeld.de  
 [web] ctl-bielefeld.de  
 [homepage] ctl-tattoo.net  
 [ftp] ctl-pnu.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	64070-98-0
---	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				

BIELÉFELD, 28<sup>th</sup> SEPTEMBER 2010

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[-] -> Internal detection limit

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 Account No 400 53 45  
 Bank Code 478 500 65  
 SWIFT/BIC WELADED 1 GTL  
 IBAN DE 87 47890055 000 4005345

Address Krackeer 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 179 28 5000

Phone +49 521 400 82 89 0  
 Fax +49 521 400 82 89 29  
 Email info@ctl-bielefeld.de  
 ctl-bielefeld.de  
 ctl-laboo.net  
 ctl-petu.net



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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			

BIELEFELD, 28<sup>TH</sup> SEPTEMBER 2010

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[ - ] = keine Daten vorhanden

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[Tel] +49 521 400 82 89 0  
 [Fax] +49 521 400 82 89 29  
 [Email] info@ctl-bielefeld.de  
 [E-Mail] ctl-bielefeld.de  
 [E-Mail] ctl-tattoo.net  
 [E-Mail] ctl-ptmu.net



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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
---	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	---	Benzene-a-pyrene (BaP)

Result as total: all below detection limit

BIELEFELD, 28<sup>TH</sup> SEPTEMBER 2010

  
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--- = Below detection limit

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 Based in Bielefeld  
 Register of Companies AG Bielefeld, HRB 35-412  
 VAT ID No DE 176 26 6000

[Tel] +49 521 400 82 89 0  
 [Fax] +49 521 400 82 89 29  
 [E-Mail] info@ctl-bielefeld.de  
 [E-Mail] ctl-bielefeld.de  
 [E-Mail] ctl-tattoo.net  
 [E-Mail] ctl-pmu.net



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[ Test ] Sterility acc. to EU Resolution ResAP(2008)1: Part 5

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

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BIELEFELD, 28<sup>TH</sup> SEPTEMBER 2010

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<b>Bank</b> Account No Bank Code SWIFT/BIC IBAN	Sparkasse Gütersloh 400 53 45 478 500 65 WELADED 1 GTL DE 87 47850065 000 4005345	<b>Address</b> Managing Director Based in Register of Companies VAT ID No	Krackser Straße 12 33659 Bielefeld, Germany Dr. rer. nat. Gerald Prior Bielefeld AG Bielefeld, HRB 35-412 DE 176 28 5000	[ Fax ] [ Tel ] [ Email ] [ Homepages ]	+49 521 400 82 89-0 +49 521 400 82 89-29 info@ctl-bielefeld.de ctl-bielefeld.de ctl-tattoo.net ctl-gmu.net
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