



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

Intenze Products  
215 Rt. 17 South  
Rochelle Park  
07662 New Jersey  
USA

CTL<sup>®</sup>-No 63146+64231+334326/143

[ Order date ] ---  
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[ Date ] 28.09.2010

## Certificate

[ Article ] 1 sample of a tattoo colour  
[ Article-No ] ST1143MDRUL  
[ Colour ] Mike Demasi's Raw Umber Light  
[ 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<br>Detection limit: 1 ppm; Legal Limit: ≤ 30 ppm                                     |                              |           |          | GC/MS Analysis<br>HPLC Analysis |                                     |            |             |
| Amount  | Amine                        | EC-No     | CAS-No   | Amount                          | Amine                               | EC-No      | CAS-No      |
| ---   | Biphenyl-4-ylamine           | 202-177-1 | 82-87-1  | ---                             | 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        | 212-668-8  | 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 | 97-95-3  | ---                             | 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 1957/548/EEC of 27 June 1967 according to EU Resolution ResAP(2008)1<br>Detection limit: 1 ppm |                              |           |          | GC/MS Analysis<br>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 | 139-65-1 | ---                             | 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

--- 1\* before detection limit

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Bank Sparkasse Gütersloh  
Account No 400 55 45  
Bank Code 478 900 65  
SWIFT/BIC WELADED 1 GTL  
IBAN DE 87 47890065 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 +49 521 400 82 89 29  
EMAIL info@ctl-bielefeld.de  
ctl-bielefeld.de  
ctl-tattoo.net  
ctl-pmu.net



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[ Test ] acc. to EU Resolution ResAP(2008)1; Part 2

| Part 2<br>Investigation of Dyestuffs according to EU Resolution ResAP(2008)1<br>Detection limit: 5 mg/L |                   |       |            | DIN 54231 in the up-to-date legislation<br>GC/MS Analysis<br>HPLC Analysis<br>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     | 28105   | 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   |  |                    |         |            |

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

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Bank Sparkasse Gütersloh  
Account No 400 53 45  
Bank Code 478 500 65  
SWIFT/BIC WELADED 1 GTL  
IBAN DE 87 47860055 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 36-412  
VAT ID No DE 176 26 9000

tel +49 521 400 82 89 0  
fax +49 521 400 82 89 29  
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| Part 3<br>Investigation of Heavy Metals according to EU Resolution ResAP(2008)1<br>Detection limit: 0.01 ppm |                      |             | DIN 38406-E29<br>Analysis acc. to EU ResAP(89)1<br>extraction using acidic perspiration |                     |                                  |
|--|----------------------|-------------|---|---------------------|----------------------------------|
| Amount (ppm)   | Element or compound  | Limit (ppm) | Amount (ppm)  | Element 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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[ - ] (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  
 33659 Bielefeld, Germany  
 Managing Director Dr. rer. nat. Gerald Prior  
 Bielefeld  
 Register of Companies AG Bielefeld, HRB 35-412  
 VAT ID No DE 176 26 5000

(T) +49 521 400 82 89 0  
 (F) +49 521 400 82 89 20  
 (E) info@ctl-bielefeld.de  
 (W) ct-bielefeld.de  
 (P) ct-artoo.net  
 (I) ct-pmu.net



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

| Part 4<br>Investigation of Polycyclic aromatic hydrocarbons (PAH) and Benzene-a-pyrene (BAP) according to ResAP(2008)1<br>Detection limit: PAH: 0.05 ppm as total; Benz-a-pyrene: 0.5 ppb<br>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   |
| 0.05 ppm  | 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: 0.05 ppm**

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[ - ] -> below detection limit

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 SWIFT/BIC WELADED1 GTL  
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 33659 Bielefeld, Germany  
 Managing Director Dr. rer. nat. Gerald Prior  
 Based in Bielefeld  
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 VAT ID No DE 176 26 5000

[ Tel ] +49 521 400 82 80 0  
 [ Fax ] +49 521 400 82 89 29  
 [ E-Mail ] info@ctl-bielefeld.de  
 [ Web ] ctl-bielefeld.de  
 [ Homepage ] ctl-tattoo.net  
 ctl-pmu.net



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

|   |  |
|---|--|
| <b>Part 5</b><br>Investigation of Sterility<br>Detection limit: $< 1.0 \times 10^6$ CFU/g | microbiological test:<br>pseudomonads = King A, King B,<br>Oxidase test acc. to ResAP(2008)1 |
| Result  |  |
| $< 1.0 \times 10^6$ CFU/g   |  |

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Bank Sparkasse Gütersloh  
Account No 400 63 45  
Bank Code 478 900 85  
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 35-452  
VAT ID No DE 176 26 5000

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