



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

I MAX INTERNATIONAL SRL
Viale Emilia 41
47838 Riccione Rn
ITALY

CTL[®]-No **354417+355010/11**

[Order date] ---
[Arrival date CTL] ---
[Date] 26.06.2012/08.10.2012

www.ctl-tattoo.eu

Certificate

[Article] 1 sample of a tattoo colour
[Brand] FLASHING COLORS
[Colour] Aqua
[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 | 92-87-1 | --- | 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 | 212-658-8 | 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 | --- | 293733-21-8 |
| --- | 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

[cb] The denoted results are only valid for the tested sample. Without our written consent no single part of this report is allowed to be forwarded to third parties

The validity of the certificate is 2 years.

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[Colour] Aqua
[Test] acc. to COE Resolution ResAP(2008)1: Part 2

| 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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[Colour] Aqua
[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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| | | |
|--|--|---|
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[Colour] Aqua
[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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[Article] 1 sample of a tattoo colour
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[Colour] Aqua
[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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