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

Certificate

[Article] 1 sample of a tattoo colour
[Article-No] ST1098JSB
[Colour] Japaneze Sumi Black
[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 | 92-87-5 | --- | 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 | 120-71-6 |
| --- | 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 1987/648/EEC of 27 June 1987 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 | 106-50-3 |
| --- | 4,4'-Thiodianiline | 205-370-9 | 139-65-1 | --- | 2,4 Xylydine | --- | 95-68-1 |
| --- | o-Toluidine | 202-429-0 | 95-53-4 | --- | 2,6 Xylydine | --- | 87-62-7 |
| --- | 2,4,5-Trimethylaniline | 205-282-0 | 137-17-7 | | | | |

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Dr. rer. nat. G. Prior

(-) = below detection limit

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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 | | | | |

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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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[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 |
| 0.06 ppm | 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 |
| 0.16 ppm | Pyrene | --- | Benzene-a-pyrene (BaP) |

Result as total: 0.22 ppm

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

| | |
|---|---|
| Part 5 Investigation of Sterility Detection limit: $< 1.0 \times 10^0$ CFU/g | microbiological test: pseudomonads = King A, King B, Oxidase test acc. to ResAP(2008)1 |
| Result | |
| $< 1.0 \times 10^0$ CFU/g | |

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