



CTL® GmbH
CHEMICAL TECHNOLOGICAL LABORATORY

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

Perma Blend
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CTL® no

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[Order date]

—

[Date received]

—

[Service date]

03.12.2018

tattoo lab.eu

Certificate

[Article]

Permanent cosmetic pigment

[Brand]

Perma Blend

[Colour/product code]

Bazooka / PBBZK

[Test]

Aromatic amines and carcinogens acc. to CoE Resolution ResAP(2008)1: Part 1a, Part 1b

Part 1a
Testing 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

DIN EN 14362, § 64 LFGB 82.02-2,3,4,9
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 | 92-67-1 | — | 3,3'-Dimethoxybenzidine | 204-355-4 | 119-80-4 |
| — | Benzidine | 202-199-1 | 92-87-5 | — | 3,3'-Dimethylbenzidine | 204-358-0 | 119-83-7 |
| — | 4-Chloro-o-toluidine | 202-411-6 | 95-89-2 | — | 4,4'-Methylened-i-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 | 108-47-8 | — | o-Anisidine | 201-983-1 | 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 | — | 283733-21-8 |
| — | 3,3'-Dichlorobenzidine | 202-109-0 | 91-94-1 | — | 4-Amino-3-fluorophenol | 418-230-9 | 399-95-1 |
| Part 1b Testing of carcinogens classified in categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1967/648/EEC of 27 June 1967 according to CoE Resolution ResAP(2008)1 Detection limit: 1 ppm | | | | DIN EN 14362, § 64 LFGB 82.02-2,3,4,9 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 Xyldine | — | 95-88-1 |
| — | 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, 03. DECEMBER 2018

Helmut Meyer (Lab manager)

(-/-) = below detection limit

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The validity of the certificate is 2 years.

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[Article] Permanent cosmetic pigment

[Brand] Perma Blend

[Colour/product code] Bazooka / PBBZK

[Test] Dyestuffs acc. to CoE Resolution ResAP(2008)1: Part 2

Part 2
Testing 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 | 4129-64-4 | --- | Disperse Red 17 | 11210 | 3179-69-3 |
| --- | 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 | 1325-62-2 |
| --- | 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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Heavy Metals acc. to CoE Resolution ResAP(2008)1: Part 3

Part 3
Testing of heavy metals according to CoE Resolution
ResAP(2008)1

Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments,
Legislation.
Berlin: epubli. CTL method 2, p. 83.

| Amount (ppm) | Elements or compound | Limit (ppm) | Detection limit (ppm) | Amount (ppm) | Elements or compound | Limit (ppm) | Detection limit (ppm) |
|-----------------|-------------------------|----------------|--------------------------|-----------------|-------------------------|-------------------------------------|--------------------------|
| < 1 | Arsenic (As) | ≤ 2 | 1 | < 0.1 | Nickel (Ni) | As low as technically achievable | 0.1 |
| < 5 | Barium (Ba) | ≤ 50 | 5 | < 1 | Lead (Pb) | ≤ 2 | 1 |
| < 0.1 | Cadmium (Cd) | ≤ 0.2 | 0.1 | < 1 | Selenium (Se) | ≤ 2 | 1 |
| < 5 | Cobalt (Co) | ≤ 25 | 5 | < 1 | Antimony (Sb) | ≤ 2 | 1 |
| < 0.1 | Chromium (Cr), VI | ≤ 0.2 | 0.1 | < 5 | Tin (Sn) | ≤ 50 | 5 |
| < 5 | Copper (Cu), soluble | ≤ 25 | 5 | < 5 | Zinc (Zn) | ≤ 50 | 5 |
| < 0.1 | Mercury (Hg) | ≤ 0.2 | 0.1 | | | | |

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[Test]

Sterility acc. to CoE Resolution ResAP(2008)1; ASU §64 LFGB L59.00-4; L06.00-18: Part 5
tested on a single representative sample

| | |
|--|---------------------------|
| Part 5 Testing of sterility Detection limit: 1.0×10^1 CFU/g | |
| Results | |
| Microbiological test: pseudomonads = King A, King B, Oxidase test acc. to CoE ResAP(2008)1 | $< 1.0 \times 10^1$ CFU/g |
| Anaerobes sulfite-reducing sporulating bacteria acc. to ASU §64 LFGB L59.00-4 | $< 1.0 \times 10^1$ CFU/g |
| Aerobes mesophilic sporulating bacteria acc. to ASU §64 LFGB L06.00-18 | $< 1.0 \times 10^1$ CFU/g |

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PAH and BAP acc. to CoE Resolution ResAP(2008)1: Part 4

Part 4

Testing of Polycyclic Aromatic Hydrocarbons (PAH) and Benzo-a-Pyrene (BaP)

according to CoE Resolution 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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.....
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