



HRB 35-412



ANALYSE- UND FACHBERATUNGSBÜRO

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CERTIFICATE

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Via Emilia 41 – Po. Box 240
47838 Riccone Rn
ITALY

YOUR REFERENCE: Mr Grassi
YOUR LETTER DATED: 22nd October 2008
ARRIVAL DATE CTL: 05th November 2008
DATE: 10th December 2008
CTL NO: 58447/5.1
SAMPLE: MAKKURO SUMI TATTOO COLOR
COLOUR: LIGHT GRAY TONE

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PART 1a

Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties
according to EU Resolution ResAP(2008)1

AMOUNT	UNIT	AMINE	EC-NO.	CAS-NO.
---		Biphenyl-4-ylamine	202-177-1	92-67-1
---		Benzidine	202-199-1	92-87-5
---		4-Chloro-o-toluidine	202-411-6	95-69-2
---		2-Naphthylamine	202-080-4	91-59-8
---		o-Aminoazotoluene	202-591-2	97-56-3
---		5-Nitro-o-toluidine	202-765-8	99-55-8
---		4-Chloroaniline	203-401-0	106-47-8
---		4-Methoxy-m-phenylenediamine	210-406-1	615-05-4
---		4,4'-Methylenedianiline	202-974-4	101-77-9
---		3,3'-Dichlorobenzidine	202-109-0	91-94-1
---		3,3'-Dimethoxybenzidine	204-355-4	119-90-4
---		3,3'-Dimethylbenzidine	204-358-0	119-93-7
---		4,4'-Methylenedi-o-toluidine	212-658-8	838-88-0
---		6-Methoxy-m-toluidine	204-419-1	120-71-8
---		4,4'-Methylenebis-(2-chloroaniline)	202-918-9	101-14-4
---		4-Methyl-m-phenylenediamine	202-453-1	95-80-7
---		o-Anisidine	201-963-1	90-04-0
---		4-Aminoazobenzene	200-453-6	60-09-3
---		6-Amino-2-ethoxynaphthaline	---	293733-21-8
---		4-Amino-3-fluorophenol	418-230-9	399-95-1

(---) = below detection limit; The investigation was carried out using GC/MS and HPLC according to § 64 LFGB, B 82.02-2, 3, 4 and 9 in the up-to-date legislation.
The detection limit is 1 ppm. The legal limit is 30 ppm.

PART 1b

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

AMOUNT	UNIT	AMINE	EC-NO.	CAS-NO.
---		4,4'-Oxydianiline	202-977-0	101-80-4
---		4,4'-Thiodianiline	205-370-9	139-65-1
---		o-Toluidine	202-429-0	95-53-4
---		2,4,5-Trimethylaniline	205-282-0	137-17-7
---		Para-phenylenediamine	2003-404-7	106-50-3
---		2,4 Xylidine	---	95-68-1
---		2,6 Xylidine	---	87-62-7

(---) = below detection limit; The investigation was carried out using GC/MS and HPLC according to § 64 LFGB, B 82.02-2, 3, 4 and 9 in the up-to-date legislation.
The detection limit is 1 ppm.

BIELEFELD, 10TH DECEMBER 2008

Dr. rer. nat. G. Prior

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The denoted results are only valid for the tested sample.

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PART 2**Investigation of Dyestuffs according to EU Resolution ResAP(2008)1**

AMOUNT	UNIT	COLOURANT	CI-NO.	CAS-NO.
---		Acid Green 16	44025	12768-78-4
---		Acid Red 26	16150	3761-53-3
---		Acid Violet 17	42650	4129-84-4
---		Acid Violet 49	42640	1694-09-3
---		Acid Yellow 36	13065	587-98-4
---		Basic Blue 7	42595	2390-60-5
---		Basic Green 1	42040	633-03-4
---		Basic Red 1	45160	989-38-8
---		Basic Red 9	42500	569-61-9
---		Basic Violet 1	42535	8004-87-3
---		Basic Violet 10	45170	81-88-9
---		Basic Violet 3	42555	548-62-9
---		Disperse Blue 1	64500	2475-45-8
---		Disperse Blue 106		12223-01-7
---		Disperse Blue 124		61951-51-7
---		Disperse Blue 3	61505	2475-46-9
---		Disperse Blue 35		12222-75-2
---		Disperse Orange 3	11005	730-40-5
---		Disperse Orange 37		12223-33-5
---		Disperse Red 1	11110	2872-52-8
---		Disperse Red 17	11210	3179-89-3
---		Disperse Yellow 3	11855	2832-40-8
---		Disperse Yellow 9	10375	6373-73-5
---		Pigment Orange 5	12075	3468-63-1
---		Pigment Red 53	15585	2092-56-0
---		Pigment Violet 3	42535:2	1325-82-2
---		Pigment Violet 39	42555:2	64070-98-0
---		Solvent Blue 35	61554	17354-14-2
---		Solvent Orange 7	12140	3118-97-6
---		Solvent Red 24	26105	85-83-6
---		Solvent Red 49	45170:1	509-34-2
---		Solvent Violet 9	42555:1	467-63-0
---		Solvent Yellow 1	11000	60-09-3
---		Solvent Yellow 2	11020	60-11-7
---		Solvent Yellow 3	11160	97-56-3

(---) = below detection limit. The investigation was carried out using TLC, HPLC, GC/MS according to DIN 54231 in the up-to-date legislation.
The detection limit is 5 mg/L.

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PART 3
Investigation of Heavy Metals according to EU Resolution ResAP(2008)1

AMOUNT	UNIT	ELEMENT OR COMPOUND	limit (ppm)
---		Arsenic (As)	2
---		Barium (Ba)	50
---		Cadmium (Cd)	0.2
---		Cobalt (Co)	25
---		Chromium (Cr), VI	0.2
---		Copper (Cu), soluble	25
---		Mercury (Hg)	0.2
---		Nickel (Ni)	As low as technically achievable
---		Lead (Pb)	2
---		Selenium (Se)	2
---		Antimony (Sb)	2
---		Tin (Sn)	50
---		Zinc (Zn)	50

(---) = below detection limit (0.01 ppm). The investigation was carried out using acidic perspiration solution according to DIN 38406-E29 in the up-to-date legislation.

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YOUR REFERENCE: Mr Grassi
 YOUR LETTER DATED: 12th December 2008
 ARRIVAL DATE CTL: 15th December 2008
 DATE: 07th January 2009
 CTL NO: 58447/5.1 + 58970
 SAMPLE: MAKKURO SUMI TATTOO COLOR
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PART 4

Investigation of Polycyclic aromatic hydrocarbons (PAH) and Benzene-a-pyrene (BaP)
according to ResAP(2008)1

AMOUNT	UNIT	ELEMENT OR COMPOUND
0.023	ppm	Naphthalene
---		Acenaphthylene
0.023	ppm	Acenaphthene
---		Fluorene
---		Phenanthrene
---		Anthracene
---		Fluoranthene
---		Pyrene
---		Benz(a)anthracene
---		Chrysene
---		Benzo(b)fluoranthene
---		Benzo(k)fluoranthene
---		Dibenzo(a,h)anthracene
---		Indo (1,2,3-cd)pyrene
---		Benzo(g,h,i)perylene
---		Benzene-a-pyrene (BaP)

(---) = below detection limit. Method acc. to EPA, ZEK 2008-01.

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

Result as total: 0.046 ppm

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BIELEFELD, 07TH JANUARY 2009

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COLOUR: LIGHT GRAY TONE
tested on a single representative sample

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PART 5

Investigation of Sterility
microbiological test: pseudomonads = King A, King B, Oxidase test
according to ResAP(2008)1

Detection limit: $< 1,0 \times 10^1$ KBE/g

Result: not detectable

BIELEFELD, 10TH DECEMBER 2008


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