

wir helfen, beraten und prüfen

CTL GmbH Bielefeld, Chemical-Technological Laboratory
Krackroperstrasse 12, 33639, Bielefeld, Germany

TEST RESULTS

CTL-No. Article: Colour:	61892/2 1 sample of a tattoo pigment Tattoo Outlining Ink	
		passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB §2.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1987/548/EEC of 27 June 1987 according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB §2.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic peraporation solution acc. to DIN 38406-IE29; Analysis acc. to EU ResAP(89)1 Limit: Arsenic (As) 2 ppm Barium (Ba) 50 ppm Cadmium (Cd) 0.2 ppm Cobalt (Co) 25 ppm Chromium (Cr), VI 0.2 ppm Copper (Cu), soluble 25 ppm Mercury (Hg) 0.2 ppm Nickel (Ni) As low as technically achievable Lead (Pb) 2 ppm Selenium (Se) 2 ppm Antimony (Sb) 2 ppm Tin (Sn) 50 ppm Zinc (Zn) 50 ppm	< 2 ppm < 50 ppm = 0.2 ppm < 25 ppm < 0.2 ppm = 25 ppm < 0.2 ppm < 0.5 ppm < 2 ppm < 2 ppm < 2 ppm < 50 ppm = 50 ppm	yes
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0,05 ppm as total, BaP 0,5 ppb Limit: PAH 0,5 ppm as total, BaP 5 ppb	Naphthalene 0.01 ppm Acenaphthylene 0.02 ppm Acenaphthene 0.03 ppm Fluorene 0.08 ppm Pyrene 0.02 ppm total: 0.16 ppm	yes
result	passed	

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CTL[®] GmbH Bielefeld, Chemical-Technological Laboratory
 Krackentreppe 12, 33659, Bielefeld, Germany

TEST RESULTS

CTL-No.:	61892/3																																											
Article:	1 sample of a tattoo pigment																																											
Colour:	Graywash Shading Ink																																											
		passed																																										
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2.3.4.9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes																																										
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2.3.4.9 Detection limit: 1 ppm	not detectable	yes																																										
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Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1		yes																																										
<table border="0"> <tr> <td></td> <td>Limit:</td> <td></td> </tr> <tr> <td>Arsenic (As)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Barium (Ba)</td> <td>50 ppm</td> <td>< 50 ppm</td> </tr> <tr> <td>Cadmium (Cd)</td> <td>0.2 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Cobalt (Co)</td> <td>25 ppm</td> <td>< 25 ppm</td> </tr> <tr> <td>Chromium (Cr), VI</td> <td>0.2 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Copper (Cu), soluble</td> <td>25 ppm</td> <td>< 25 ppm</td> </tr> <tr> <td>Mercury (Hg)</td> <td>0.2 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Nickel (Ni)</td> <td>As low as technically achievable</td> <td>< 0.5 ppm</td> </tr> <tr> <td>Lead (Pb)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Selenium (Se)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Antimony (Sb)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Tin (Sn)</td> <td>50 ppm</td> <td>< 50 ppm</td> </tr> <tr> <td>Zinc (Zn)</td> <td>50 ppm</td> <td>< 50 ppm</td> </tr> </table>		Limit:		Arsenic (As)	2 ppm	< 2 ppm	Barium (Ba)	50 ppm	< 50 ppm	Cadmium (Cd)	0.2 ppm	< 0.2 ppm	Cobalt (Co)	25 ppm	< 25 ppm	Chromium (Cr), VI	0.2 ppm	< 0.2 ppm	Copper (Cu), soluble	25 ppm	< 25 ppm	Mercury (Hg)	0.2 ppm	< 0.2 ppm	Nickel (Ni)	As low as technically achievable	< 0.5 ppm	Lead (Pb)	2 ppm	< 2 ppm	Selenium (Se)	2 ppm	< 2 ppm	Antimony (Sb)	2 ppm	< 2 ppm	Tin (Sn)	50 ppm	< 50 ppm	Zinc (Zn)	50 ppm	< 50 ppm		
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PAH and BaP, Part 4 Investigation of 18 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrène acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZBK 2008-01 Detection limit: PAH 0,05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	<table border="0"> <tr> <td>Phenanthrene</td> <td>0.01 ppm</td> </tr> <tr> <td>Pyrene</td> <td>0.01 ppm</td> </tr> <tr> <td>total:</td> <td>0.02 ppm</td> </tr> </table>	Phenanthrene	0.01 ppm	Pyrene	0.01 ppm	total:	0.02 ppm	yes																																				
Phenanthrene	0.01 ppm																																											
Pyrene	0.01 ppm																																											
total:	0.02 ppm																																											
result	passed																																											

CTL Bielefeld GmbH

M. Hahn
 I. A. Marion Hahn

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CTL GmbH Bielefeld, Chemical-Technological Laboratory
Königsplatz 12, 33699, Bielefeld, Germany

TEST RESULTS

Tests and results

CTL-No.:	63495/1	
Article:	1 sample of a tattoo colour „Kuro Sumi“	
Colour:	Cherry Shading Ink	
		passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes
Azo-dyestuffs, Part 1b Investigation of carotogens 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1		yes
	Limit:	< 2 ppm
Arsenic (As)	2 ppm	< 50 ppm
Barium (Ba)	50 ppm	< 0.2 ppm
Cadmium (Cd)	0.2 ppm	< 25 ppm
Cobalt (Co)	25 ppm	< 0.2 ppm
Chromium (Cr), VI	0.2 ppm	< 25 ppm
Copper (Cu), soluble	25 ppm	< 0.2 ppm
Mercury (Hg)	0.2 ppm	< 0.5 ppm
Nickel (Ni)	As low as technically achievable	< 2 ppm
Lead (Pb)	2 ppm	< 2 ppm
Selenium (Se)	2 ppm	< 2 ppm
Antimony (Sb)	2 ppm	< 50 ppm
Tin (Sn)	50 ppm	< 50 ppm
Zinc (Zn)	50 ppm	
PAH and BaP, Part 4 Investigation of 18 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZBK 2008-01 Detection limit: PAH 0,05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Phenanthrene 0.13 ppm	
	total: 0.13 ppm	yes
result	passed	

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CTL GmbH Biolefeld, Chemical-Technological Laboratory
Krackstrasse 12, 23659, Biolefeld, Germany

TEST RESULTS

CTL-No.1 Article: Colour:	63495/2 1 sample of a tattoo colour „Kuro Sumi“ Bronze Shading Ink																																											
		passed																																										
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes																																										
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes																																										
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CTL GmbH Bielefeld, Chemical-Technological Laboratory
Krackerstraße 12, 33640, Bielefeld, Germany

TEST RESULTS


Tests and results

CTL-No. Article: Colour:	61892/1 1 sample of a tattoo pigment New Agents																																											
		passed																																										
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes																																										
Azo-dyestuffs, Part 1b 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes																																										
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes																																										
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1		yes																																										
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PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Phenanthrene 0.01 ppm total: 0.01 ppm	yes																																										
result	passed																																											

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The denoted results are only valid for the tested sample.
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 CTL GmbH Bielefeld, Chemical-Technological Laboratory
 Krackstrasse 12, 33628, Bielefeld, Germany

TEST RESULTS

CTL-No. / Article / Colour	63495/3 1 sample of a tattoo colour „Millentum Colorworks Ino“ Hello Yellow																													
		passed																												
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes																												
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes																												
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes																												
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-129; Analysis acc. to EU ResAP(89)1		yes																												
	<table border="0"> <tr><td>Limit:</td><td>< 2 ppm</td></tr> <tr><td>Arsenic (As)</td><td>< 50 ppm</td></tr> <tr><td>Barium (Ba)</td><td>< 0.2 ppm</td></tr> <tr><td>Cadmium (Cd)</td><td>< 25 ppm</td></tr> <tr><td>Cobalt (Co)</td><td>< 0.2 ppm</td></tr> <tr><td>Chromium (Cr), VI</td><td>< 25 ppm</td></tr> <tr><td>Copper (Cu), soluble</td><td>< 0.2 ppm</td></tr> <tr><td>Mercury (Hg)</td><td>< 0,5 ppm</td></tr> <tr><td>Nickel (Ni)</td><td>< 2 ppm</td></tr> <tr><td>Lead (Pb)</td><td>< 2 ppm</td></tr> <tr><td>Selenium (Se)</td><td>< 2 ppm</td></tr> <tr><td>Antimony (Sb)</td><td>< 50 ppm</td></tr> <tr><td>Tin (Sn)</td><td>< 50 ppm</td></tr> <tr><td>Zinc (Zn)</td><td>< 50 ppm</td></tr> </table>	Limit:	< 2 ppm	Arsenic (As)	< 50 ppm	Barium (Ba)	< 0.2 ppm	Cadmium (Cd)	< 25 ppm	Cobalt (Co)	< 0.2 ppm	Chromium (Cr), VI	< 25 ppm	Copper (Cu), soluble	< 0.2 ppm	Mercury (Hg)	< 0,5 ppm	Nickel (Ni)	< 2 ppm	Lead (Pb)	< 2 ppm	Selenium (Se)	< 2 ppm	Antimony (Sb)	< 50 ppm	Tin (Sn)	< 50 ppm	Zinc (Zn)	< 50 ppm	
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Phenanthrene	0.16 ppm																													
total:	0.16 ppm																													
result	passed																													

 Yours sincerely
 CTL Bielefeld GmbH

I. A. Marion Hahn

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CTL GmbH Bielefeld, Chemical/Technological Laboratory
Krankenstrasse 12, 33659, Bielefeld, Germany

TEST RESULTS

Tests and results

CTL-No.:		63349/1	
Article:		1 sample of a tattoo colour	
Colour:		powerwhite	
		passed	
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm		not detectable	yes
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm		not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L		not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38408-E29; Analysis acc. to EU ResAP(89)1		Limit: Arsenic (As) 2 ppm < 2 ppm Barium (Ba) 50 ppm < 50 ppm Cadmium (Cd) 0,2 ppm < 0,2 ppm Cobalt (Co) 25 ppm < 25 ppm Chromium (Cr, VI) 0,2 ppm < 0,2 ppm Copper (Cu), soluble 25 ppm < 25 ppm Mercury (Hg) 0,2 ppm < 0,2 ppm Nickel (Ni) As low as technically achievable < 0,5 ppm Lead (Pb) 2 ppm < 2 ppm Selenium (Se) 2 ppm < 2 ppm Antimony (Sb) 2 ppm < 2 ppm Tin (Sn) 50 ppm < 50 ppm Zinc (Zn) 50 ppm < 50 ppm	yes
PAH and BaP, Part 4 Investigation of 18 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb		not detectable	yes
result		passed	

page 2/5

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CTL® GmbH Sielefeld, Chemical-Technological Laboratory
Krackenstraße 12, 33488, Sielefeld, Germany

TEST RESULTS

CTL-No.:	63349/2	
Article:	1 sample of a tattoo colour	
Colour:	magic magenta	
		passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-B29; Analysis acc. to EU ResAP(88)1		yes
	Limit:	
Arsenic (As)	2 ppm	< 2 ppm
Barium (Ba)	50 ppm	< 50 ppm
Cadmium (Cd)	0.2 ppm	< 0.2 ppm
Cobalt (Co)	25 ppm	< 25 ppm
Chromium (Cr), VI	0.2 ppm	< 0.2 ppm
Copper (Cu), soluble	25 ppm	< 25 ppm
Mercury (Hg)	0.2 ppm	< 0.2 ppm
Nickel (Ni)	As low as technically achievable	< 0.5 ppm
Lead (Pb)	2 ppm	< 2 ppm
Selenium (Se)	2 ppm	< 2 ppm
Antimony (Sb)	2 ppm	< 2 ppm
Tin (Sn)	50 ppm	< 50 ppm
Zinc (Zn)	50 ppm	< 50 ppm
PAH and BaP, Part 4 Investigation of 18 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrène acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Phenanthrene 0.30 ppm total: 0.30 ppm	yes
result		passed

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CTL® GmbH Bielefeld, Chemical-Technological Laboratory
Krackenstraße 12, 33659, Bielefeld, Germany

TEST RESULTS

CTL-No.:	63349/3	
Article:	1 sample of a tattoo colour	
Colour:	black cherry	
		passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1987/548/EEC of 27 June 1987 according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-1[29]; Analysis acc. to EU ResAP(89)1		yes
	Limit:	< 2 ppm
Arsenic (As)	2 ppm	< 50 ppm
Barium (Ba)	50 ppm	< 0.2 ppm
Cadmium (Cd)	0.2 ppm	< 25 ppm
Cobalt (Co)	25 ppm	< 0.2 ppm
Chromium (Cr), VI	0.2 ppm	< 25 ppm
Copper (Cu), soluble	25 ppm	< 0.2 ppm
Mercury (Hg)	0.2 ppm	< 0.5 ppm
Nickel (Ni)	As low as technically achievable	< 2 ppm
Lead (Pb)	2 ppm	< 2 ppm
Selenium (Se)	2 ppm	< 2 ppm
Antimony (Sb)	2 ppm	< 50 ppm
Tin (Sn)	50 ppm	< 50 ppm
Zinc (Zn)	50 ppm	< 50 ppm
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Acenaphthene 0.07 ppm Phenanthrene 0.30 ppm total: 0.37 ppm	yes
result		passed

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CTL® GmbH Bielefeld, Chemical-Technological Laboratory
Kradloperstraße 12, 33659, Bielefeld, Germany

TEST RESULTS

CTL-No.:	63349/4	
Article:	1 sample of a tattoo colour	
Colour:	onyx	
		passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes
Azo-dyestuffs, Part 1b 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1		yes
	Limit:	
Arsenic (As)	2 ppm	≤ 2 ppm
Barium (Ba)	50 ppm	≤ 50 ppm
Cadmium (Cd)	0.2 ppm	≤ 0.2 ppm
Cobalt (Co)	25 ppm	≤ 25 ppm
Chromium (Cr), VI	0.2 ppm	≤ 0.2 ppm
Copper (Cu), soluble	25 ppm	≤ 25 ppm
Mercury (Hg)	0.2 ppm	≤ 0.2 ppm
Nickel (Ni)	As low as technically achievable	≤ 0.5 ppm
Lead (Pb)	2 ppm	≤ 2 ppm
Selenium (Se)	2 ppm	≤ 2 ppm
Antimony (Sb)	2 ppm	≤ 2 ppm
Tin (Sn)	50 ppm	≤ 50 ppm
Zinc (Zn)	50 ppm	≤ 50 ppm
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Acenaphthene 0.08 ppm Phenanthrene 0.09 ppm total: 0.17 ppm	yes
result		passed

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CTL® GmbH Bielefeld, Chemical-Technological Laboratory
Kraackstraße 12, 33659, Bielefeld, Germany

TEST RESULTS

CTL-No.:	63349/6																																											
Article:	1 sample of a tattoo colour																																											
Colour:	gump																																											
		passed																																										
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes																																										
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes																																										
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes																																										
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1		yes																																										
	<table border="0"> <tr> <td></td> <td>Limit:</td> <td>< 2 ppm</td> </tr> <tr> <td>Arsenic (As)</td> <td>2 ppm</td> <td>< 50 ppm</td> </tr> <tr> <td>Barium (Ba)</td> <td>50 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Cadmium (Cd)</td> <td>0.2 ppm</td> <td>< 25 ppm</td> </tr> <tr> <td>Cobalt (Co)</td> <td>25 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Chromium (Cr), VI</td> <td>0.2 ppm</td> <td>< 25 ppm</td> </tr> <tr> <td>Copper (Cu), soluble</td> <td>25 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Mercury (Hg)</td> <td>0.2 ppm</td> <td>< 0.5 ppm</td> </tr> <tr> <td>Nickel (Ni)</td> <td>As low as technically achievable</td> <td>< 2 ppm</td> </tr> <tr> <td>Lead (Pb)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Selenium (Se)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Antimony (Sb)</td> <td>2 ppm</td> <td>< 50 ppm</td> </tr> <tr> <td>Tin (Sn)</td> <td>50 ppm</td> <td>< 50 ppm</td> </tr> <tr> <td>Zinc (Zn)</td> <td>50 ppm</td> <td>< 50 ppm</td> </tr> </table>		Limit:	< 2 ppm	Arsenic (As)	2 ppm	< 50 ppm	Barium (Ba)	50 ppm	< 0.2 ppm	Cadmium (Cd)	0.2 ppm	< 25 ppm	Cobalt (Co)	25 ppm	< 0.2 ppm	Chromium (Cr), VI	0.2 ppm	< 25 ppm	Copper (Cu), soluble	25 ppm	< 0.2 ppm	Mercury (Hg)	0.2 ppm	< 0.5 ppm	Nickel (Ni)	As low as technically achievable	< 2 ppm	Lead (Pb)	2 ppm	< 2 ppm	Selenium (Se)	2 ppm	< 2 ppm	Antimony (Sb)	2 ppm	< 50 ppm	Tin (Sn)	50 ppm	< 50 ppm	Zinc (Zn)	50 ppm	< 50 ppm	
	Limit:	< 2 ppm																																										
Arsenic (As)	2 ppm	< 50 ppm																																										
Barium (Ba)	50 ppm	< 0.2 ppm																																										
Cadmium (Cd)	0.2 ppm	< 25 ppm																																										
Cobalt (Co)	25 ppm	< 0.2 ppm																																										
Chromium (Cr), VI	0.2 ppm	< 25 ppm																																										
Copper (Cu), soluble	25 ppm	< 0.2 ppm																																										
Mercury (Hg)	0.2 ppm	< 0.5 ppm																																										
Nickel (Ni)	As low as technically achievable	< 2 ppm																																										
Lead (Pb)	2 ppm	< 2 ppm																																										
Selenium (Se)	2 ppm	< 2 ppm																																										
Antimony (Sb)	2 ppm	< 50 ppm																																										
Tin (Sn)	50 ppm	< 50 ppm																																										
Zinc (Zn)	50 ppm	< 50 ppm																																										
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	<table border="0"> <tr> <td>Naphthalene</td> <td>0.06 ppm</td> </tr> <tr> <td>Acenaphthene</td> <td>0.06 ppm</td> </tr> <tr> <td>Phenanthrene</td> <td>0.17 ppm</td> </tr> <tr> <td>total:</td> <td>0.29 ppm</td> </tr> </table>	Naphthalene	0.06 ppm	Acenaphthene	0.06 ppm	Phenanthrene	0.17 ppm	total:	0.29 ppm	yes																																		
Naphthalene	0.06 ppm																																											
Acenaphthene	0.06 ppm																																											
Phenanthrene	0.17 ppm																																											
total:	0.29 ppm																																											
	result	passed																																										

Yours sincerely
CTL Bielefeld GmbH

Ch. Hahn
C.A. Marion Hahn

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CTL® GmbH Sielefeld, Chemical-Technological Laboratory
Krackstrasse 12, 33659, Sielefeld, Germany

TEST RESULTS

CTL-No.:	62411/12	
Article:	1 sample of a tattoo colour	
Colour:	Kuro Sumi Colors mineranu green	
		passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E28; Analysis acc. to EU ResAP(89)1		yes
	Limit:	
Arsenic (As)	2 ppm	< 2 ppm
Barium (Ba)	50 ppm	< 50 ppm
Cadmium (Cd)	0.2 ppm	< 0.2 ppm
Cobalt (Co)	25 ppm	< 25 ppm
Chromium (Cr), VI	0.2 ppm	< 0.2 ppm
Copper (Cu), soluble	25 ppm	< 25 ppm
Mercury (Hg)	0.2 ppm	< 0.2 ppm
Nickel (Ni)	As low as technically achievable	< 0.5 ppm
Lead (Pb)	2 ppm	< 2 ppm
Selenium (Se)	2 ppm	< 2 ppm
Antimony (Sb)	2 ppm	< 2 ppm
Tin (Sn)	50 ppm	< 50 ppm
Zinc (Zn)	50 ppm	< 50 ppm
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Naphthalene 0.08 ppm Acenaphthene 0.19 ppm Fluorene 0.09 ppm Phenanthrene 0.11 ppm total: 0.47 ppm	yes
result		passed

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CTL* GmbH Bielefeld, Chemical-Technological Laboratory
Krackenstrasse 12, 33659, Bielefeld, Germany

TEST RESULTS

CTL-No.:	62411/13	
Article:	1 sample of a tattoo colour	
Colour:	Kuro Sumi Colors black	
		passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1		
	Limit:	
Arsenic (As)	2 ppm	< 2 ppm
Barium (Ba)	50 ppm	< 50 ppm
Cadmium (Cd)	0.2 ppm	< 0.2 ppm
Cobalt (Co)	25 ppm	< 25 ppm
Chromium (Cr), VI	0.2 ppm	0.8 ppm
Copper (Cu), soluble	25 ppm	270 ppm
Mercury (Hg)	0.2 ppm	< 0.2 ppm
Nickel (Ni)	As low as technically achievable	< 0.5 ppm
Lead (Pb)	2 ppm	< 2 ppm
Selenium (Se)	2 ppm	< 2 ppm
Antimony (Sb)	2 ppm	< 2 ppm
Tin (Sn)	50 ppm	< 50 ppm
Zinc (Zn)	50 ppm	< 50 ppm
		no
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Acenaphthene 0.30 ppm Fluorene 0.11 ppm total: 0.41 ppm	yes
result		passed

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CTL GmbH Bielefeld, Chemical-Technological Laboratory
Krackenstraße 12, 33689, Bielefeld, Germany

TEST RESULTS

CTL-No.:	62411/14	
Article:	1 sample of a tattoo colour	
Colour:	Kuro Sumi Colors murasaki purple	
		passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 84 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1987/548/EEC of 27 June 1987 according to EU Resolution ResAP(2008)1 Methods acc. to § 84 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38408-E29; Analysis acc. to EU ResAP(89)1		yes
	Limit:	
Arsenic (As)	2 ppm	< 2 ppm
Barium (Ba)	50 ppm	< 50 ppm
Cadmium (Cd)	0.2 ppm	< 0.2 ppm
Cobalt (Co)	25 ppm	< 25 ppm
Chromium (Cr), VI	0.2 ppm	< 0.2 ppm
Copper (Cu), soluble	25 ppm	< 25 ppm
Mercury (Hg)	0.2 ppm	< 0.2 ppm
Nickel (Ni)	As low as technically achievable	< 0.5 ppm
Lead (Pb)	2 ppm	< 2 ppm
Selenium (Se)	2 ppm	< 2 ppm
Antimony (Sb)	2 ppm	< 2 ppm
Tin (Sn)	50 ppm	< 50 ppm
Zinc (Zn)	50 ppm	< 50 ppm
PAH and BaP, Part 4 Investigation of 18 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0,05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Acenaphthene 0.15 ppm Fluorene 0.09 ppm Phenanthrene 0.09 ppm total: 0.33 ppm	yes
result	passed	

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The denoted results are only valid for the tested sample.
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 CTL® GmbH Bielefeld, Chemical-Technological Laboratory
 Krackergasse 12, 33689, Bielefeld, Germany

TEST RESULTS

CTL-No.:	62411/15																																											
Article:	1 sample of a tattoo colour																																											
Colour:	Kuro Sumi Colors white rice mixing																																											
		passed																																										
Azo-dyestuffs, Part 1a investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes																																										
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes																																										
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes																																										
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1		yes																																										
<table border="0"> <tr> <td></td> <td style="text-align: right;">Limit:</td> <td></td> </tr> <tr> <td>Arsenic (As)</td> <td style="text-align: right;">2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Barium (Ba)</td> <td style="text-align: right;">50 ppm</td> <td>< 50 ppm</td> </tr> <tr> <td>Cadmium (Cd)</td> <td style="text-align: right;">0.2 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Cobalt (Co)</td> <td style="text-align: right;">25 ppm</td> <td>< 25 ppm</td> </tr> <tr> <td>Chromium (Cr), VI</td> <td style="text-align: right;">0.2 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Copper (Cu), soluble</td> <td style="text-align: right;">25 ppm</td> <td>< 25 ppm</td> </tr> <tr> <td>Mercury (Hg)</td> <td style="text-align: right;">0.2 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Nickel (Ni)</td> <td style="text-align: right;">As low as technically achievable</td> <td>< 0.5 ppm</td> </tr> <tr> <td>Lead (Pb)</td> <td style="text-align: right;">2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Selenium (Se)</td> <td style="text-align: right;">2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Antimony (Sb)</td> <td style="text-align: right;">2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Tin (Sn)</td> <td style="text-align: right;">50 ppm</td> <td>< 50 ppm</td> </tr> <tr> <td>Zinc (Zn)</td> <td style="text-align: right;">50 ppm</td> <td>< 50 ppm</td> </tr> </table>		Limit:		Arsenic (As)	2 ppm	< 2 ppm	Barium (Ba)	50 ppm	< 50 ppm	Cadmium (Cd)	0.2 ppm	< 0.2 ppm	Cobalt (Co)	25 ppm	< 25 ppm	Chromium (Cr), VI	0.2 ppm	< 0.2 ppm	Copper (Cu), soluble	25 ppm	< 25 ppm	Mercury (Hg)	0.2 ppm	< 0.2 ppm	Nickel (Ni)	As low as technically achievable	< 0.5 ppm	Lead (Pb)	2 ppm	< 2 ppm	Selenium (Se)	2 ppm	< 2 ppm	Antimony (Sb)	2 ppm	< 2 ppm	Tin (Sn)	50 ppm	< 50 ppm	Zinc (Zn)	50 ppm	< 50 ppm		
	Limit:																																											
Arsenic (As)	2 ppm	< 2 ppm																																										
Barium (Ba)	50 ppm	< 50 ppm																																										
Cadmium (Cd)	0.2 ppm	< 0.2 ppm																																										
Cobalt (Co)	25 ppm	< 25 ppm																																										
Chromium (Cr), VI	0.2 ppm	< 0.2 ppm																																										
Copper (Cu), soluble	25 ppm	< 25 ppm																																										
Mercury (Hg)	0.2 ppm	< 0.2 ppm																																										
Nickel (Ni)	As low as technically achievable	< 0.5 ppm																																										
Lead (Pb)	2 ppm	< 2 ppm																																										
Selenium (Se)	2 ppm	< 2 ppm																																										
Antimony (Sb)	2 ppm	< 2 ppm																																										
Tin (Sn)	50 ppm	< 50 ppm																																										
Zinc (Zn)	50 ppm	< 50 ppm																																										
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzeno-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Phenanthrene 0.12 ppm total: 0.12 ppm	yes																																										
result	passed																																											

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CTL® GmbH Bielefeld, Chemical-Technological Laboratory
Kraackerspinne 12, 33659, Bielefeld, Germany

TEST RESULTS

CTL-No.:	62411/18																																											
Article:	1 sample of a tattoo colour																																											
Colour:	Kuro Sumi Colors suna gold																																											
		passed																																										
Azo-dyestuffs, Part 1a investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	70 mg/kg o-anisidine	no																																										
Azo-dyestuffs, Part 1b investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1987/548/EEC of 27 June 1987 according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes																																										
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes																																										
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1		yes																																										
	<table border="0"> <tr> <td></td> <td>Limit:</td> <td></td> </tr> <tr> <td>Arsenic (As)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Barium (Ba)</td> <td>50 ppm</td> <td>< 50 ppm</td> </tr> <tr> <td>Cadmium (Cd)</td> <td>0.2 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Cobalt (Co)</td> <td>25 ppm</td> <td>< 25 ppm</td> </tr> <tr> <td>Chromium (Cr), VI</td> <td>0.2 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Copper (Cu), soluble</td> <td>25 ppm</td> <td>< 25 ppm</td> </tr> <tr> <td>Mercury (Hg)</td> <td>0.2 ppm</td> <td>< 0.2 ppm</td> </tr> <tr> <td>Nickel (Ni)</td> <td>As low as technically achievable</td> <td>< 0.5 ppm</td> </tr> <tr> <td>Lead (Pb)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Selenium (Se)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Antimony (Sb)</td> <td>2 ppm</td> <td>< 2 ppm</td> </tr> <tr> <td>Tin (Sn)</td> <td>50 ppm</td> <td>< 50 ppm</td> </tr> <tr> <td>Zinc (Zn)</td> <td>50 ppm</td> <td>< 50 ppm</td> </tr> </table>		Limit:		Arsenic (As)	2 ppm	< 2 ppm	Barium (Ba)	50 ppm	< 50 ppm	Cadmium (Cd)	0.2 ppm	< 0.2 ppm	Cobalt (Co)	25 ppm	< 25 ppm	Chromium (Cr), VI	0.2 ppm	< 0.2 ppm	Copper (Cu), soluble	25 ppm	< 25 ppm	Mercury (Hg)	0.2 ppm	< 0.2 ppm	Nickel (Ni)	As low as technically achievable	< 0.5 ppm	Lead (Pb)	2 ppm	< 2 ppm	Selenium (Se)	2 ppm	< 2 ppm	Antimony (Sb)	2 ppm	< 2 ppm	Tin (Sn)	50 ppm	< 50 ppm	Zinc (Zn)	50 ppm	< 50 ppm	
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CTL* GmbH Bielefeld, Chemical-Technological Laboratory
 Kracknorstrasse 12, 33659, Bielefeld, Germany

TEST RESULTS

CTL-No.:	62411/18																																											
Article:	1 sample of a tattoo colour																																											
Colour:	Kuro Sumi Colors chairo brown																																											
		passed																																										
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitizing properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes																																										
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1987/548/EEC of 27 June 1987 according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes																																										
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total:	0.2 ppm																																											
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TEST RESULTS

CTL-No. / Article / Colour	62411/19 1 sample of a tattoo colour Kuro Sumi Colors chi red	passed	
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes	
Azo-dyestuffs, 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes	
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes	
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1	Limit: Arsenic (As) 3 ppm Barium (Ba) 50 ppm Cadmium (Cd) 0.2 ppm Cobalt (Co) 25 ppm Chromium (Cr), VI 0.2 ppm Copper (Cu), soluble 25 ppm Mercury (Hg) 0.2 ppm Nickel (Ni) As low as technically achievable Lead (Pb) 2 ppm Selenium (Se) 2 ppm Antimony (Sb) 2 ppm Tin (Sn) 50 ppm Zinc (Zn) 50 ppm	< 2 ppm < 50 ppm < 0.2 ppm < 25 ppm < 0.2 ppm < 25 ppm < 0.2 ppm < 0.5 ppm < 2 ppm < 2 ppm < 2 ppm < 50 ppm < 50 ppm	yes
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Acenaphthene 0.15 ppm Fluorene 0.07 ppm Phenanthrene 0.23 ppm total: 0.45 ppm	yes	
result	passed		

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 CTL[®] GmbH Bielefeld, Chemical-Technological Laboratory
 Krackstrasse 12, 33689, Bielefeld, Germany

TEST RESULTS

CTL-No.:	62411/20	
Article:	1 sample of a tattoo colour	
Colour:	Kuro Sumi Colors mt. fugi magenta	
		passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm, Limit: 30 ppm	not detectable	yes
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1987/548/EEC of 27 June 1987 according to EU Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm	not detectable	yes
Dyestuffs, Part 2 acc. to EU Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysys acc. to DIN 54231 Detection limit: 5 mg/L	not detectable	yes
Heavy metals, Part 3 acc. to EU Resolution ResAP(2008)1 Methods: extraction using acidic perspiration solution acc. to DIN 38406-E29; Analysis acc. to EU ResAP(89)1 Limit: Arsenic (As) 2 ppm Barium (Ba) 50 ppm Cadmium (Cd) 0.2 ppm Cobalt (Co) 25 ppm Chromium (Cr), VI 0.2 ppm Copper (Cu), soluble 25 ppm Mercury (Hg) 0.2 ppm Nickel (Ni) As low as technically achievable Lead (Pb) 2 ppm Selenium (Se) 2 ppm Antimony (Sb) 2 ppm Tin (Sn) 50 ppm Zinc (Zn) 50 ppm	< 2 ppm < 50 ppm < 0.2 ppm < 25 ppm < 0.2 ppm < 25 ppm < 0.2 ppm < 0.5 ppm < 2 ppm < 2 ppm < 2 ppm < 50 ppm < 50 ppm	yes
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzene-a-pyrene acc. to EU Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH 0.5 ppm as total, BaP 5 ppb	Phenanthrene 0.17 ppm total: 0.17 ppm	yes
result	passed	