



**we assist, advice and test Pigment PR 004**

Couleur : Rouge  
 INCI : CI 77491  
 Type : Pigment minéral  
 Famille : Oxyde de fer rouge

CTL <sup>®</sup> -No	365164/11
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[Material] sample of a raw material  
 [Material description/Colour] rouge terne

				passed		
<b>Azo-dyestuffs, Part 1a</b> Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to COE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm; limit: as low as technically avoidable				not detectable	yes	
Biphenyl-4-ylamine	-	4-Methoxy-m-phenylenediamine	-	4,4'-Methylenebis-(2-chloroaniline)		-
Benzidine	-	4,4'-Methylenedianiline	-	4-Methyl-m-phenylenediamine		-
4-Chloro-o-toluidine	-	3,3'-Dichlorobenzidine	-	o-Anisidine		-
2-Naphthylamine	-	3,3'-Dimethoxybenzidine	-	4-Aminoazobenzene		-
o-Aminoazotoluene	-	3,3'-Dimethylbenzidine	-	6-Amino-2-ethoxynaphthaline		-
5-Nitro-o-toluidine	-	4,4'-Methylenedi-o-toluidine	-	4-Amino-3-fluorophenol		-
4-Chloroaniline	-	6-Methoxy-m-toluidine	-			
<b>Azo-dyestuffs, Part 1b</b> 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 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm				not detectable	yes	
4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-	2,6-Xylidine		-
4,4'-Thiodianiline	-	Para-phenylenediamine	-			
o-Toluidine	-	2,4-Xylidine	-			
<b>Dyestuffs, Part 2</b> acc. to COE Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L				not detectable	yes	
Acid Green 16	-	Disperse Blue 1	-	Pigment Red 53		-
Acid Red 26	-	Disperse Blue 106	-	Pigment Violet 3		-
Acid Violet 17	-	Disperse Blue 124	-	Pigment Violet 39		-
Acid Violet 49	-	Disperse Blue 3	-	Solvent Blue 35		-
Acid Yellow 36	-	Disperse Blue 35	-	Solvent Orange 7		-
Basic Blue 7	-	Disperse Orange 3	-	Solvent Red 24		-
Basic Green 1	-	Disperse Orange 37	-	Solvent Red 49		-
Basic Red 1	-	Disperse Red 1	-	Solvent Violet 9		-
Basic Red 9	-	Disperse Red 17	-	Solvent Yellow 1		-
Basic Violet 1	-	Disperse Yellow 3	-	Solvent Yellow 2		-
Basic Violet 10	-	Disperse Yellow 9	-	Solvent Yellow 3		-
Basic Violet 3	-	Pigment Orange 5	-			

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CTL®-No	365164/11
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[Material] sample of a raw material

[Material description/Colour]rouge terne

[Lot-No] 1028866

			passed	
<b>Heavy metals, Part 3</b> acc. to COE Resolution ResAP(2008)1 Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments, Legislation. Berlin: epubli. CTL Method 2, p. 83.			yes	
	<b>Limit</b>	<b>Amount</b>		
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		
<b>PAH and BaP, Part 4*</b> Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzo-a-pyrene acc. to COE 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 <i>**on customer request, not part of ResAP (2008)</i>			yes	
Naphthalene	-	Fluoranthene		-
Acenaphthylene	-	Pyrene		-
Acenaphthene	-	Benz(a)anthracene		-
Fluorene	-	Chrysene		-
Phenanthrene	0.1 ppm	Benzo(b)fluoranthene		-
Anthracene	-	Benzo(k)fluoranthene		-
		<b>Total</b>		0.1 ppm
<b>Sterility (microbiological test), Part 5*</b> Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP(2008)1 Methods: Oxidase test Detection limit: 1.0 x 10 <sup>1</sup> CFU/g			---	
<b>Result: passed</b>				