

TEST REPORT N° 24/30012

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Mod.018 Rev .3 del 26.10.2023

Request No	Not Applicable
Input No	24/29539
Input date	24/07/24
Start and end test date	24/07/24 - 31/07/24
Issue date	31/07/24

Issued to

MAIMI PAINT S.L.

DIV. MAIMI PAINT S.L.

Calle Ciudad de Sevilla, 5

46988 PATERNA

SAMPLE DESCRIPTION (#):

A BLACK DYNAMITE GR BDY-170724-GR BLACK OUT 240ML DYNAMIC BOUT-170724-DY240

THIS DOCUMENT CONSISTS OF THE FOLLOWING ANALYTICAL RESULTS:

Code	Test	Standard
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	MIP_CE0038_rev3:2021
CE0073 *	Tattoos Inks and PMU: determination of certain aromatic amines	MIP_CE0073_rev0:2021 - ref. Reg. (EU) 2020/2081
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	AfPS GS 2019:01

General Remarks

The results included in this report refer exclusively to the materials submitted by the Client as received; as a general rule, TIL does not collect and / or sample the material covered by the testing, therefore, any representativeness of the material analyzed, in relation to one or different lots, is exclusive responsibility of the customer, except where expressly indicated.

(#) Data provided by the Customer. In addition, when information is provided by the Customer and may influence the validity of the results, the Laboratory declines any responsibility.

The expanded uncertainty, available on request, is calculated with a cover factor $k=2$ for a level of confidence of 95%.

For qualitative tests and for tests in which the result is expressed by numerical or attribute evaluation indices, the expanded uncertainty is not applicable.

The materials sent to TIL and tested will be kept available to the Customer for a period of 3 (three) months after completion of the Services; after this period all materials will be disposed of by TIL.

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The Decision/making rules

Unless otherwise requested by the customer, the Laboratory expresses the compliance not taking into account the uncertainty associated with the result. Uncertainty of method is available at customer request.

Where the decision rule is not defined by test method, the laboratory adopts a decision rule applying the "guard band" approach. This decision rule is described in the "conformity analysis" procedure adopting an unilateral K /coverage factor of 1,645 for a confidence level of 95%.

* Test not accredited by ACCREDIA

Technical Manager

Giuseppe Bartolini



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Summary Results Evaluation based on PRSL

Compliance to Regulation EU 2020/2081

Rev. 2 del 21/03/2022

Item	Sample	Pass	Fail	Not applied
A	BLACK DYNAMITE GR BDY-170724-GR BLACK OUT 240ML DYNAMIC BOUT-170724-DY240	67 Pass	0 Fail	0 NA

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Evaluation Results Sample					
BLACK DYNAMITE GR BDY-170724-GR BLACK OUT 240ML DYNAMIC BOUT-170724-DY240					

Rev. 0 del 06/04/2020

Item	Test Method	Parameter	Limits	Value	P/F
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Antimony	<=0,5 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Arsenic	<=0,5 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Barium (soluble)	<=500 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Cadmium	<=0,5 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Chromium VI	<=0,5 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Cobalt	<=0,5 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Copper (soluble)	<=250 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Lead	<=0,7 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Mercury	<=0,5 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Nickel	<=5 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Organometallic tin	<=0,5 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Selenium	<=2 mg/kg	Not Detectable	PASS
CE0038	Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)	Zinc (soluble)	<=2000 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	2,4,5-trimethylaniline (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	2,4-xylidine	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	2,6-xylidine	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	2-methyl-p-phenyldiamine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	2-naphtylamine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	3,3'-dichlorobenzidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	3,3'-dimethoxybenzidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	3,3'-dimethylbenzidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4,4'-diaminodiphenylmethane (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4,4'-methylene-bis-(2-chloro-aniline) (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4,4'-methylenedi-o-toluidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4,4'-oxydianiline (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4,4'-thiodianiline (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4-amino-3-fluorophenol (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4-aminoazobenzene (as soluble)	<=5 mg/kg	Not Detectable	PASS

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CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4-aminobiphenyl (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4-chloroaniline (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4-chloro-o-toluidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4-methoxy-m-phenylenediamine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	4-methyl-m-phenylenediamine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	5-nitro-o-toluidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	6-amino-2-ethoxynaphthalene	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	Aniline (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	benzidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	o-aminoazotoluene (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	o-anisidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	o-toluidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	p-cresidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	p-Phenylenediamine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	p-Toluidine (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0073	Tattoos Inks and PMU: determination of certain aromatic amines	sulfanilic acid (as soluble)	<=5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Acenafene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Acenaphylene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Anthracene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Benzo(a)Anthracene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Benzo(a)Pyrene	<=0,005 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Benzo(g,h,i)Perylene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Benzo[b]fluoranthene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Benzo[e]Pyrene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Benzo[j]fluoranthene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Benzo[k]Fluoranthene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Crysene	<=0,5 mg/kg	Not Detectable	PASS

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	Determination of Polycyclic Aromatic Hydrocarbon				
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Dibenzo(a,e)Pyrene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Dibenzo(a,h) Anthracene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Dibenzo(a,h)Pyrene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Dibenzo(a,i)Pyrene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Dibenzo(a,l)Pyrene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Fluoranthene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Fluorene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Indeno(1,2,3-cd)Pyrene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Naphtalene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Perylene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Phenanthrene	<=0,5 mg/kg	Not Detectable	PASS
CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon	Pyrene	<=0,5 mg/kg	Not Detectable	PASS

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Begin of Test Report

CE0038 **Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)**

Test methods **MIP_CE0038_rev3:2021**

Rev. 0 del 06/04/2020

Testing conditions Total Metals: Acid digestion - microwave oven / Soluble metals: water extraction
Testing equipment ICP-MS / HPLC-DAD
Testing date 29/07/2024

Sample identification **BLACK DYNAMITE GR BDY-170724-GR BLACK OUT 240ML DYNAMIC BOUT-170724-DY240**

Heavy metals		Results mg/kg	LOQ -Limit of quantification mg/kg	Maximum allowed concentration Regulation UE 2020/2081 mg/kg
As	Arsenic	< LOQ	0,4	0,5
Ba	Barium (soluble)	< LOQ	0,4	500
Cd	Cadmium	< LOQ	0,4	0,5
Co	Cobalt	< LOQ	0,4	0,5
Cr6	Chromium VI	< LOQ	0,3	0,5
Cu	Copper (soluble)	< LOQ	0,4	250
Hg	Mercury	< LOQ	0,4	0,5
Ni	Nickel	< LOQ	0,4	5
Pb	Lead	< LOQ	0,4	0,7
Se	Selenium	< LOQ	0,4	2
Sb	Antimony	< LOQ	0,4	0,5
Sn	Organometallic tin	< LOQ	0,4	0,5
Zn	Zinc (soluble)	< LOQ	0,4	2000

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CE0073	Tattoos Inks and PMU: determination of certain aromatic amines *
Test methods	MIP_CE0073_rev0:2021 - ref. Reg. (EU) 2020/2081

Rev. 0 del 06/04/2020

Testing conditions Amines classified as soluble: methanol extraction / others: buffer extraction with ref. to ISO 14362-1 / ISO 17234-1 and reductive cleavage

Testing equipment GC-MSMS / LC-MSMS

Testing date 31/07/2024

Sample identification	BLACK DYNAMITE GR BDY-170724-GR BLACK OUT 240ML DYNAMIC BOUT-170724-DY240
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SUBSTANCE	CAS N.	Quantification Limit (LOQ)	Result
<i>p</i> -Phenylenediamine (as soluble)	106-50-3	1 mg/kg	< LOQ
2,4,5-trimethylaniline (as soluble)	137-17-7 / 21436-97-5	1 mg/kg	< LOQ
2,4-xylidine	95-68-1	1 mg/kg	< LOQ
2,6-xylidine	87-62-7	1 mg/kg	< LOQ
2-naphtylamine (as soluble)	91-59-8 / 553-00-4	1 mg/kg	< LOQ
3,3'-dichlorobenzidine (as soluble)	91-94-1	1 mg/kg	< LOQ
4,4'-methylenedi-o-toluidine (as soluble)	838-88-0	1 mg/kg	< LOQ
3,3-dimethylbenzidine (as soluble)	119-93-7	1 mg/kg	< LOQ
3,3'-dimethoxybenzidine (as soluble)	119-90-4	1 mg/kg	< LOQ
4-methyl-m-phenylenediamine (as soluble)	95-80-7	1 mg/kg	< LOQ
4,4'-methylene-bis-(2-chloro-aniline) (as soluble)	101-14-4	1 mg/kg	< LOQ
4,4'-oxydianiline (as soluble)	101-80-4	1 mg/kg	< LOQ
4,4'-thiodianiline (as soluble)	139-65-1	1 mg/kg	< LOQ
4-aminobiphenyl (as soluble)	92-67-1	1 mg/kg	< LOQ

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4-aminoazobenzene (as soluble)	60-09-3	1 mg/kg	< LOQ
4-chloroaniline (as soluble)	106-47-8	1 mg/kg	< LOQ
4-chloro-o-toluidine (as soluble)	95-69-2 / 3165-93-3	1 mg/kg	< LOQ
4,4'-diaminodiphenylmethane (as soluble)	101-77-9	1 mg/kg	< LOQ
4-methoxy-m-phenylenediamine (as soluble)	615-05-4 / 39156-41-7	1 mg/kg	< LOQ
5-nitro-o-toluidine (as soluble)	99-55-8	1 mg/kg	< LOQ
Aniline (as soluble)	62-53-3	1 mg/kg	< LOQ
benzidine (as soluble)	92-87-5	1 mg/kg	< LOQ
o-aminoazotoluene (as soluble)	97-56-3	1 mg/kg	< LOQ
o-anisidine (as soluble)	90-04-0	1 mg/kg	< LOQ
o-toluidine (as soluble)	95-53-4	1 mg/kg	< LOQ
p-cresidine (as soluble)	120-71-8	1 mg/kg	< LOQ
4-amino-3-fluorophenol (as soluble)	399-95-1	1 mg/kg	< LOQ
6-amino-2-ethoxynaphthalene	293733-21-8	1 mg/kg	< LOQ
2-methyl-p-phenylenediamine (as soluble)	95-70-5	1 mg/kg	< LOQ
sulfanilic acid (as soluble)	121-57-3	1 mg/kg	< LOQ
p-Toluidine (as soluble)	106-49-0	1 mg/kg	< LOQ

* Test not accredited by ACCREDIA

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CE0082	Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon
Test methods	AfPS GS 2019:01

Rev. 0 del 06/04/2020

Testing conditions organic solvent extraction - ultrasonic bath
Testing equipment GC-MSMS
Testing date 31/07/2024

Sample identification	BLACK DYNAMITE GR BDY-170724-GR BLACK OUT 240ML DYNAMIC BOUT-170724-DY240
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SUBSTANCE	CAS N.	Quantification Limit (LOQ)	Result
Naphtalene	91-20-3	0,05 mg/kg	< LOQ
Acenaphthylene*	208-96-8	0,05 mg/kg	< LOQ
Acenaftene*	83-32-9	0,05 mg/kg	< LOQ
Fluorene*	86-73-7	0,05 mg/kg	< LOQ
Phenanthrene	85-01-8	0,05 mg/kg	< LOQ
Anthracene	120-12-7	0,05 mg/kg	< LOQ
Fluoranthene	206-44-0	0,05 mg/kg	< LOQ
Pyrene	129-00-0	0,05 mg/kg	< LOQ
Crysene	218-01-9	0,05 mg/kg	< LOQ
Benzo(a)Anthracene	56-55-3	0,05 mg/kg	< LOQ
Benzo[b]fluoranthene	205-99-2	0,05 mg/kg	< LOQ
Benzo[k]Fluoranthene	207-08-9	0,05 mg/kg	< LOQ
Benzo[e]Pyrene	192-97-2	0,05 mg/kg	< LOQ
Benzo(a)Pyrene	50-32-8	0,005 mg/kg	< LOQ
Perylene*	198-55-0	0,05 mg/kg	< LOQ
Indeno(1,2,3-cd)Pyrene	193-39-5	0,05 mg/kg	< LOQ
Dibenzo(a,h) Anthracene	53-70-3	0,05 mg/kg	< LOQ
Benzo(g,h,i)Perylene	191-24-2	0,05 mg/kg	< LOQ
Dibenzo(a,l)Pyrene	191-30-0	0,05 mg/kg	< LOQ
Dibenzo(a,e)Pyrene*	192-65-4	0,05 mg/kg	< LOQ
Dibenzo(a,i)Pyrene	189-55-9	0,05 mg/kg	< LOQ
Dibenzo(a,h)Pyrene*	189-64-0	0,05 mg/kg	< LOQ
Benzo[j]fluoranthene	205-82-3	0,05 mg/kg	< LOQ
Total amount *			< LOQ

* Test not accredited by ACCREDIA

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BLACK DYNAMITE GR BDY-170724-GR BLACK OUT 240ML DYNAMIC BOUT-170724-DY240



End of Test Report