



## Test Report

Report No. A2250055903101  
Report Issued Date Feb. 11, 2025

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The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Company Name Show on Report INKCUPS NOW CORPS  
Address 310 ANDOVER STREET DANVERS MA 01923, USA

Sample Description SAPPHIRE SB ECO SERIES INK  
Contact Person Joseph Shairs  
Tel No. 978-646-8980  
Mail Box joes@inkcups.com  
Summary Report PASS  
Failure Test Items --  
Amount of Sample --  
Buyer's Name/Division Adidas Apparel  
Age Grade Infant  
Material Name/Material Code SAPPHIRE SB ECO SERIES  
Color Name/Code BLACK/165; LIGHT ONIX/150A;DARK ONIX/A79H  
Same Material --  
Supplier Inkcups Corporation  
Country of Origin Italy  
Country of Destination --  
Material Component --  
Content of recycled material(%) 0  
Sample Classification --



Approved by

*Hill Zheng*

Date

Feb. 11, 2025

Hill Zheng  
Technical Manager

No. S597418258

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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Material key code under 509+cement

adidas-Group A-01 test standard

RSL based on The adidas-Group A-01 RSL (2024)

Report Type FT

Mark the Former full test report --

No.

P.O. No. --

Item No. --

Style No. --

Additional information --

Sample Received Date Feb. 6, 2025

Testing Period Feb. 6, 2025 to Feb. 11, 2025

**Note:**

Full Test (FT)/ First Order (FO)/ Separate Colors (SC\*)/ New version update test items (NT\*)/ Improvement Test (IT\*)/ Random Test (RT)/ Supplier Internal (SI)/ Special Test (ST\*)

**Test Conducted:**

As requested by the applicant, for details refer to next page(s)

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<u>Summary of Test Result(s)</u>			
Test Item(s)	Pre-Treatment	Test Request	Test Result/ Conclusion
Extractable heavy metals	DIN EN 16711-2 (2016)	DIN EN ISO 17294-2 (2024)	PASS
Cadmium (Cd)	DIN EN 16711-1:2016	DIN EN ISO 11885 (2009)	PASS
Lead (Pb)	DIN EN 16711-1:2016	DIN EN ISO 11885 (2009)	PASS
Chlorinated phenols	DIN EN 17134-2 (2023)		PASS
Ortho-phenylphenol	DIN EN ISO 13365-1:2020		PASS
Formaldehyde	DIN EN ISO 14184-1, (2011)		PASS
Disperse dyestuffs(allerginous)	DIN 54231:2022		PASS
Disperse dyestuffs(carcinogenic)	DIN 54231:2022		PASS
Short Chain Chlorinated Paraffins (SCCPs)	5mLTHF ultrasonic30 min at 70 °C; shaking for 30 min; then +10mL ACN & ultrasonic 30 min at 70 °C; filtrate with PTFE 0.45 μm, GCMS(NCI) analysis		PASS
Middle Chain Chlorinated Paraffins (MCCPs)	5mLTHF ultrasonic30 min at 70 °C; shaking for 30 min; then +10mL ACN & ultrasonic 30 min at 70 °C; filtrate with PTFE 0.45 μm, GCMS(NCI) analysis		PASS
Alkylphenols and Alkylphenol Ethoxylates	NP,OP: Extraction with THF NPEO,OPEO: Extraction with THF	NP,OP: GCMS or LCMS NPEO,OPEO: LCMS	PASS
Organotin compounds	ISO/TS 16179 (2012)		PASS
Phthalates	CPSC-CH-C1001-09.4(2018)		PASS
Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2019:01 PAK		PASS
Volatile Organic Compounds (VOC)	Solvent Extraction, Analysis by GCMS		PASS
N,N-dimethylformamide	Solvent Extraction -DIN EN 17131(2019)		PASS
Solvents/Residuals	DIN CEN ISO/TS 16189:2013		PASS

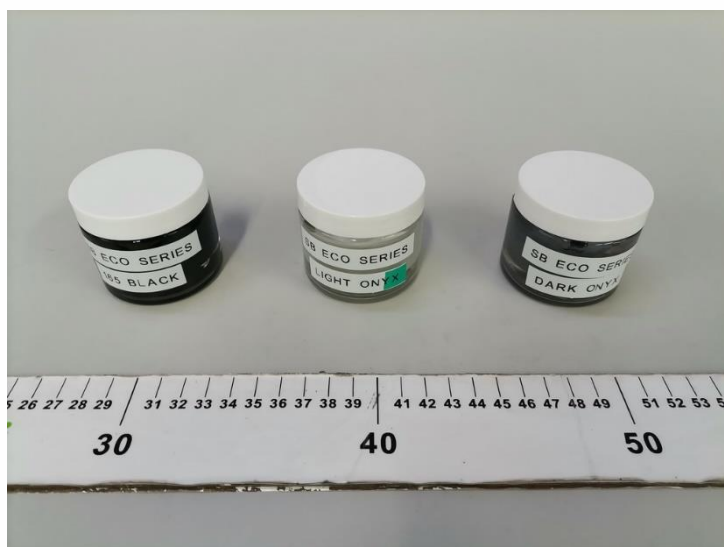
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<u>Summary of Test Result(s)</u>			
Test Item(s)	Pre-Treatment	Test Request	Test Result/ Conclusion
Azo Dyes	DIN EN ISO 14362-1:2017& DIN EN ISO 14362-3:2017		PASS
Quinoline	DIN 54231(2022)	GC/MS or LC/MS	PASS

## Photo(s) of the sample(s)



\*\*\*\*\*For Further Details, Please Refer to the Following Page(s) \*\*\*\*\*

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Tests Conducted (As Requested by the Client)

## 1 Extractable heavy metals (DIN EN ISO 17294-2 (2024))

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Lead(Pb)	7439-92-1	N.D.	N.D.	0.2	≤0.2
2	Cadmium(Cd)	7440-43-9	N.D.	N.D.	0.05	≤0.1
3	Mercury(Hg)	7439-97-6	N.D.	N.D.	0.02	≤0.02
4	Chromium(Cr)	7440-47-3	N.D.	N.D.	0.02	≤1

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Lead(Pb)	7439-92-1	N.D.	0.2	≤0.2
2	Cadmium(Cd)	7440-43-9	N.D.	0.05	≤0.1
3	Mercury(Hg)	7439-97-6	N.D.	0.02	≤0.02
4	Chromium(Cr)	7440-47-3	N.D.	0.02	≤1

## 2 Cadmium (Cd) (DIN EN ISO 11885 (2009))

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Cadmium(Cd)	7440-43-9	N.D.	N.D.	5	≤40

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Cadmium(Cd)	7440-43-9	N.D.	5	≤40

## 3 Lead (Pb) (DIN EN ISO 11885 (2009))

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Lead(Pb)	7439-92-1	N.D.	N.D.	5	≤40

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Lead(Pb)	7439-92-1	N.D.	5	≤40

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## 4 Chlorinated phenols (DIN EN 17134-2 (2023))

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	2,3,4-Trichlorophenol	15950-66-0	N.D.	N.D.	0.05	--
2	2,3,5-Trichlorophenol	933-78-8	N.D.	N.D.	0.05	--
3	2,3,6-Trichlorophenol	933-75-5	N.D.	N.D.	0.05	--
4	2,4,5-Trichlorophenol	95-95-4	N.D.	N.D.	0.05	--
5	2,4,6-Trichlorophenol	88-06-2	N.D.	N.D.	0.05	--
6	3,4,5-Trichlorophenol	609-19-8	N.D.	N.D.	0.05	--
7	2,3,4,5-Tetrachlorophenol	4901-51-3	N.D.	N.D.	0.05	--
8	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	N.D.	0.05	--
9	2,3,5,6-Tetrachlorophenol	935-95-5	N.D.	N.D.	0.05	--
10	Pentachlorophenol	87-86-5	N.D.	N.D.	0.05	--
11	sum of(PCP+TeCP+TriCP)	--	N.D.	N.D.	--	≤0.05

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			003			
1	2,3,4-Trichlorophenol	15950-66-0	N.D.		0.05	--
2	2,3,5-Trichlorophenol	933-78-8	N.D.		0.05	--
3	2,3,6-Trichlorophenol	933-75-5	N.D.		0.05	--
4	2,4,5-Trichlorophenol	95-95-4	N.D.		0.05	--
5	2,4,6-Trichlorophenol	88-06-2	N.D.		0.05	--
6	3,4,5-Trichlorophenol	609-19-8	N.D.		0.05	--
7	2,3,4,5-Tetrachlorophenol	4901-51-3	N.D.		0.05	--
8	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		0.05	--
9	2,3,5,6-Tetrachlorophenol	935-95-5	N.D.		0.05	--
10	Pentachlorophenol	87-86-5	N.D.		0.05	--
11	sum of(PCP+TeCP+TriCP)	--	N.D.		--	≤0.05

## 5 Ortho-phenylphenol (DIN EN ISO 13365-1:2020)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Ortho-phenylphenol(OPP)	90-43-7	N.D.	N.D.	0.5	≤1000

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Ortho-phenylphenol(OPP)	90-43-7	N.D.	0.5	≤1000

## 6 Formaldehyde (DIN EN ISO 14184-1, (2011))

Tested Item(s)	Test Result (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
	001*	002*	003*		
Formaldehyde	N.D.	N.D.	N.D.	16	≤16

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## 7 Disperse dyestuffs(allergenus) (DIN 54231:2022)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Disperse Blue 7	3179-90-6	N.D.	N.D.	15	≤30
2	Disperse Blue 26	3860-63-7	N.D.	N.D.	15	≤30
3	Disperse Blue 35	12222-75-2	N.D.	N.D.	15	≤30
4	Disperse Blue 102	12222-97-8	N.D.	N.D.	15	≤30
5	Disperse Blue 106	12223-01-7	N.D.	N.D.	15	≤30
6	Disperse Blue 124	61951-51-7	N.D.	N.D.	15	≤30
7	Disperse Brown 1	23355-64-8	N.D.	N.D.	15	≤30
8	Disperse Yellow 1	119-15-3	N.D.	N.D.	15	≤30
9	Disperse Yellow 7	6300-37-4	N.D.	N.D.	15	≤30
10	Disperse Yellow 9	6373-73-5	N.D.	N.D.	15	≤30
11	Disperse Yellow 23	6250-23-3	N.D.	N.D.	15	≤30
12	Disperse Yellow 39	12236-29-2	N.D.	N.D.	15	≤30
13	Disperse Yellow 49	54824-37-2	N.D.	N.D.	15	≤30
14	Disperse Yellow 49	6858-49-7	N.D.	N.D.	15	≤30
15	Disperse Yellow 56	54077-16-6	N.D.	N.D.	15	≤30
16	Disperse Orange 1	2581-69-3	N.D.	N.D.	15	≤30
17	Disperse Orange 3	730-40-5	N.D.	N.D.	15	≤30
18	Disperse Orange 11	82-28-0	N.D.	N.D.	15	≤30
19	Disperse Orange 37/76/59	13301-61-6; 12223-33-5; 51811-42-8	N.D.	N.D.	15	≤30
20	Disperse Orange 149	85136-74-9	N.D.	N.D.	15	≤30
21	Disperse Red 1	2872-52-8	N.D.	N.D.	15	≤30
22	Disperse Red 11	2872-48-2	N.D.	N.D.	15	≤30
23	Disperse Red 17	3179-89-3	N.D.	N.D.	15	≤30
24	Disperse Red 151	61968-47-6	N.D.	N.D.	15	≤30
25	acid red 114	6459-94-5	N.D.	N.D.	15	≤30
26	direct blue 15	2429-74-5	N.D.	N.D.	15	≤30
27	Solvent Red 23	85-86-9	N.D.	N.D.	15	≤30



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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Disperse Blue 7	3179-90-6	N.D.	15	≤30
2	Disperse Blue 26	3860-63-7	N.D.	15	≤30
3	Disperse Blue 35	12222-75-2	N.D.	15	≤30
4	Disperse Blue 102	12222-97-8	N.D.	15	≤30
5	Disperse Blue 106	12223-01-7	N.D.	15	≤30
6	Disperse Blue 124	61951-51-7	N.D.	15	≤30
7	Disperse Brown 1	23355-64-8	N.D.	15	≤30
8	Disperse Yellow 1	119-15-3	N.D.	15	≤30
9	Disperse Yellow 7	6300-37-4	N.D.	15	≤30
10	Disperse Yellow 9	6373-73-5	N.D.	15	≤30
11	Disperse Yellow 23	6250-23-3	N.D.	15	≤30
12	Disperse Yellow 39	12236-29-2	N.D.	15	≤30
13	Disperse Yellow 49	54824-37-2	N.D.	15	≤30
14	Disperse Yellow 49	6858-49-7	N.D.	15	≤30
15	Disperse Yellow 56	54077-16-6	N.D.	15	≤30
16	Disperse Orange 1	2581-69-3	N.D.	15	≤30
17	Disperse Orange 3	730-40-5	N.D.	15	≤30
18	Disperse Orange 11	82-28-0	N.D.	15	≤30
19	Disperse Orange 37/76/59	13301-61-6; 12223-33-5; 51811-42-8	N.D.	15	≤30
20	Disperse Orange 149	85136-74-9	N.D.	15	≤30
21	Disperse Red 1	2872-52-8	N.D.	15	≤30
22	Disperse Red 11	2872-48-2	N.D.	15	≤30
23	Disperse Red 17	3179-89-3	N.D.	15	≤30
24	Disperse Red 151	61968-47-6	N.D.	15	≤30
25	acid red 114	6459-94-5	N.D.	15	≤30
26	direct blue 15	2429-74-5	N.D.	15	≤30
27	Solvent Red 23	85-86-9	N.D.	15	≤30

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## 8 Disperse dyestuffs(carcinogenic) (DIN 54231:2022)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Disperse Blue 1	2475-45-8	N.D.	N.D.	15	≤30
2	Disperse Blue 3	2475-46-9	N.D.	N.D.	15	≤30
3	Disperse Yellow 3	2832-40-8	N.D.	N.D.	15	≤30
4	Acid Red 26	3761-53-3	N.D.	N.D.	15	≤30
5	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl]m ethylene]cyclohexa-2,5-dien- 1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)	2580-56-5	N.D.	N.D.	15	≤30
6	Malachite Green	10309-95-2; 569-64-2;24 37-29-8	N.D.	N.D.	15	≤30
7	Basic Red 9	569-61-9	N.D.	N.D.	15	≤30
8	Basic Violet 1	8004-87-3	N.D.	N.D.	15	≤30
9	[4-[4,4'-bis(dimethylamino)b enzhydrylidene]cyclohexa-2, 5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)	548-62-9/14 426-25-6	N.D.	N.D.	15	≤30
10	Basic Violet 14	632-99-5	N.D.	N.D.	15	≤30
11	Disodium 4-amino-3-[[4'-[(2,4-diamino phenyl)azo]4-yl]azo]-5-hydro xy-6- (phenylazo)naphthalene-2,7- disulphonate(C.I. Direct Black 38)	1937-37-7	N.D.	N.D.	15	≤30
12	Direct Blue 6	2602-46-2	N.D.	N.D.	15	≤30
13	Direct Brown 95	16071-86-6	N.D.	N.D.	15	≤30

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
14	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-amino naphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	N.D.	N.D.	15	≤30
15	phenyl]-4(phenylamino)naphthalene-1-methanol(C.I. Solvent Blue 4)	6786-83-0	N.D.	N.D.	15	≤30
16	Solvent Yellow 2	60-11-7	N.D.	N.D.	15	≤30
17	Solvent Yellow 14	842-07-9	N.D.	N.D.	15	≤30
18	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol(Solvent Violet 8)	561-41-1	N.D.	N.D.	15	≤30
19	Navy blue	118685-33-9	N.D.	N.D.	15	≤30
20	Navy blue(C46H30CrN10O20S2•3 Na)	--	N.D.	N.D.	15	≤30

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			003			
1	Disperse Blue 1	2475-45-8	N.D.		15	≤30
2	Disperse Blue 3	2475-46-9	N.D.		15	≤30
3	Disperse Yellow 3	2832-40-8	N.D.		15	≤30
4	Acid Red 26	3761-53-3	N.D.		15	≤30
5	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)	2580-56-5	N.D.		15	≤30
6	Malachite Green	10309-95-2; 569-64-2;24 37-29-8	N.D.		15	≤30
7	Basic Red 9	569-61-9	N.D.		15	≤30
8	Basic Violet 1	8004-87-3	N.D.		15	≤30

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
9	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3)	548-62-9/14 426-25-6	N.D.	15	≤30
10	Basic Violet 14	632-99-5	N.D.	15	≤30
11	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate(C.I. Direct Black 38)	1937-37-7	N.D.	15	≤30
12	Direct Blue 6	2602-46-2	N.D.	15	≤30
13	Direct Brown 95	16071-86-6	N.D.	15	≤30
14	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-amino naphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	N.D.	15	≤30
15	phenyl]-4(phenylamino)naphthalene-1-methanol(C.I. Solvent Blue 4)	6786-83-0	N.D.	15	≤30
16	Solvent Yellow 2	60-11-7	N.D.	15	≤30
17	Solvent Yellow 14	842-07-9	N.D.	15	≤30
18	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol(Solvent Violet 8)	561-41-1	N.D.	15	≤30
19	Navy blue	118685-33-9	N.D.	15	≤30
20	Navy blue(C46H30CrN10O20S2•3 Na)	--	N.D.	15	≤30

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**9 Short Chain Chlorinated Paraffins (SCCPs) (5mLTHF ultrasonic30 min at 70 °C; shaking for 30 min; then +10mL ACN & ultrasonic 30 min at 70 °C; filtrate with PTFE 0.45 μm, GCMS(NCI) analysis )**

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	N.D.	N.D.	100	≤1000

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			003			
1	Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	N.D.		100	≤1000

**10 Middle Chain Chlorinated Paraffins (MCCPs) (5mLTHF ultrasonic30 min at 70 °C; shaking for 30 min; then +10mL ACN & ultrasonic 30 min at 70 °C; filtrate with PTFE 0.45 μm, GCMS(NCI) analysis )**

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Middle Chain Chlorinated Paraffins(MCCPs)	85535-85-9	N.D.	N.D.	100	≤1000

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			003			
1	Middle Chain Chlorinated Paraffins(MCCPs)	85535-85-9	N.D.		100	≤1000

**11 Alkylphenols and Alkylphenol Ethoxylates (NP,OP: GCMS or LCMS NPEO,OPEO: LCMS)**

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Nonylphenol(NP)	25154-52-3	N.D.	N.D.	10	≤10
2	Octylphenol(OP)	140-66-9	N.D.	N.D.	10	≤10
3	Nonylphenol Ethoxylate(NPEOs)	68412-54-4/ 9016-45-9	N.D.	N.D.	50	--
4	Octylphenol Ethoxylate(OPEOs)	9002-93-1	N.D.	N.D.	50	--
5	sum of(NP+OP+NPEOs+OPEOs)	--	N.D.	N.D.	--	≤100

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Nonylphenol(NP)	25154-52-3	N.D.	10	≤10
2	Octylphenol(OP)	140-66-9	N.D.	10	≤10
3	Nonylphenol Ethoxylate(NPEOs)	68412-54-4/ 9016-45-9	N.D.	50	--
4	Octylphenol Ethoxylate(OPEOs)	9002-93-1	N.D.	50	--
5	sum of(NP+OP+NPEOs+OPEOs)	--	N.D.	--	≤100

## 12 Organotin compounds (ISO/TS 16179 (2012))

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Monobutyltin(MBT)	1118-46-3	N.D.	N.D.	0.05	≤1
2	Monooctyltin(MOT)	3091-25-6	N.D.	N.D.	0.05	≤1
3	Dibutyltin(DBT)	683-18-1	N.D.	N.D.	0.05	≤1
4	Diocetyl tin(DOT)	3542-36-7	N.D.	N.D.	0.05	≤1
5	Triocetyl tin(TOT)	2587-76-0	N.D.	N.D.	0.05	≤1
6	Tributyltin(TBT)	1461-22-9	N.D.	N.D.	0.05	≤0.5
7	Triphenyltin(TPhT)	639-58-7	N.D.	N.D.	0.05	≤0.5

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Monobutyltin(MBT)	1118-46-3	N.D.	0.05	≤1
2	Monooctyltin(MOT)	3091-25-6	N.D.	0.05	≤1
3	Dibutyltin(DBT)	683-18-1	N.D.	0.05	≤1
4	Diocetyl tin(DOT)	3542-36-7	N.D.	0.05	≤1
5	Triocetyl tin(TOT)	2587-76-0	N.D.	0.05	≤1
6	Tributyltin(TBT)	1461-22-9	N.D.	0.05	≤0.5
7	Triphenyltin(TPhT)	639-58-7	N.D.	0.05	≤0.5

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## 13 Phthalates (CPSC-CH-C1001-09.4(2018))

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Dibutyl phthalate(DBP)	84-74-2	N.D.	N.D.	30	--
2	Butyl benzyl phthalate(BBP)	85-68-7	N.D.	N.D.	30	--
3	Di-(2-ethylhexyl) phthalate(DEHP)	117-81-7	N.D.	N.D.	30	--
4	Di-n-octyl phthalate(DNOP)	117-84-0	N.D.	N.D.	30	--
5	Di-isononyl phthalate(DINP)	28553-12-0, 68515-48-0	N.D.	N.D.	50	--
6	Di-iso-decyl phthalate(DIDP)	26761-40-0, 68515-49-1	N.D.	N.D.	50	--
7	Diethyl phthalate(DEP)	84-66-2	N.D.	N.D.	30	--
8	Diisobutyl phthalate(DIBP)	84-69-5	N.D.	N.D.	30	--
9	Dipentyl phthalate(DPP/DPENP)	131-18-0	N.D.	N.D.	30	--
10	Dicyclohexyl phthalate(DCHP)	84-61-7	N.D.	N.D.	30	--
11	Di-n-hexyl phthalate(DNHP/DHEXP)	84-75-3	N.D.	N.D.	30	--
12	Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	N.D.	N.D.	30	--
13	Diisopentylphthalate(DIPP)	605-50-5	N.D.	N.D.	30	--
14	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP)	68515-42-4	N.D.	N.D.	50	--
15	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP)	71888-89-6	N.D.	N.D.	50	--
16	Di-iso-hexyl-phthalates(DIH xP)	71850-09-4	N.D.	N.D.	30	--
17	sum of Phthalates	--	N.D.	N.D.	--	≤500

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Dibutyl phthalate(DBP)	84-74-2	N.D.	30	--
2	Butyl benzyl phthalate(BBP)	85-68-7	N.D.	30	--
3	Di-(2-ethylhexyl) phthalate(DEHP)	117-81-7	N.D.	30	--
4	Di-n-octyl phthalate(DNOP)	117-84-0	N.D.	30	--
5	Di-isononyl phthalate(DINP)	28553-12-0, 68515-48-0	N.D.	50	--
6	Di-iso-decyl phthalate(DIDP)	26761-40-0, 68515-49-1	N.D.	50	--
7	Diethyl phthalate(DEP)	84-66-2	N.D.	30	--
8	Diisobutyl phthalate(DIBP)	84-69-5	N.D.	30	--
9	Dipentyl phthalate(DPP/DPENP)	131-18-0	N.D.	30	--
10	Dicyclohexyl phthalate(DCHP)	84-61-7	N.D.	30	--
11	Di-n-hexyl phthalate(DNHP/DHEXP)	84-75-3	N.D.	30	--
12	Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	N.D.	30	--
13	Diisopentylphthalate(DIPP)	605-50-5	N.D.	30	--
14	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP)	68515-42-4	N.D.	50	--
15	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP)	71888-89-6	N.D.	50	--
16	Di-iso-hexyl-phthalates(DIH xP)	71850-09-4	N.D.	30	--
17	sum of Phthalates	--	N.D.	--	≤500



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## 14 Polycyclic Aromatic Hydrocarbons (PAHs) (AfPS GS 2019:01 PAK)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Naphthalene	91-20-3	N.D.	N/A	0.2	--
2	Phenanthrene	85-01-8	N.D.	N/A	0.2	--
3	Anthracene	120-12-7	N.D.	N/A	0.2	--
4	Fluoranthene	206-44-0	N.D.	N/A	0.2	--
5	Pyrene	129-00-0	N.D.	N/A	0.2	--
6	Chrysene	218-01-9	N.D.	N/A	0.2	≤0.5
7	Benzo(a)anthracene	56-55-3	N.D.	N/A	0.2	≤0.5
8	Benzo(b)fluoranthene	205-99-2	N.D.	N/A	0.2	≤0.5
9	Benzo(k)fluoranthene	207-08-9	N.D.	N/A	0.2	≤0.5
10	Benzo(j)fluoranthene	205-82-3	N.D.	N/A	0.2	≤0.5
11	Benzo(a)pyrene	50-32-8	N.D.	N/A	0.2	≤0.5
12	Benzo(e)pyrene	192-97-2	N.D.	N/A	0.2	≤0.5
13	Dibenzo(a,h)anthracene	53-70-3	N.D.	N/A	0.2	≤0.5
14	Benzo(g,h,i)perylene	191-24-2	N.D.	N/A	0.2	--
15	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	N/A	0.2	--
16	Acenaphthene	83-32-9	N.D.	N/A	0.2	--
17	Fluorene	86-73-7	N.D.	N/A	0.2	--
18	Acenaphthylene	208-96-8	N.D.	N/A	0.2	--
19	Sum 18 PAHs	--	N.D.	N/A	--	≤10

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Naphthalene	91-20-3	N/A	0.2	--
2	Phenanthrene	85-01-8	N/A	0.2	--
3	Anthracene	120-12-7	N/A	0.2	--
4	Fluoranthene	206-44-0	N/A	0.2	--
5	Pyrene	129-00-0	N/A	0.2	--
6	Chrysene	218-01-9	N/A	0.2	≤0.5
7	Benzo(a)anthracene	56-55-3	N/A	0.2	≤0.5
8	Benzo(b)fluoranthene	205-99-2	N/A	0.2	≤0.5
9	Benzo(k)fluoranthene	207-08-9	N/A	0.2	≤0.5
10	Benzo(j)fluoranthene	205-82-3	N/A	0.2	≤0.5
11	Benzo(a)pyrene	50-32-8	N/A	0.2	≤0.5
12	Benzo(e)pyrene	192-97-2	N/A	0.2	≤0.5
13	Dibenzo(a,h)anthracene	53-70-3	N/A	0.2	≤0.5
14	Benzo(g,h,i)perylene	191-24-2	N/A	0.2	--
15	Indeno(1,2,3-cd)pyrene	193-39-5	N/A	0.2	--
16	Acenaphthene	83-32-9	N/A	0.2	--
17	Fluorene	86-73-7	N/A	0.2	--
18	Acenaphthylene	208-96-8	N/A	0.2	--
19	Sum 18 PAHs	--	N/A	--	≤10

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## 15 Volatile Organic Compounds (VOC) (Solvent Extraction, Analysis by GCMS)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Benzene	71-43-2	N.D.	N.D.	1	≤5
2	Toluene	108-88-3	31	N.D.	10	≤1000
3	o-Xylene	95-47-6	21	101	10	--
4	m-Xylene	108-38-3	14	91	10	--
5	p-Xylene	106-42-3	14	91	10	--
6	o-Cresol	95-48-7	N.D.	N.D.	10	--
7	m-Cresol	108-39-4	N.D.	N.D.	10	--
8	p-Cresol	106-44-5	N.D.	N.D.	10	--
9	Dichloromethane	75-09-2	N.D.	N.D.	10	≤1000
10	Trichloromethane	67-66-3	N.D.	N.D.	10	≤1000
11	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	N.D.	10	≤1000
12	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	N.D.	10	≤1000
13	Trichloroethylene	79-01-6	N.D.	N.D.	10	≤1000
14	Tetrachloroethylene	127-18-4	N.D.	N.D.	10	≤1000
15	Cyclohexane	110-82-7	N.D.	N.D.	10	≤1000
16	Tetrahydrofuran	109-99-9	N.D.	N.D.	10	≤1000
17	Cyclohexanone	108-94-1	79	202	10	≤1000
18	n-Propylbenzene	103-65-1	N.D.	N.D.	50	≤1000
19	Isopropylbenzene	98-82-8	N.D.	N.D.	50	≤1000
20	n-Butylbenzene	104-51-8	N.D.	N.D.	50	≤1000
21	Tert-butylbenzene	98-06-6	N.D.	N.D.	50	≤1000
22	Isobutylbenzene	538-93-2	N.D.	N.D.	50	≤1000
23	Sec-butylbenzene	135-98-8	N.D.	N.D.	50	≤1000
24	Dimethylbenzene/Xylene(meta-,ortho-,para-)	--	49	283	--	≤1000
25	Methylphenol/Cresol(meta-,ortho-,para-)	--	N.D.	N.D.	--	≤1000

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			003			
1	Benzene	71-43-2	N.D.		1	≤5
2	Toluene	108-88-3	N.D.		10	≤1000
3	o-Xylene	95-47-6	N.D.		10	--
4	m-Xylene	108-38-3	N.D.		10	--
5	p-Xylene	106-42-3	N.D.		10	--
6	o-Cresol	95-48-7	N.D.		10	--
7	m-Cresol	108-39-4	N.D.		10	--
8	p-Cresol	106-44-5	N.D.		10	--
9	Dichloromethane	75-09-2	N.D.		10	≤1000
10	Trichloromethane	67-66-3	N.D.		10	≤1000
11	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		10	≤1000
12	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		10	≤1000
13	Trichloroethylene	79-01-6	N.D.		10	≤1000
14	Tetrachloroethylene	127-18-4	N.D.		10	≤1000
15	Cyclohexane	110-82-7	N.D.		10	≤1000
16	Tetrahydrofuran	109-99-9	N.D.		10	≤1000
17	Cyclohexanone	108-94-1	125		10	≤1000
18	n-Propylbenzene	103-65-1	N.D.		50	≤1000
19	Isopropylbenzene	98-82-8	N.D.		50	≤1000
20	n-Butylbenzene	104-51-8	N.D.		50	≤1000
21	Tert-butylbenzene	98-06-6	N.D.		50	≤1000
22	Isobutylbenzene	538-93-2	N.D.		50	≤1000
23	Sec-butylbenzene	135-98-8	N.D.		50	≤1000
24	Dimethylbenzene/Xylene(meta-,ortho-,para-)	--	N.D.		--	≤1000
25	Methylphenol/Cresol(meta-,ortho-,para-)	--	N.D.		--	≤1000

## 16 N,N-dimethylformamide (Solvent Extraction -DIN EN 17131(2019))

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	N,N-dimethylformamide(DM Fa)	68-12-2	N.D.	N.D.	5	≤500

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			003			
1	N,N-dimethylformamide(DM Fa)	68-12-2	N.D.		5	≤500

## 17 Solvents/Residuals (DIN CEN ISO/TS 16189:2013)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	N,N-dimethylacetamide(DM AC)	127-19-5	N.D.	N.D.	50	≤1000
2	N-Methyl pyrrolidone(NMP)	872-50-4	N.D.	N.D.	50	≤1000

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			003			
1	N,N-dimethylacetamide(DM AC)	127-19-5	N.D.		50	≤1000
2	N-Methyl pyrrolidone(NMP)	872-50-4	N.D.		50	≤1000

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## 18 Azo Dyes (DIN EN ISO 14362-1:2017& DIN EN ISO 14362-3:2017)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	4-aminobiphenyl	92-67-1	N.D.	N.D.	5	≤20
2	Benzidine	92-87-5	N.D.	N.D.	5	≤20
3	4-chloro-o-toluidine	95-69-2	N.D.	N.D.	5	≤20
4	2-naphthylamine	91-59-8	N.D.	N.D.	5	≤20
5	o-aminoazotoluene	97-56-3	N.D.	N.D.	5	≤20
6	5-nitro-o-toluidine	99-55-8	N.D.	N.D.	5	≤20
7	4-chloroaniline	106-47-8	N.D.	N.D.	5	≤20
8	2,4-diaminoanisole	615-05-4	N.D.	N.D.	5	≤20
9	4,4'-Diaminodiphenylmethane	101-77-9	N.D.	N.D.	5	≤20
10	3,3'-dimethoxybenzidine	119-90-4	N.D.	N.D.	5	≤20
11	3,3'-dimethylbenzidine	119-93-7	N.D.	N.D.	5	≤20
12	3,3'-dichlorobenzidine	91-94-1	N.D.	N.D.	5	≤20
13	4,4'-methylenedi-o-toluidine	838-88-0	N.D.	N.D.	5	≤20
14	6-methoxy-m-toluidine	120-71-8	N.D.	N.D.	5	≤20
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	N.D.	N.D.	5	≤20
16	4,4'-oxydianiline	101-80-4	N.D.	N.D.	5	≤20
17	4,4'-thiodianiline	139-65-1	N.D.	N.D.	5	≤20
18	2,4-xylidine	95-68-1	N.D.	N.D.	5	≤20
19	o-Toluidine	95-53-4	N.D.	N.D.	5	≤20
20	2,4,5-trimethylaniline	137-17-7	N.D.	N.D.	5	≤20
21	2-Methoxyaniline (o-Anisidine)	90-04-0	N.D.	N.D.	5	≤20
22	4-aminoazobenzene	60-09-3	N.D.	N.D.	5	≤20
23	2,4-diaminotoluene	95-80-7	N.D.	N.D.	5	≤20
24	2,6-xylidine	87-62-7	N.D.	N.D.	5	≤20
25	4-chloro-o-toluidinium chloride	3165-93-3	N.D.	N.D.	5	≤20
26	2-Naphthylammoniumacetate	553-00-4	N.D.	N.D.	5	≤20
27	2,4-diaminoanisole sulphate	39156-41-7	N.D.	N.D.	5	≤20
28	2,4,5-trimethylaniline hydrochloride	21436-97-5	N.D.	N.D.	5	≤20

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	4-aminobiphenyl	92-67-1	N.D.	5	≤20
2	Benzidine	92-87-5	N.D.	5	≤20
3	4-chloro-o-toluidine	95-69-2	N.D.	5	≤20
4	2-naphthylamine	91-59-8	N.D.	5	≤20
5	o-aminoazotoluene	97-56-3	N.D.	5	≤20
6	5-nitro-o-toluidine	99-55-8	N.D.	5	≤20
7	4-chloroaniline	106-47-8	N.D.	5	≤20
8	2,4-diaminoanisole	615-05-4	N.D.	5	≤20
9	4,4'-Diaminodiphenylmethane	101-77-9	N.D.	5	≤20
10	3,3'-dimethoxybenzidine	119-90-4	N.D.	5	≤20
11	3,3'-dimethylbenzidine	119-93-7	N.D.	5	≤20
12	3,3'-dichlorobenzidine	91-94-1	N.D.	5	≤20
13	4,4'-methylenedi-o-toluidine	838-88-0	N.D.	5	≤20
14	6-methoxy-m-toluidine	120-71-8	N.D.	5	≤20
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	N.D.	5	≤20
16	4,4'-oxydianiline	101-80-4	N.D.	5	≤20
17	4,4'-thiodianiline	139-65-1	N.D.	5	≤20
18	2,4-xylylidine	95-68-1	N.D.	5	≤20
19	o-Toluidine	95-53-4	N.D.	5	≤20
20	2,4,5-trimethylaniline	137-17-7	N.D.	5	≤20
21	2-Methoxyaniline (o-Anisidine)	90-04-0	N.D.	5	≤20
22	4-aminoazobenzene	60-09-3	N.D.	5	≤20
23	2,4-diaminotoluene	95-80-7	N.D.	5	≤20
24	2,6-xylylidine	87-62-7	N.D.	5	≤20
25	4-chloro-o-toluidinium chloride	3165-93-3	N.D.	5	≤20
26	2-Naphthylammoniumacetate	553-00-4	N.D.	5	≤20
27	2,4-diaminoanisole sulphate	39156-41-7	N.D.	5	≤20
28	2,4,5-trimethylaniline hydrochloride	21436-97-5	N.D.	5	≤20

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## 19 Quinoline (GC/MS or LC/MS)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
			001	002		
1	Quinoline	91-22-5	N.D.	N.D.	10	≤50

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			003		
1	Quinoline	91-22-5	N.D.	10	≤50

Remark: -MDL = Method Detection Limit  
 -N.D. = Not Detected (<MDL)  
 -mg/kg = ppm = parts per million  
 -\* = As specified by the client, the test result(s) was/ were based on the dry weight of the submitted sample(s).The result is to be calculated on a dry weight basis.

### Tested Sample/Part Description

No.	CTI Sample ID	Description
1	001	Black ink
2	002	Light onix ink
3	003	Dark onix ink

### Statement:

1. This report is considered invalidated without approval signature, special stamp;
2. Company name and address shown on report, the sample(s) and sample Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;

\*\*\* End of Report \*\*\*

