

Test Report

No.: 70.431.26.14822.01

Date: 2026-06-09



Applicant: PF CONCEPT INTERNATIONAL COÖPERATIEF U.A.
Address: SCHIPHOLWEG 59 2316 ZL LEIDEN THE NETHERLANDS
Item No: 10709121-RD/ 10728701-WH/ 10728721-RD/ 10728755-OBL/ 10728762-HGR/
10728790-BK/ 10740201-WH/ 10740221-RD/ 10740231-ORG/ 10740250-LBL/
10740253-RBL/ 10740255-NY/ 10740263-LGR/ 10740290-BK/ 10740301-WH/
10740321-RD/ 10740331-ORG/ 10740350-LBL/ 10740353-RBL/ 10740355-NY/
10740363-LGR/ 10740390-BK
Description: Spectrum A5 blank/
Rec hard bound journal/ Spectrum plus A5 bundle/ Recycled Spectrum A5
PO No.: 676560/ 676562/ 676949/ 676950
Vendor No.: #10349
Factory No.: #13916
Country of Origin: CHINA
Country of Destination: EU
Receipt Date of Sample: 2026-05-26
Date of Testing: 2026-05-26 ~ 2026-06-09
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 63 - Lead Content	Pass
2. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content	Pass
3. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 43 - Azocolourants Content	Pass
4. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - N,N-dimethylacetamide (DMAC)	<0.1%(W/W)
5. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
6. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 & 52 - Phthalates Content	Pass
7. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Phthalates	Pass
8. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Tris(2-chloroethyl) phosphate (TCEP)	<0.1%(W/W)
9. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 4-[4,4-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3)	<0.1%(W/W)
10. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	<0.1%(W/W)
11. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Dibutylbis(pentane-2,4dionato-O,O')tin Content	<0.1%(W/W)
12. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) -2-methylimidazole Content	<0.1%(W/W)

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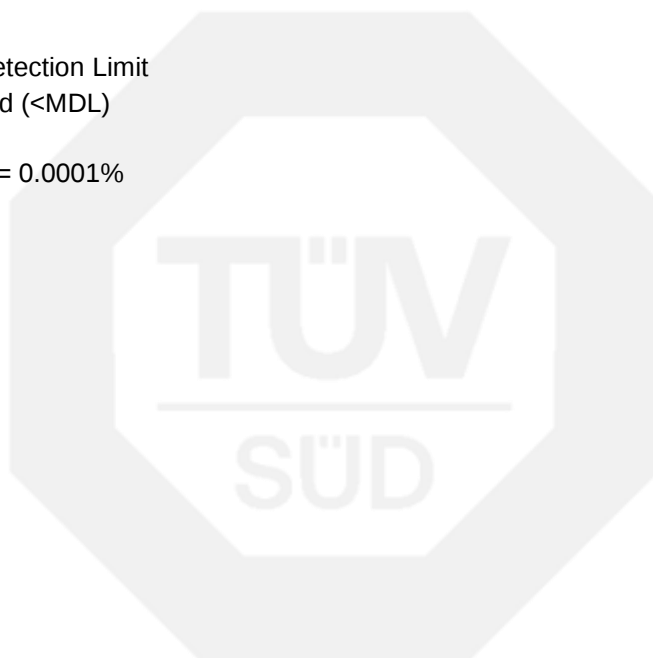
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Test Item	Conclusion
13. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	<0.1%(W/W)
14. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	<0.1%(W/W)
15. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	<0.1%(W/W)
16. European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) - Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	Pass
17. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 27 - Nickel Release	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%



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TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center

Prepared by:

Authorized by:



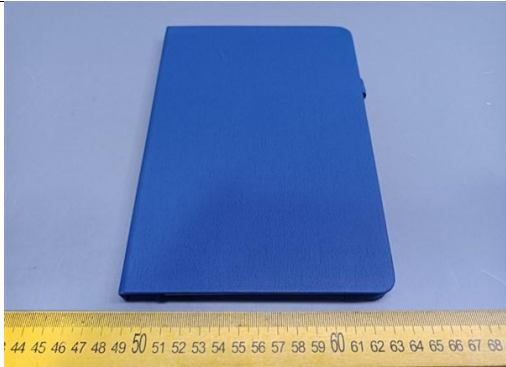
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Technical Engineer

Steven Xu
Technical Reviewer

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Description of Tested Subject:

Sample	Description	Photo
001	Spectrum A5 blank 10709121-RD	
002	Rec hard bound journal 10728701-WH	
003	Rec hard bound journal 10728721-RD	
004	Rec hard bound journal 10728755-OBL	

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Sample	Description	Photo
005	Rec hard bound journal 10728762-HGR	
006	Rec hard bound journal 10728790-BK	
007	Spectrum plus A5 bundle 10740201-WH	
008	Spectrum plus A5 bundle 10740221-RD	

Sample	Description	Photo
009	Spectrum plus A5 bundle 10740231-ORG	
010	Spectrum plus A5 bundle 10740250-LBL	
011	Spectrum plus A5 bundle 10740253-RBL	
012	Spectrum plus A5 bundle 10740255-NY	

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Sample	Description	Photo
013	Spectrum plus A5 bundle 10740263-LGR	
014	Spectrum plus A5 bundle 10740290-BK	
015	Recycled Spectrum A5 10740301-WH	
016	Recycled Spectrum A5 10740321-RD	

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Sample	Description	Photo
017	Recycled Spectrum A5 10740331-ORG	
018	Recycled Spectrum A5 10740350-LBL	
019	Recycled Spectrum A5 10740353-RBL	
020	Recycled Spectrum A5 10740355-NY	

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Sample	Description	Photo
021	Recycled Spectrum A5 10740363-LGR	
022	Recycled Spectrum A5 10740390-BK	

T. No	Sample	Description
T1	023	Red PU (cover, 001)
T2	024	White PU (cover, 002)
T3	025	Red PU (cover, 003)
T4	026	Blue PU (cover, 004)
T5	027	Green PU (cover, 005)
T6	028	Black PU (cover, 006)
T7	029	White PU (cover, 007/015)
T8	030	Red PU (cover, 008/016)
T9	031	Orange PU (cover, 009/017)
T10	032	Light blue PU (cover, 010/018)
T11	033	Blue PU (cover, 011/019)
T12	034	Navy blue PU (cover, 012/020)
T13	035	Green PU (cover, 013/021)
T14	036	Black PU (cover, 014/022)
T15	037	Red ribbon maker (001/003/008/016)
T16	038	White ribbon maker (002/007/015)
T17	039	Blue ribbon maker (004)
T18	040	Green ribbon maker (005)
T19	041	Black ribbon maker (006/014/022)
T20	042	Orange ribbon maker (009/017)
T21	043	Light blue ribbon maker (010/018)
T22	044	Blue ribbon maker (011/019)
T23	045	Navy blue ribbon maker (012/020)

Laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd.

Shanghai Branch, Testing Center

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TÜV SÜD Certification and Testing (China) Co., Ltd.

Shanghai Branch, TÜV SÜD Group

Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

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T. No	Sample	Description
T24	046	Green ribbon maker (013/021)
T25	047	Red elastic band (001/003/008/016)
T26	048	White elastic band (002/007/015)
T27	049	Blue elastic band (004)
T28	050	Green elastic band (005)
T29	051	Black elastic band (006/014/022)
T30	052	Orange elastic band (009/017)
T31	053	Light blue elastic band (010/018)
T32	054	Blue elastic band (011/019)
T33	055	Navy blue elastic band (012/020)
T34	056	Green elastic band (013/021)
T35	057	White paper with black printing (inner page, 001/007~022)
T36	058	Beige paper with black printing (inner page/pocket, 002~006)
T37	059	Brown paper (fly page, 001~022)
T38	060	Beige fabric with paper (pocket, 002~006)
T39	061	White coated metal (barrel, 007)
T40	062	Red coated metal (barrel, 008)
T41	063	Orange coated metal (barrel, 009)
T42	064	Light blue coated metal (barrel, 010)
T43	065	Blue coated metal (barrel, 011)
T44	066	Navy blue coated metal (barrel, 012)
T45	067	Green coated metal (barrel, 013)
T46	068	Black coated metal (barrel, 014)
T47	069	Transparent plastic (nib/end/clip, 007~014)
T48	070	White plastic (upper tooth column, 007~014)
T49	071	Blue plastic (lower tooth column, 007~014)
T50	072	White plastic (inner barrel, 007)
T51	073	White plastic (refill, 007~014)
T52	074	Silvery metal spring (end of stopper, 007~014)
T53	075	Grey metal spring (inner barrel, 007~014)
T54	076	White coated metal (nib spring, 007)
T55	077	Red coated metal (nib spring, 008)
T56	078	Orange coated metal (nib spring, 009)
T57	079	Light blue coated metal (nib spring, 010)
T58	080	Blue coated metal (nib spring, 011)
T59	081	Navy blue coated metal (nib spring, 012)
T60	082	Green coated metal (nib spring, 013)
T61	083	Black coated metal (nib spring, 014)
T62	084	Blue ink (007~014)
T63	085	Red plastic (inner barrel, 008)
T64	086	Orange plastic (inner barrel, 009)
T65	087	Light blue plastic (inner barrel, 010)
T66	088	Blue plastic (inner barrel, 011)
T67	089	Navy blue plastic (inner barrel, 012)
T68	090	Green plastic (inner barrel, 013)
T69	091	Black plastic (inner barrel, 014)

Laboratory:

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Test Result(s):

1. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 63 - Lead Content

Test with reference to in-house method, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
023+024+025	mg/kg	10.0	500	ND	Pass
026+027+028	mg/kg	10.0	500	ND	Pass
029+030+031	mg/kg	10.0	500	ND	Pass
032+033+034	mg/kg	10.0	500	ND	Pass
035+036+060	mg/kg	10.0	500	ND	Pass
037+038+039	mg/kg	10.0	500	ND	Pass
040+041+042	mg/kg	10.0	500	ND	Pass
043+044+045	mg/kg	10.0	500	ND	Pass
046+056	mg/kg	10.0	500	ND	Pass
047+048+049	mg/kg	10.0	500	ND	Pass
050+051+052	mg/kg	10.0	500	ND	Pass
053+054+055	mg/kg	10.0	500	ND	Pass
057+058+059	mg/kg	10.0	500	ND	Pass
061+062+063	mg/kg	10.0	500	ND	Pass
064+065+066	mg/kg	10.0	500	ND	Pass
067+068+076	mg/kg	10.0	500	ND	Pass
069+070+071	mg/kg	10.0	500	ND	Pass
072+073+085	mg/kg	10.0	500	ND	Pass
074+075+083	mg/kg	10.0	500	ND	Pass
077+078+079	mg/kg	10.0	500	ND	Pass
080+081+082	mg/kg	10.0	500	ND	Pass
084	mg/kg	10.0	500	ND	Pass
086+087+088	mg/kg	10.0	500	ND	Pass
089+090+091	mg/kg	10.0	500	ND	Pass

2. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content

Test with reference to EN 1122:2001 Method B, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
023+024+025	mg/kg	10.0	100	ND	Pass
026+027+028	mg/kg	10.0	100	ND	Pass
029+030+031	mg/kg	10.0	100	ND	Pass
032+033+034	mg/kg	10.0	100	ND	Pass
035+036+060	mg/kg	10.0	100	ND	Pass
037+038+039	mg/kg	10.0	100	ND	Pass
040+041+042	mg/kg	10.0	100	ND	Pass
043+044+045	mg/kg	10.0	100	ND	Pass
046+056	mg/kg	10.0	100	ND	Pass
047+048+049	mg/kg	10.0	100	ND	Pass
050+051+052	mg/kg	10.0	100	ND	Pass
053+054+055	mg/kg	10.0	100	ND	Pass
057+058+059	mg/kg	10.0	100	ND	Pass
061+062+063	mg/kg	10.0	100	ND	Pass
064+065+066	mg/kg	10.0	100	ND	Pass
067+068+076	mg/kg	10.0	100	ND	Pass
069+070+071	mg/kg	10.0	100	ND	Pass
072+073+085	mg/kg	10.0	100	ND	Pass
077+078+079	mg/kg	10.0	100	ND	Pass
080+081+082	mg/kg	10.0	100	ND	Pass
083	mg/kg	10.0	100	ND	Pass
084	mg/kg	10.0	100	ND	Pass
086+087+088	mg/kg	10.0	100	ND	Pass
089+090+091	mg/kg	10.0	100	ND	Pass

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3. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 43 - Azocolourants Content

Test with reference to EN ISO 14362-1:2017,determination by GC-MS,HPLC-DAD..

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					037+038+039 Colorant extraction	040+041+042 Colorant extraction
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND	ND
4,4'- diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND	ND
4,4'-methylene-bis-(2-chloro- aniline)	101-14-4	mg/kg	5.0	30	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					043+044+045 Colorant extraction	046+047+048 Colorant extraction
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					049+050+051 Colorant extraction	052+053+054 Colorant extraction
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					055+056 Colorant extraction
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND
Conclusion					Pass

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤ 30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) Banned AZO dyes in accordance to REACH regulation (EC) No. 1907/2006 and Amendment No. 552/2009 Annex XVII Item 43 (formerly known as 2002/61/EC)

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4. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - N,N-dimethylacetamide (DMAC)

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					037+038+039+040+041+042+043+044+045+046	047+048+049+050+051+052+053+054+055+056
N,N-dimethylacetamide (DMAC)	127-19-5	%	0.01	0.1	ND	ND

5. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					047+048+049	050+051+052
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	1	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	1	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	1	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	1	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	1	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	1	ND	ND
Dibenzo[a,h]anthracene (DBA _h A)	53-70-3	mg/kg	0.1	1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					053+054+055	056
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	1	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	1	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	1	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	1	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	1	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	1	ND	ND
Dibenzo[a,h]anthracene (DBA _h A)	53-70-3	mg/kg	0.1	1	ND	ND
Conclusion					Pass	Pass

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6. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 & 52 - Phthalates Content

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					023+024+025	026+027+028
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					029+030+031	032+033+034
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					035+036+047	048+049+050
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					051+052+053	054+055+056
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

7. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Phthalates

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					023+024+025	026+027+028
Benzylbutylphthalate (BBP)	85-68-7	%	0.01	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.01	0.1	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.01	0.1	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	ND	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	ND	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.01	0.1	ND	ND
N-pentyl-isopentylphthalate	776297-69-9	%	0.01	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.01	0.1	ND	ND
Di-n-hexyl phthalate (DnHP/DHP/DHEXP)	84-75-3	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	ND	ND
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	%	0.01	0.1	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.01	0.1	ND	ND
Diisohexyl phthalate (DIHxP)	71850-09-4	%	0.01	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					029+030+031	032+033+034
Benzylbutylphthalate (BBP)	85-68-7	%	0.01	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.01	0.1	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.01	0.1	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	ND	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	ND	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.01	0.1	ND	ND
N-pentyl-isopentylphthalate	776297-69-9	%	0.01	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.01	0.1	ND	ND
Di-n-hexyl phthalate (DnHP/DHP/DHEXP)	84-75-3	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	ND	ND
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	%	0.01	0.1	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.01	0.1	ND	ND
Diisohexyl phthalate (DIHxP)	71850-09-4	%	0.01	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					035+036+047	048+049+050
Benzylbutylphthalate (BBP)	85-68-7	%	0.01	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.01	0.1	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.01	0.1	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	ND	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	ND	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.01	0.1	ND	ND
N-pentyl-isopentylphthalate	776297-69-9	%	0.01	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.01	0.1	ND	ND
Di-n-hexyl phthalate (DnHP/DHP/DHEXP)	84-75-3	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	ND	ND
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	%	0.01	0.1	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.01	0.1	ND	ND
Diisohexyl phthalate (DIHxP)	71850-09-4	%	0.01	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					051+052+053	054+055+056
Benzylbutylphthalate (BBP)	85-68-7	%	0.01	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.01	0.1	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.01	0.1	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	ND	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	ND	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.01	0.1	ND	ND
N-pentyl-isopentylphthalate	776297-69-9	%	0.01	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.01	0.1	ND	ND
Di-n-hexyl phthalate (DnHP/DHP/DHEXP)	84-75-3	%	0.01	0.1	ND	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	ND	ND
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	%	0.01	0.1	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.01	0.1	ND	ND
Diisohexyl phthalate (DIHxP)	71850-09-4	%	0.01	0.1	ND	ND
Conclusion					Pass	Pass

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8. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Tris(2-chloroethyl) phosphate (TCEP)

Test with reference to in-house method, determination by LC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					023+024+025+026+027+028+029+030+031+032	033+034+035+036
Tris (2-chloroethyl) phosphate	115-96-8	%	0.01	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					047+048+049+050+051+052+053+054+055+056	
Tris (2-chloroethyl) phosphate	115-96-8	%	0.01	0.1	ND	

9. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 4-[4,4-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3)

Test with reference to in-house method, determination by LC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					047+048+049+050+051+052+053+054+055+056	
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	%	0.01	0.1	ND	

10. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)

Test with reference to in house method and determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					023+024+025+026+027+028+029+030+031+032	033+034+035+036+069+070+071+072+073
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	% w/w	0.01	0.1	ND	ND

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					037+038+039+040+041+042+043+044+045+046	047+048+049+050+051+052+053+054+055+056
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	% w/w	0.01	0.1	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					085+086+087+088+089+090+091	
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	% w/w	0.01	0.1	ND	

11. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Dibutylbis(pentane-2,4dionato-O,O')tin Content

Test with reference to in house method and determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					023+024+025+026+027+028+029+030+031+032	033+034+035+036+069+070+071+072+073
Dibutylbis(pentane-2,4dionato-O,O')tin	22673-19-4 (245-152-0)	% w/w	0.01	0.1	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					037+038+039+040+041+042+043+044+045+046	047+048+049+050+051+052+053+054+055+056
Dibutylbis(pentane-2,4dionato-O,O')tin	22673-19-4 (245-152-0)	% w/w	0.01	0.1	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					085+086+087+088+089+090+091	
Dibutylbis(pentane-2,4dionato-O,O')tin	22673-19-4 (245-152-0)	% w/w	0.01	0.1	ND	

12. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) -2-methylimidazole Content

Test with reference to in house method and determination by GC-MS,HPLC-DAD..

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					023+024+025+026+027+028+029+030+031+032	033+034+035+036+069+070+071+072+073
2-methylimidazole	693-98-1	% w/w	0.01	0.1	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					037+038+039+040+041+042+043+044+045+046	047+048+049+050+051+052+053+054+055+056
2-methylimidazole	693-98-1	% w/w	0.01	0.1	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					085+086+087+088+089+090+091	
2-methylimidazole	693-98-1	% w/w	0.01	0.1	ND	

13. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					047+048+049+050+051+052+053+054+055+056	
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	% w/w	0.01	0.1	ND	

14. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Test with reference to in house method and determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					047+048+049+050+051+052+053+054+055+056	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	% w/w	0.01	0.1	ND	

15. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone

Test with reference to in house method and determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					047+048+049+050+051+052+053+054+055+056
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	% w/w	0.01	0.1	ND

16. European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) - Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					047+048+049	050+051+052
SCCP	85535-84-8	mg/kg	100	1500	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					053+054+055	056
SCCP	85535-84-8	mg/kg	100	1500	ND	ND
Conclusion					Pass	Pass

17. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 27 - Nickel Release

Test with reference to EN 12472:2020+EN 1811:2023, determination by ICP-OES.

Sample	Size of Tested Sample Area (cm ²)	Volume of Test Solution Used (mL)	Experimental result(s) (ug/cm ² /week)	Limit (ug/cm ² /week)	Conclusion
061	29.10	29.1	<0.1	0.5	Pass
	29.10	29.1	<0.1	0.5	
	29.10	29.1	<0.1	0.5	

-End of Test Report-