

Test Report

No.: 70.431.24.18243.03

Date: 2025-03-18



Applicant: PF CONCEPT INTERNATIONAL COÖPERATIEF U.A.
Address: KABELWEG 1
2371 DX ROELOFARENDSEVEEN
THE NETHERLANDS
Product Name: Rover plus cabin trolley
Model No.: 13008781-SL / 13008790-BK
PO/Order No.: PO#666423
Manufacturer: #11889
Factory No.: #14115
Country of Origin: CHINA
Country of Destination: EU
Receipt Date of Sample: 2025-03-07
Date of Testing: 2025-03-07 ~ 2025-03-18
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 51 & 52 - Phthalates Content	Pass
2. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 43 - Azocolourants Content	Pass
3. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content	Pass
4. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 63 - Lead Content	Pass
5. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Dyestuff Content	Pass
6. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Chlorotoluenes content	Pass
7. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - N,N-dimethylacetamide (DMAC) Content	Pass
8. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Dimethylformamide Content	Pass
9. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - N-Methyl-4-pyrrolidone Content	Pass
10. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Quinoline	Pass
11. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Extractable heavy metals	Pass
12. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
13. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Benzene Content	Pass
14. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Phthalates Content	Pass
15. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Azo Dyes Content	Pass
16. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Formaldehyde Content	Pass
17. European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) - Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	Pass

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Test Item	Conclusion
18. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - N,N-dimethylacetamide (DMAC)	Pass
19. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320), 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328), 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) and 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	<0.1% w/w
20. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Tris(2-chloroethyl) phosphate (TCEP)	<0.1% w/w
21. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - C,C-Azodi(formamide)	Pass
22. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Phthalates	Pass
23. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) Content	<0.1% w/w
24. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Dibutylbis(pentane-2,4dionato-O,O')tin Content	<0.1% w/w
25. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) -2-methylimidazole Content	<0.1% w/w

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:

Jenny Yao
Technical Engineer

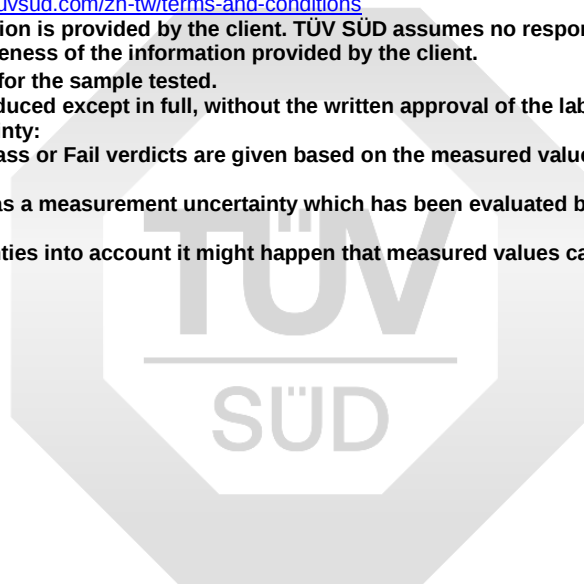


Authorized by:

Sawyer Tang
Technical Manager

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Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements.
By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.



Laboratory:

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Description of Tested Subject:

Sample	Description	Photo
001	Rover plus cabin trolley	
002	Rover plus cabin trolley	

T. No	Sample	Description
T1	003	Grey plastic (body,001)
T2	004	Black plastic (handle,001,002)
T3	005	Black soft plastic (handle,001,002)
T4	006	Black plastic (pole handle,001,002)
T5	007	Black plastic with white printing (lock,001,002)
T6	008	Black plastic (lock,001,002)
T7	009	Black plastic (USB lock,001,002)
T8	010	Black soft plastic (USB lock,001,002)
T9	012	Black soft plastic (binding,001,002)
T10	013	Black plastic (wheel frame,001,002)
T11	014	Black soft plastic (wheel hub,001,002)
T12	015	Black coated metal (zipper puller/slider,001,002)
T13	016	Black plastic (zipper teeth,001,002)
T14	017	Black fabric (zipper tape,001,002)
T15	018	Grey fabric (lining,001,002)
T16	019	Grey mesh fabric (pocket,001,002)
T17	020	Grey fabric (zipper tape,001,002)
T18	021	Grey fabric (binding,001,002)
T19	022	Grey plastic (zipper teeth,001,002)

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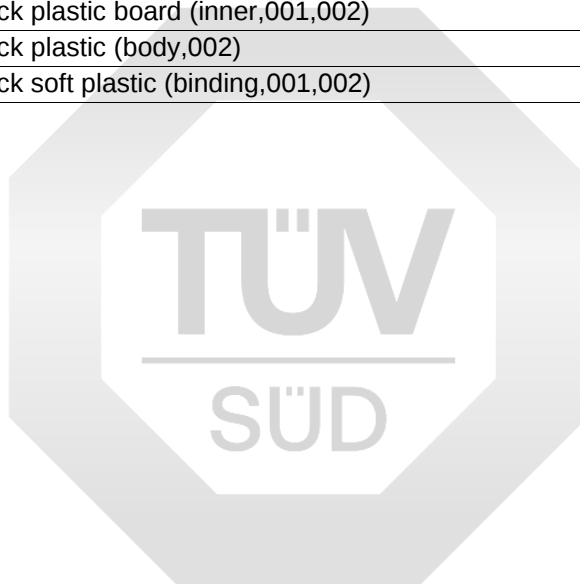
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T. No	Sample	Description
T20	023	Grey plastic (inner buckle,001,002)
T21	024	Grey fabric (webbing,001,002)
T22	025	Silvery metal (pole,001,002)
T23	026	White plastic (on pole,001,002)
T24	027	Grey elastic band (001,002)
T25	028	Silvery metal (USB,001,002)
T26	029	Black soft plastic (USB wire jacket,001,002)
T27	030	Grey plastic hook fastener (001,002)
T28	031	Grey textile loop fastener (001,002)
T29	032	Black soft plastic (hole,001,002)
T30	033	Black coated metal (rivet,001,002)
T31	034	Black coated metal (name brand,001,002)
T32	035	Silvery metal (lock,001,002)
T33	036	Black non-woven fabric (inner,001,002)
T34	037	White foam (inner,001,002)
T35	038	Black plastic board (inner,001,002)
T36	039	Black plastic (body,002)
T37	040	Black soft plastic (binding,001,002)



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Test Result(s):

1. 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)
					005+014
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND
Conclusion					Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					010+032	012+029
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	0.005
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	0.005
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)	
					018	040
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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2. 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.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					018+019+024
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)

3. 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
003+004+006	mg/kg	10.0	100	ND	Pass
005+010+012	mg/kg	10.0	100	ND	Pass
007+008+009	mg/kg	10.0	100	ND	Pass
013+016+022	mg/kg	10.0	100	ND	Pass
014+029+032	mg/kg	10.0	100	ND	Pass
017+018+019	mg/kg	10.0	100	ND	Pass
020+021+024	mg/kg	10.0	100	ND	Pass
023+026+030	mg/kg	10.0	100	ND	Pass
027+031+036	mg/kg	10.0	100	ND	Pass
037	mg/kg	10.0	100	ND	Pass
038	mg/kg	10.0	100	ND	Pass
039	mg/kg	10.0	100	ND	Pass
040	mg/kg	10.0	100	ND	Pass

4. 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
003+004+006	mg/kg	10.0	500	ND	Pass
005+010+012	mg/kg	10.0	500	ND	Pass
007+008+009	mg/kg	10.0	500	ND	Pass
013+016+022	mg/kg	10.0	500	ND	Pass
014+029+032	mg/kg	10.0	500	ND	Pass
015+025+028	mg/kg	10.0	500	ND	Pass
017+018+019	mg/kg	10.0	500	ND	Pass
020+021+024	mg/kg	10.0	500	ND	Pass
023+026+030	mg/kg	10.0	500	ND	Pass
027+031+036	mg/kg	10.0	500	ND	Pass
033+034+035	mg/kg	10.0	500	ND	Pass
039	mg/kg	10.0	500	ND	Pass
040	mg/kg	10.0	500	ND	Pass

5. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Dyestuff Content

Test with reference to DIN 54231:2022, determination by LC-MS-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					018+019+024
C.I. Basic Red 9	569-61-9	mg/kg	7.5	50	ND
C.I. Disperse Blue 1	2475-45-8	mg/kg	7.5	50	ND
Basic Violet 3	548-62-9	mg/kg	7.5	50	ND
Conclusion					Pass

6. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Chlorotoluenes content

Test with reference to DIN 54232:2010, determination by GC-MS.

Parameter	MDL [ppm]	Limit [ppm]	Result(s) [ppm]
			018
p-Chlorobenzotrichloride	0.1	1	ND
Benzotrichloride	0.1	1	ND
BenzylChloride	0.1	1	ND
Conclusion			Pass

7. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - N,N-dimethylacetamide (DMAC) Content

Test with reference to DIN CEN ISO/TS 16189:2013, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					018+019+024
N,N-dimethylacetamide (DMAC)	127-19-5	mg/kg	50	3000	ND
Conclusion					Pass

8. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Dimethylformamide Content

Test with reference to DIN CEN ISO/TS 16189:2013, determination by GC-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			018
Dimethylformamide	10	3000	ND
Conclusion			Pass

9. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - N-Methyl-4-pyrrolidone Content

Test with reference to DIN CEN ISO/TS 16189:2013, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					018
1-Methyl-2-pyrrolidone	872-50-4	mg/kg	100	3000	ND
Conclusion					Pass

10. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Quinoline

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

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			018+019+024
Quinoline	10	50	ND
Conclusion			Pass

11. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Extractable heavy metals

Test with reference to EN 16711-2:2015, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			018	019
Cadmium As (Cd)	0.1	1	ND	ND
Arsenic As (As)	0.2	1	ND	ND
Chromium VI (Cr VI)*	0.5	1	ND	ND
Lead As (Pb)	0.2	1	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			024
Cadmium As (Cd)	0.1	1	ND
Arsenic As (As)	0.2	1	ND
Chromium VI (Cr VI)*	0.5	1	ND
Lead As (Pb)	0.2	1	ND
Conclusion			Pass

Remark: *=Chromium VI was determined by screening of chromium.

12. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Polycyclic Aromatic Hydrocarbons (PAHs)

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					018+019+024
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	1	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	1	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	1	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	1	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	1	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	1	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	1	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	1	ND
Conclusion					Pass

13. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Benzene Content

Test with reference to EPA 3550C:2007, determination by GC-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			018
Benzene	5	5	ND
Conclusion			Pass

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14. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Phthalates Content

Test with reference to EN ISO 14389:2014, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					018+019+024
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	mg/kg	50	-	ND
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	mg/kg	50	-	ND
Diisopentyl phthalate (DiPP)	605-50-5	mg/kg	50	-	ND
Dipentyl phthalate (DPP)	131-18-0	mg/kg	50	-	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	mg/kg	50	-	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	mg/kg	50	-	ND
Dibutyl phthalate, (DBP)	84-74-2	mg/kg	50	-	ND
Benzyl butyl phthalate, (BBP)	85-68-7	mg/kg	50	-	ND
Diisobutylphthalate, (DIBP)	84-69-5	mg/kg	50	-	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	mg/kg	50	-	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	mg/kg	50	-	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	mg/kg	50	-	ND
n-Pentyl-isopentylphthalate (nPiPP)	776297-69-9	mg/kg	50	-	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	mg/kg	50	-	ND
Diisooctyl phthalate (DIOP)	27554-26-3	mg/kg	50	-	ND
Di-iso-hexyl phthalate, DiHxP	71850-09-4	mg/kg	50	-	ND
Sum of detected phthalates	-	mg/kg	50	1000	ND
Conclusion					Pass

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15. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Azo Dyes Content

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					018+019+024
4-Chloro-o-toluidinium chloride	3165-93-3	mg/kg	5.0	30	ND
2-Naphthylammoniumacetate	553-00-4	mg/kg	5.0	30	ND
4-Methoxy-m-phenylene diammonium sulphate	39156-41-7	mg/kg	5.0	30	ND
2,4,5-Trimethylaniline hydrochloride	21436-97-5	mg/kg	5.0	30	ND
Conclusion					Pass

16. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 72 - Formaldehyde Content

Test with reference to EN ISO 14184-1:2011, determination by UV-Vis.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			018+019+024
Formaldehyde	16	75	16
Conclusion			Pass

17. 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)	
					005	010+032
SCCP	85535-84-8	mg/kg	100	1500	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012+014	029
SCCP	85535-84-8	mg/kg	100	1500	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					040
SCCP	85535-84-8	mg/kg	100	1500	ND
Conclusion					Pass

18. 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)
					018+019+024
N,N-dimethylacetamide (DMAC)	127-19-5	%	0.01	0.1	ND
Conclusion					Pass

19. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320), 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328), 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) and 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003+004+005+006+007+008+009+010+012	013+014+016+022+023+026+029+030+032+038
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	%	0.01	0.1	ND	ND
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	%	0.01	0.1	ND	ND
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	%	0.01	0.1	ND	ND
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	%	0.01	0.1	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					017+018+019+020+021+024+027+031+036+039
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	%	0.01	0.1	ND
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	%	0.01	0.1	ND
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	%	0.01	0.1	ND
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	%	0.01	0.1	ND

20. 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)
					005+010+012+014+029+032
Tris (2-chloroethyl) phosphate	115-96-8	%	0.01	0.1	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					040
Tris (2-chloroethyl) phosphate	115-96-8	%	0.01	0.1	ND

21. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) -C,C'-Azodi(formamide)

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					037
C,C'-azodi(formamide)	123-77-3	mg/kg	100	1000	ND
Conclusion					Pass

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22. 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)	
					005+014	010+032
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)	
					012+029	018
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)
					040
Benzylbutylphthalate (BBP)	85-68-7	%	0.01	0.1	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.01	0.1	ND
Dibutylphthalate (DBP)	84-74-2	%	0.01	0.1	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.01	0.1	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	0.1	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	0.1	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.01	0.1	ND
N-pentyl-isopentylphthalate	776297-69-9	%	0.01	0.1	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.01	0.1	ND
Di-n-hexyl phthalate (DnHP/DHP/DHEXP)	84-75-3	%	0.01	0.1	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	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
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.01	0.1	ND
Diisohexyl phthalate (DIHxP)	71850-09-4	%	0.01	0.1	ND
Conclusion					Pass

23. Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) - Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) Content

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					003+004+005+006+007+008+009+010+012
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	% w/w	0.01	0.1	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					013+014+016+022+023+026+029+030+032+038
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	% w/w	0.01	0.1	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					017+018+019+020+021+024+027+031+036+039
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	% w/w	0.01	0.1	ND

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24. 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)
					003+004+005+006+007+008+009+010+012
Dibutylbis(pentane-2,4dionato-O,O')tin	22673-19-4 (245-152-0)	% w/w	0.01	0.1	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					013+014+016+022+023+026+029+030+032+038
Dibutylbis(pentane-2,4dionato-O,O')tin	22673-19-4 (245-152-0)	% w/w	0.01	0.1	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					017+018+019+020+021+024+027+031+036+039
Dibutylbis(pentane-2,4dionato-O,O')tin	22673-19-4 (245-152-0)	% w/w	0.01	0.1	ND

25. 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.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					003+004+005+006+007+008+009+010+012
2-methylimidazole	693-98-1	% w/w	0.01	0.1	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					013+014+016+022+023+026+029+030+032+038
2-methylimidazole	693-98-1	% w/w	0.01	0.1	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					017+018+019+020+021+024+027+031+036+039
2-methylimidazole	693-98-1	% w/w	0.01	0.1	ND

-End of Test Report-