

Test Report

No.: 70.431.22.16242.01

Dated: 2022-12-22



Greater China

Applicant: POLYCONCEPT GBS
Address: 4/F., HONGQIAO RONGGUANG BLDG., 11 CHANGSHUN ROAD SHANGHAI, 200051, PR CHINA
Product Name: Vancouver backpack
Model No.: 11942800-Black/11942801-navy/11942802-red
PO/Order No.: #656194
Manufacturer: #11602
Factory Code: #13318
Country of Origin: CHINA
Country of Destination: EU
Receipt Date of Sample: 2022-12-12
Date of Testing: 2022-12-12 to 2022-12-22
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. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
2. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
3. Azocolourants Content Requirement in Annex XVII, Item 43 of the REACH Regulation(EC) No 1907/2006 with its Amendment	Pass
4. Azo Dyes Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
5. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
6. Dimethylformamide, N,N-dimethylacetamide (DMAC), N-Methyl-2-pyrrolidone Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
7. Formaldehyde Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
8. Carcinogenic Disperse Dye	Pass
9. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
10. Phthalates content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
11. Chlorotoluenes content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
12. Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	Pass

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Test Item	Conclusion
13. Benzene Content Requirement in Annex XVII, Item 72 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
14. 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) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
15. N,N-dimethylacetamide (DMAC) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
16. Phthalates Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	Pass
17. 2-methylimidazole Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
18. Dibutylbis(pentane-2,4dionato-O,O')tin Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
19. Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
20. Tris(2-chloroethyl) phosphate (TCEP) Content – in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	Pass
21. Extractable heavy metals content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
22. C,C-Azodi(formamide) Content – in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	Pass
23. Quinoline Content Requirement in Annex XVII, Item 72 of the REACH Regulation(EC) No 1907/2006 with its Amendments	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
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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.

Description of the Tested Subject

Sample	Description	Photo
001	Vancouver backpack	
002	Vancouver backpack	
003	Vancouver backpack	

T. No	Sample	Description
T1	004	Black fabric with backing (body/shoulder strap, 001)
T2	005	Blue fabric with backing (body/shoulder strap, 002)
T3	006	Red fabric with backing (body/shoulder strap, 001/003)
T4	007	Black fabric (handle/on shoulder strap, 001~003)
T5	008	Black fabric (zipper tape, 001~003)
T6	009	Black fabric with red thread (zipper puller,001/003)
T7	010	Black fabric with blue thread (zipper puller,001)
T8	011	Black fabric (lining, 001~003)



T. No	Sample	Description
T9	012	Black non-woven fabric (lining binding, 001~003)
T10	013	Black plastic (zipper teeth, 001~003)
T11	014	Black plastic (buckle, 001~003)
T12	015	White foam (interlay,001~003)
T13	016	Metal with black coating (zipper head/slider,001~003)



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Test Results

1. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					004+005+006
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

2. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to Acid digestion and EN 1122:2001 Method B, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
004+005+006	mg/kg	5.0	<100	<5.0	Pass
007+008	mg/kg	5.0	<100	<5.0	Pass
011+012	mg/kg	5.0	<100	<5.0	Pass
013+014	mg/kg	5.0	<100	<5.0	Pass
015	mg/kg	5.0	<100	<5.0	Pass
016	mg/kg	10.0	<100	<10.0	Pass

3. Azocolourants Content Requirement in Annex XVII, Item 43 of the REACH Regulation(EC) No 1907/2006 with its Amendment

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

No.	Prohibited Amines	CAS No.	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
					004+005+006	007+008
1	4-aminobiphenyl	92-67-1	5.0	<30	<5.0	<5.0
2	Benzidine	92-87-5	5.0	<30	<5.0	<5.0
3	4-chloro-o-toluidine	95-69-2	5.0	<30	<5.0	<5.0
4	2-naphthylamine	91-59-8	5.0	<30	<5.0	<5.0
5	o-aminoazotoluene	97-56-3	5.0	<30	<5.0	<5.0
6	5-nitro-o-toluidine	99-55-8	5.0	<30	<5.0	<5.0
7	4-chloroaniline	106-47-8	5.0	<30	<5.0	<5.0
8	2,4-diaminoanisole	615-05-4	5.0	<30	<5.0	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	5.0	<30	<5.0	<5.0
10	3,3'-dichlorobenzidine	91-94-1	5.0	<30	<5.0	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	5.0	<30	<5.0	<5.0
12	3,3'-dimethylbenzidine	119-93-7	5.0	<30	<5.0	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	5.0	<30	<5.0	<5.0
14	p-cresidine	120-71-8	5.0	<30	<5.0	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	5.0	<30	<5.0	<5.0
16	4,4'-oxydianiline	101-80-4	5.0	<30	<5.0	<5.0
17	4,4'-thiodianiline	139-65-1	5.0	<30	<5.0	<5.0
18	o-toluidine	95-53-4	5.0	<30	<5.0	<5.0
19	2,4-toluenediamine	95-80-7	5.0	<30	<5.0	<5.0
20	2,4,5-trimethylaniline	137-17-7	5.0	<30	<5.0	<5.0
21	2-methoxyaniline	90-04-0	5.0	<30	<5.0	<5.0
22	2,4-xylidine	95-68-1	5.0	<30	<5.0	<5.0
23	2,6-xylidine	87-62-7	5.0	<30	<5.0	<5.0
24	4-aminoazobenzene	60-09-3	5.0	<30	<5.0	<5.0
Conclusion					Pass	Pass

No.	Prohibited Amines	CAS No.	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
					011+012
1	4-aminobiphenyl	92-67-1	5.0	<30	<5.0
2	Benzidine	92-87-5	5.0	<30	<5.0
3	4-chloro-o-toluidine	95-69-2	5.0	<30	<5.0
4	2-naphthylamine	91-59-8	5.0	<30	<5.0
5	o-aminoazotoluene	97-56-3	5.0	<30	<5.0
6	5-nitro-o-toluidine	99-55-8	5.0	<30	<5.0
7	4-chloroaniline	106-47-8	5.0	<30	<5.0
8	2,4-diaminoanisole	615-05-4	5.0	<30	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	5.0	<30	<5.0
10	3,3'-dichlorobenzidine	91-94-1	5.0	<30	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	5.0	<30	<5.0
12	3,3'-dimethylbenzidine	119-93-7	5.0	<30	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	5.0	<30	<5.0
14	p-cresidine	120-71-8	5.0	<30	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	5.0	<30	<5.0
16	4,4'-oxydianiline	101-80-4	5.0	<30	<5.0
17	4,4'-thiodianiline	139-65-1	5.0	<30	<5.0
18	o-toluidine	95-53-4	5.0	<30	<5.0
19	2,4-toluenediamine	95-80-7	5.0	<30	<5.0
20	2,4,5-trimethylaniline	137-17-7	5.0	<30	<5.0
21	2-methoxyaniline	90-04-0	5.0	<30	<5.0
22	2,4-xylidine	95-68-1	5.0	<30	<5.0
23	2,6-xylidine	87-62-7	5.0	<30	<5.0
24	4-aminoazobenzene	60-09-3	5.0	<30	<5.0
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)

4. **Azo Dyes Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments**

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

Prohibited Amines	CAS No.	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
				004+005+006	007+008
4-Chloro-o-toluidinium chloride	3165-93-3	5.0	<30	<5.0	<5.0
2-Naphthylammoniumacetate	553-00-4	5.0	<30	<5.0	<5.0
4-Methoxy-m-phenylene diammonium sulphate	39156-41-7	5.0	<30	<5.0	<5.0
2,4,5-Trimethylaniline hydrochloride	21436-97-5	5.0	<30	<5.0	<5.0
Conclusion				Pass	Pass

Prohibited Amines	CAS No.	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
				011+012
4-Chloro-o-toluidinium chloride	3165-93-3	5.0	<30	<5.0
2-Naphthylammoniumacetate	553-00-4	5.0	<30	<5.0
4-Methoxy-m-phenylene diammonium sulphate	39156-41-7	5.0	<30	<5.0
2,4,5-Trimethylaniline hydrochloride	21436-97-5	5.0	<30	<5.0
Conclusion				Pass

5. **Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments**

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

Sample	Unit	MDL	Limit	Result(s)	Conclusion
004+005+006	mg/kg	10.0	500	<10.0	Pass
007+008	mg/kg	10.0	500	<10.0	Pass
009+010	mg/kg	10.0	500	<10.0	Pass
011+012	mg/kg	10.0	500	<10.0	Pass
013+014	mg/kg	10.0	500	<10.0	Pass
016	mg/kg	10.0	500	26.2	Pass

6. **Dimethylformamide, N,N-dimethylacetamide (DMAC), N-Methyl-2-pyrrolidone Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments**

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

Compound	CAS No.	Unit	MDL	Limit	Result
					004+005+006
Dimethylformamide	68-12-2	mg/kg	10	<3000	<10
N,N-dimethylacetamide (DMAC)	127-19-5	mg/kg	10	<3000	<10
N-Methyl-2-pyrrolidone	--	mg/kg	10	<3000	<10
Conclusion					Pass

7. Formaldehyde Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

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

Sample	Unit	MDL	Limit	Result(s)	Conclusion
004	mg/kg	16	<75	37	Pass
005	mg/kg	16	<75	39	Pass
006	mg/kg	16	<75	21	Pass

8. Carcinogenic Disperse Dye

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

Compounds	CAS No	Unit	MDL	Limit	Results
					004+005+006
C.I. Basic Red 9	569-61-9	mg/kg	7.5	<50	<7.5
C.I. Disperse Blue 1	2475-45-8	mg/kg	7.5	<50	<7.5
Basic Violet 3	548-62-9	mg/kg	7.5	<50	<7.5
Conclusion					Pass

Remark: 1. Limit was according to client's requirement

9. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					004+005+006
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

10. Phthalates content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					004+005+006
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
Bis-(2-methoxyethyl)-phthalate (DMEP)	117-82-8	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
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	mg/kg	50	-	ND
Di-n-hexyl phthalate (DnHP/DHP/DHEXP)	84-75-3	mg/kg	50	-	ND
1,2-Benzenedicarboxylic acid, dipentylester branched and linear	84777-06-0	mg/kg	50	-	ND
Diisopentylphthalate (DIPP)	605-50-5	mg/kg	50	-	ND
N-Pentyl-isopentylphthalate	776297-69-9	mg/kg	50	-	ND
Diamyl phthalate/Dipentyl phthalate (DPP/DPENP)	131-18-0	mg/kg	50	-	ND
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	68515-50-4	mg/kg	50	-	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	mg/kg	50	-	ND
Sum of detected phthalates	-	mg/kg	50	<1000	ND
Conclusion					Pass

11. Chlorotoluenes content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

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

Compound	CAS No.	Unit	MDL	Limit	Result
					004+005+006
p-Chlorobenzotrighloride	5216-25-1	ppm	0.1	<1	<0.1
Benzotrighloride	98-07-7	ppm	0.1	<1	<0.1
BenzylChloride	100-44-7	ppm	0.1	<1	<0.1
Conclusion					Pass

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

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					004+005+006
SCCP	85535-84-8	mg/kg	100	<1500	<100
Conclusion					Pass

13. Benzene Content Requirement in Annex XVII, Item 72 of the REACH Regulation(EC) No 1907/2006 with its Amendments

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

Compound	CAS No.	Unit	MDL	Limit	Result
					004+005+006
Benzene	71-43-2	mg/kg	1	5	<1
Conclusion					Pass

14. 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) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

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

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					004+005+006+007+008+011+012+013+014+015
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	%	0.01	<0.1	<0.01
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	%	0.01	<0.1	<0.01
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	%	0.01	<0.1	<0.01
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	%	0.01	<0.1	<0.01

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

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

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					004+005+006+007+008+011+012+013+014+015
N,N-dimethylacetamide (DMAC)	127-19-5	%	0.01	<0.1	<0.01

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

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

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					004+005+006
Benzylbutylphthalate (BBP)	85-68-7	%	0.01	<0.1	<0.01
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.01	<0.1	<0.01
Dibutylphthalate (DBP)	84-74-2	%	0.01	<0.1	<0.01
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.01	<0.1	<0.01
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	<0.1	<0.01
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	<0.1	<0.01
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	<0.1	<0.01
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	<0.1	<0.01
Diisopentylphthalate (DIPP)	605-50-5	%	0.01	<0.1	<0.01
N-pentyl-isopentylphthalate	776297-69-9	%	0.01	<0.1	<0.01
Dipentyl phthalate (DPP)	131-18-0	%	0.01	<0.1	<0.01
Di-n-hexyl phthalate (DnHP/DHP/DHEXP)	84-75-3	%	0.01	<0.1	<0.01
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	<0.1	<0.01
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	<0.01
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.01	<0.1	<0.01
Diisohexyl phthalate (DIHxP)	71850-09-4	%	0.01	<0.1	<0.01
Conclusion					Pass

17. 2-methylimidazole Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

Test with reference to in house method

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					004+005+006+007+008+011+012+013+014+015
2-methylimidazole	693-98-1	%	0.01	<0.1	<0.01

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

Test with reference to in house method

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					004+005+006+007+008+011+012+013+014+015
Dibutylbis(pentane-2,4dionato-O,O')tin	22673-19-4	%	0.01	<0.1	<0.01

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

Test with reference to in house method

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					004+005+006+007+008+011+012+013+014+015
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	--	%	0.01	<0.1	<0.01

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

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

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					004+005+006
Tris (2-chloroethyl) phosphate	115-96-8	%	0.01	<0.1	<0.01
Conclusion					Pass

21. Extractable heavy metals content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

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

Test Item	Limit [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]	
			004+005	006
Cadmium As (Cd)	1	0.1	<0.1	<0.1
Arsenic As (As)	1	0.2	<0.2	<0.2
Chromium VI (Cr VI)*	1	0.5	<0.5	<0.5
Lead As (Pb)	1	0.2	<0.2	<0.2
Conclusion			Pass	Pass

Remark: 1. * = Chromium VI was determined by screening of chromium

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

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

Compound	Unit	MDL	Limit	Result(s)
				015
C,C'-azodi(formamide)	mg/kg	100	<1000	<100
Conclusion				Pass

23. Quinoline Content Requirement in Annex XVII, Item 72 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to DIN 54231:2005, determination by LC-MS.

Compound	CAS No.	Unit	MDL	Limit	Result
					004+005+006
Quinoline	91-22-5	mg/kg	10	<50	<10
Conclusion					Pass

- End of Test Report -

