

UL ORDER NO: 12039199

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Applicant: PACKIT, LLC Test Date: Nov.09,2017 - Jan.11,2018

Address: 875 S. WESTLAKE BLVD., # 112, WESTLAKE **Received Date:** Nov 09, 2017

VILLAGE, CA, 91361, USA

Second **Contact Person:** DIANE KIM Dec.27, 2017 Submission:

Sample Description: Packit Freezable Bags EU

SKU Number:

Test Item	Test Result
Heavy Metals in Packaging (Lead/Cadmium/Chromium VI/Mercury) [94/62/EC]	PASS
Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEOs) [REACH Annex XVII Entry 46 & Client's Specification]	PASS
PAHs (Polycyclic Aromatic Hydrocarbons) Content [REACH Annex XVII Entry 50]	PASS
Organotin Compound ACCORDING TO REACH Annex XVII Entry 20	PASS
Short Chain Chlorinated Paraffin (SCCPs) [Regulation (EU) No 850/2004]	PASS
Detection of the Use of Banned Azo Colourants	PASS
Total Cadmium Content [REACH Annex XVII]	PASS
Total Lead Content [REACH Annex XVII (Metal Jewellery)]	PASS
Nickel Release for Coated Items [EN 12472:2005+A1:2009 & EN 1811:2011+A1:2015]	PASS
Total Mercury Content according to REACH ANNEX XVII NO.62	PASS
One Hundred Seventy-Four (174) Substances Of Very High Concern (SVHC) Screening Based On The SVHC Candidate List Published By European Chemicals Agency (ECHA), Regarding Regulation (EC) No 1907/2006 Concerning Reach & Client's Specification.	PASS
Overall Migration Test for Food Contact Plastics [EU No 10/2011 with Amendments]	PASS
Specific Migration of Heavy Metals for Food Contact Plastics [EU No 10/2011 with Amendments]	PASS
Sensory Examination Test for finished product [LFGB]	PASS
Remark:	
The results relate only to the samples tested.	

For and on behalf of

UL VS Shanghai Limited

Sherry Xue - Technical Manager

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Sample Information:

Sample	Product	Applicant's equivalent code / Color
001	BLACK PLASTIC - BUCKLE	
002	BLACK PLASTIC - PARTING SLIP	
003	BLACK SOFT PLASTIC - HANDLE	
004	BRIGHT BLACK PLASTIC - ZIPPER TEETH	
005	BLACK PLASTIC - ZIPPER TEETH	
006	BRIGHT GREY PLASTIC - ZIPPER TEETH	
007	BRIGHT DEEP GREY PLASTIC - ZIPPER TEETH	
800	GREY PLASTIC - ZIPPER TEETH	
009	DARK GREY PLASTIC - ZIPPER TEETH	
010	PINK PLASTIC - VELCRO	
011	BLACK PLASTIC - VELCRO	
012	DARK GREY PLASTIC - VELCRO	
013	BLACK FABRIC ZIPPER TAPE - THIN	
014	BLACK FABRIC ZIPPER TAPE - THICK	
015	GREY FABRIC ZIPPER TAPE	
016	DEEP GREY FABRIC ZIPPER TAPE	
017	LIGHT GREY FABRIC ZIPPER TAPE	
018	DARK GREY FABRIC ZIPPER TAPE	
019	PINK FABRIC - VELCRO	
020	BLACK FABRIC - VELCRO	
021	DARK GREY FABRIC - VELCRO	
022	BLACK ROPE	
023	GREY ROPE	
024	BLACK FABRIC TAPE - LARGE	
025	BLACK FABRIC TAPE - MIDDLE	
026	BLACK FABRIC TAPE - SMALL	
027	GREY FABRIC TAPE - LARGE	
028	GREY FABRIC TAPE - MIDDLE	
029	GREY FABRIC TAPE - SMALL	
030	DEEP GREY FABRIC TAPE	
031	DARK GREY FABRIC TAPE - LARGE	
032	DARK GREY FABRIC TAPE - MIDDLE	

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Page: 3 of 45 033 DARK GREY FABRIC TAPE - SMALL 034 PINK FABRIC TAPE **BLACK FABRIC** 035 036 PINK FABRIC DARK BLUE FABRIC 037 038 **ROYAL BLUE FABRIC** 039 DARK GREY FABRIC 040 LIGHT GREEN /CYAN/GREY STRIPE FABRIC 041 WHITE FABRIC WITH MULTICOLOR SMALL TRIANGLE PATTERN **BLACK/WHITE STRIPE FABRIC** 042 043 MULTICOLOR LARGE TRIANGLE PATTERN FABRIC 044 BLUE FABRIC WITH MULTICOLOR DOT 045 DEEP BLUE FABRIC WITH WHITE/BLACK/GREY STRIPE 046 BLACK/BLUE PLAID FABRIC 047 LIGHT GREEN FABRIC WITH MULTICOLOR DOT AND CHERRIES 048 MULTICOLOR STRIPE FABRIC 049 MULTICOLOR LINE PATTERN FABRIC WHITE INNER PLASTIC LINING 050 051 BLACK METAL - ZIPPER PULLER - LARGE BLACK METAL - ZIPPER SLIDER - LARGE 052 053 BLACK METAL - ZIPPER PULLER - SMALL 054 BLACK METAL - ZIPPER SLIDER - SMALL 055 BLACK/WHITE FABRIC - LABELING 056 WHITE FABRIC WITH BLACK PRINT - LABELING 057 BROWN PAPER BOARD WITH MULTICOLOR PRINT - PACKAGE 058 MULTICOLOR STICKER - PACKAGE WHITE PAPER CARD WITH MULTICOLOR PRINT - PACKAGE 059 BROWN CORRUGATED PAPER WITH MULTICOLOR PRINT - TRAY -060 **PACKAGE**

061

PACKIT FREEZABLE BAGS EU

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1. Heavy Metals in Packaging (Lead/Cadmium/Chromium VI/Mercury) [94/62/EC]

Wet digestion method was used and total Heavy Metals (Lead/Cadmium/Chromium VI/Mercury) content were determined by ICP-OES or AAS.

Sample	TOTAL CADMIUM	HEXAVALENT CHROMIUM	TOTAL LEAD	TOTAL MERCURY	Pb + Cd + Hg + Cr(VI)	
057	<2.0	<2.0	9.9	<2.0	<11.0	PASS
058	<2.0	<2.0	<5.0	<2.0	<11.0	PASS
059	<2.0	<2.0	<5.0	<2.0	<11.0	PASS
060	<2.0	<2.0	7.4	<2.0	<11.0	PASS
Requirement (mg/kg)					Max. 100	

All concentrations expressed in milligrams per kilogram

[&]quot;<" means less than



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Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEOs) [REACH Annex XVII Entry 46 & Client's 2. Specification]

Extraction With Solvent, Quantification By LC-MS-MS (Method Detection Limit: 10 mg/kg)

Sample	Result	(mg/kg)	Total Result (NP +NPEOs) (mg/kg)	Client Requirement (mg/kg)		
013+014+015	NP	<10.0	<10.0	Max. 1000	PASS	
013+014+013	NPEO	<10.0		IVIAX. 1000	PASS	
016+017+018	NP	<10.0	<10.0	Max. 1000	PASS	
010+017+018	NPEO	<10.0	<10.0	IVIAX. 1000	FASS	
019+020+021	NP <10.0	26.0	Max. 1000	PASS		
019+020+021	NPEO	26.0	20.0	IVIAX. 1000	PASS	
022+023	NP	<10.0	<10.0	Max. 1000	PASS	
022+023	NPEO	<10.0	<10.0	IVIAX. 1000	1 700	
024+025+026	NP	<10.0	<10.0	Max. 1000	PASS	
024+023+020	NPEO	<10.0			FASS	
027+028+029	NP	<10.0	<10.0	Max. 1000	PASS	
027+020+029	NPEO	<10.0	<10.0	IVIAX. 1000	PASS	
02010241022	NP	<10.0	<10.0	Max. 1000	PASS	
030+031+032	NPEO	<10.0	~10.0	IVIAX. TUUU	PASS	
033+034+035	NP	<10.0	~10 O	Mov. 1000	DASS	
	NPEO	<10.0	<10.0	Max. 1000	PASS	
*Requirement is not applicable fo	r composite samples					

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Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEOs) [REACH Annex XVII Entry 46 & Client's Specification]

Extraction With Solvent, Quantification By LC-MS-MS (Method Detection Limit: 10 mg/kg)

Sample	Result	(mg/kg)	Total Result (NP +NPEOs) (mg/kg)	Client Requirement (mg/kg)	
036+037+038	NP	<10.0		Max. 1000	PASS
030+037+036	NPEO	<10.0	<10.0	IVIAX. 1000	PASS
039+040+041	NP	<10.0	-10.0	Max. 1000	PASS
039+040+041	NPEO	<10.0	<10.0		PASS
042+043+044	NP	<10.0	<10.0	Max. 1000	PASS
042+043+044	NPEO	<10.0			PASS
045+046+047	NP	<10.0	<10.0	Max. 1000	DASS
043+040+047	NPEO	<10.0	<10.0	Max. 1000	PASS
048+049	NP	<10.0	~10.0	14 4000	PASS
	NPEO	<10.0	<10.0	Max. 1000	PASS
*Requirement is not applicable fo	r composite samples	3			



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PAHs (Polycyclic Aromatic Hydrocarbons) Content [REACH Annex XVII Entry 50] 3.

AfPS GS 2014:01 PAK (Detection Limit: 0.1 mg/kg)

Compounds	Result i	n mg/kg	Limit In mg/kg (Max.)	
Compounds	Sample 001+002+003	Sample 004+005+006	Limit in mg/kg (Max.)	
Benzo (a) anthracene	Not Detected	Not Detected		
Chrysene	Not Detected	Not Detected		
Benzo (b) fluoranthene	Not Detected	Not Detected		
Benzo (j) fluoranthene	Not Detected	Not Detected	Each <1.0mg/kg	PASS
Benzo (k) fluoranthene	Not Detected	Not Detected		PASS
Benzo (a) pyrene	Not Detected	Not Detected		
Benzo (e) pyrene	Not Detected	Not Detected		
Dibenzo (a,h) anthracene	Not Detected	Not Detected		

Compounds	Result i	n mg/kg	Limit In mg/kg (Max.)	
Compounds	Sample 007+008+009	Sample 010+011+012	Limit in mg/kg (Max.)	
Benzo (a) anthracene	Not Detected	Not Detected		
Chrysene	Not Detected	Not Detected		
Benzo (b) fluoranthene	Not Detected	Not Detected		
Benzo (j) fluoranthene	Not Detected	Not Detected	Each <1.0mg/kg	PASS
Benzo (k) fluoranthene	Not Detected	Not Detected		PASS
Benzo (a) pyrene	Not Detected	Not Detected		
Benzo (e) pyrene	Not Detected	Not Detected		
Dibenzo (a,h) anthracene	Not Detected	Not Detected		

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PAHs (Polycyclic Aromatic Hydrocarbons) Content [REACH Annex XVII Entry 50]

AfPS GS 2014:01 PAK (Detection Limit: 0.1 mg/kg)

Compounds	Result i	in mg/kg	Limit In mg/kg (Max.)	
Compounds	Sample 050	Sample 056	Lillit III IIIg/kg (Max.)	
Benzo (a) anthracene	Not Detected	Not Detected		
Chrysene	Not Detected	Not Detected		
Benzo (b) fluoranthene	Not Detected	Not Detected		
Benzo (j) fluoranthene	Not Detected	Not Detected	Each <1.0mg/kg	PASS
Benzo (k) fluoranthene	Not Detected	Not Detected		PASS
Benzo (a) pyrene	Not Detected	Not Detected		
Benzo (e) pyrene	Not Detected	Not Detected		
Dibenzo (a,h) anthracene	Not Detected	Not Detected		



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Organotin Compound According To Reach Annex XVII Entry 20 4.

With Reference To ISO 17353: 2004. (Detection Limit= 0.01%)

Organotin	Sample	Sample	Sample	Client's Requirement
Compounds	001+002+003	004+005+006	007+008+009	(express as Tin)
	(express as Tin)	(express as Tin)	(express as Tin)	
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Dioctyltin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted				
organostannic	ND	ND	ND	4 0 40/ Tin/Cn)
compounds(such				< 0.1% Tin(Sn)
as TBT,TPHT)				

Organotin	Sample	Sample	Sample	Client's Requirement
Compounds	010+011+012	013+014+015	016+017+018	(express as Tin)
	(express as Tin)	(express as Tin)	(express as Tin)	
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Dioctyltin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic	ND	ND	ND	< 0.19/ Tin/Sn)
compounds(such as TBT,TPHT)				< 0.1% Tin(Sn)

Organotin	Sample	Sample	Sample	Client's Requirement
Compounds	019+020+021	022+023	024+025+026	(express as Tin)
	(express as Tin)	(express as Tin)	(express as Tin)	
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Dioctyltin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

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Organotin Compound According To Reach Annex XVII Entry 20

With Reference To ISO 17353: 2004. (Detection Limit= 0.01%)

Organotin	Sample	Sample	Sample	Client's Requirement
Compounds	027+028+029	030+031+032	033+034+035	(express as Tin)
	(express as Tin)	(express as Tin)	(express as Tin)	
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Dioctyltin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted				
organostannic	ND	ND	ND	< 0.1% Tin(Sn)
compounds(such				(0.170 Till(Oll)
as TBT,TPHT)				

Organotin	Sample	Sample	Sample	Client's Requirement
Compounds	036+037+038	039+040+041	042+043+044	(express as Tin)
	(express as Tin)	(express as Tin)	(express as Tin)	
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Dioctyltin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

Organotin	Sample	Sample	Sample	Client's Requirement
Compounds	045+046+047	048+049	050	(express as Tin)
	(express as Tin)	(express as Tin)	(express as Tin)	
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Dioctyltin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

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Organotin Compound According To Reach Annex XVII Entry 20

With Reference To ISO 17353: 2004. (Detection Limit= 0.01%)

Organotin Compounds	Sample 055	Sample 056	Client's Requirement (express as Tin)
	(express as Tin)	(express as Tin)	
Dibutyltin (DBT)	ND	ND	< 0.1% Tin(Sn)
Dioctyltin (DOT)	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	< 0.1% Tin(Sn)

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Short Chain Chlorinated Paraffin (SCCPs) [Regulation (EU) No 850/2004] 5.

Extraction With Organic Solvent. Quantification with GC-ECD and confirmation by UPLC-MSMS (Method detected limit: 100mg/kg)

Sample	Result(mg/kg)	Client Requirement(mg/kg)	Conclusion	
001+002+003	<100	Max. 1000	PASS	
004+005+006	<100	Max. 1000	PASS	
007+008+009	<100	Max. 1000	PASS	
010+011+012	<100	Max. 1000	PASS	
013+014+015	<100	Max. 1000	PASS	
016+017+018	<100	Max. 1000	PASS	
019+020+021	<100	Max. 1000	PASS	
022+023	<100	Max. 1000	PASS	
024+025+026	<100	Max. 1000	PASS	
027+028+029	<100	Max. 1000	PASS	
030+031+032	<100	Max. 1000	PASS	
033+034+035	<100	Max. 1000	PASS	
036+037+038	<100	Max. 1000	PASS	
039+040+041	<100	Max. 1000	PASS	
042+043+044	<100	Max. 1000	PASS	
045+046+047	<100	Max. 1000	PASS	
048+049	<100	Max. 1000	PASS	
050	<100	Max. 1000	PASS	
055	<100	Max. 1000	PASS	
056	<100	Max. 1000	PASS	
1	"<" means less than ;">" means greater than	ı; "mg/kg" means milligrams per kilogram		

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Detection of the Use of Banned Azo Colourants 6.

Banned azo colourants per German and European Law (Regulation (EC) No. 1907/2006 on REACH Annex XVII item no. 43 and appendix 8 as amended by commission regulation (EC) no. 552/2009) are such colourants that may form one of the following amines by splitting up one or more azo groups.

Test method according to the official test procedures EN 14362-1:2017 for textile, EN ISO 17234-1:2015 for leather materials. The presence of 4-aminoazobenzene is determined by EN 14362-3:2017 for textile, EN ISO 17234-2:2011 for leather materials. Removal of fat by n-hexane (in case of leather), treatment with citric buffer, reductive cleavage with sodium dithionite, extraction with ether, detection by GC/MS and/or HPLC/DAD. (Detection limit: 5 mg/kg)

3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No. 838-88-0) BENZIDINE (CAS No. 92-87-5)

4-AMINODIPHENYL (CAS No. 92-67-1) P-CRESIDINE (CAS No. 120-71-8)

4-CHLORO-O-TOLUIDINE (CAS No. 95-69-2) 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No. 101-14-4)

2-NAPHTHYLAMINE (CAS No. 91-59-8) 4,4'-OXYDIANILINE (CAS No. 101-80-4) O-AMINOAZOTOLUENE (CAS No. 97-56-3) 4,4'-THIODIANILINE (CAS No. 139-65-1) 2-AMINO-4-NITROTOLUENE (CAS No. 99-55-8) O-TOLUIDINE (CAS No. 95-53-4)

P-CHLOROANILINE (CAS No. 106-47-8) 2,4,5-TRIMETHYLANILINE (CAS No. 137-17-7) 2,4'-DIAMINOANISOLE (CAS No. 615-05-4) 2,4-TOLUYLENEDIAMINE (CAS No. 95-80-7)

4,4'-DIAMINODIPHENYLMETHANE (CAS No. 101-77-9) O-ANISIDINE (CAS No. 90-04-0)

3,3'-DICHLOROBENZIDINE (CAS No. 91-94-1) 4-AMINOAZOBENZENE (CAS No. 60-09-3) 3,3'-DIMETHOXYBENZIDINE (CAS No. 119-90-4) 3,3'-DIMETHYLBENZIDINE (CAS No. 119-93-7)

Sample Test Method		Result (Amine Detected)	Comments		
013+014+015	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS		
013+014+015	EN 14362-1:2017 (With Extraction)	Not Detected	PASS		
016+017+018	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS		
016+017+018	EN 14362-1:2017 (With Extraction)	Not Detected	PASS		
019+020+021	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS		
019+020+021	EN 14362-1:2017 (With Extraction)	Not Detected	PASS		
022+023	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS		
022+023	EN 14362-1:2017 (With Extraction)	Not Detected	PASS		
024+025+026	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS		
024+025+026	EN 14362-1:2017 (With Extraction)	Not Detected	PASS		
027+028+029	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS		

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007.000.000	EN 14362-1:2017	N. D. J. J.	DA00
027+028+029	(With Extraction)	Not Detected	PASS
030+031+032	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
030+031+032	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
033+034+035	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
033+034+035	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
036+037+038	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
036+037+038	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
039+040+041	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
039+040+041	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
042+043+044	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
042+043+044	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
045+046+047	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
045+046+047	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
048+049	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
048+049	EN 14362-1:2017 (With Extraction)	Not Detected	PASS

Note: Limit = 30 mg/kg (Not Applicable for combine test)

Test Conclusions:

(1) The submitted samples (013+014+015), (016+017+018), (019+020+021), (022+023), (024+025+026), (027+028+029), (030+031+032), (033+034+035), (036+037+038), (039+040+041), (042+043+044), (045+046+047) and (048+049) did not contain the 22 forbidden amines according to Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 43 and Appendix 8 as amended by Commission Regulation (EC) No. 522/2009 and Commission Regulation (EU) No.126/2013.

Interpretation of test results:

- In the case of levels per amine component<= 30 mg/kg: not detected. According to the analysis as carried out, azo colourants banned under the Ordinance on Commodities were not detected in the articles submitted.
- In the case of levels per amine component > 30 mg/kg. The analysis result suggests that the article submitted has been manufactured or treated by using azo colourants banned under the Ordinance on Commodities.
- In case of a result between 25 and 35 mg/kg. We remark that due to the error range of the method, these measurement values represent a border line case

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7. **Total Cadmium Content [REACH Annex XVII]**

With reference to EN 1122:2001 (Method B)/ Wet digestion method was used and total Cadmium content was determined by ICP-OES or AAS.

Detection Limit: 7.5mg/kg

Sample	Result(mg/kg)	Requirement(mg/kg)	
001+002+003	<7.5	Max.100	PASS
004+005+006	<7.5	Max.100	PASS
007+008+009	<7.5	Max.100	PASS
010+011+012	<7.5	Max.100	PASS
050	<7.5	Max.100	PASS
051	<7.5	Max.100	PASS
052	<7.5	Max.100	PASS
053	<7.5	Max.100	PASS
054	<7.5	Max.100	PASS
056	<7.5	Max.100	PASS
"<" means less than ; ">" means greater t	han ; "mg/kg" means milligrams	per kilogram	



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8. Total Lead Content [REACH Annex XVII (Metal Jewellery)]

Test Method: CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates)

Detection Limit: 20mg/kg

<u>Sample</u>	Result(mg/kg)	Client Requirement(mg/kg)	
001+002+003	<20.0	Max.100	PASS
004+005+006	<20.0	Max.100	PASS
007+008+009	<20.0	Max.100	PASS
010+011+012	<20.0	Max.100	PASS
050	<20.0	Max.100	PASS
051	22.7	Max.100	PASS
052	20.8	Max.100	PASS
053	<20.0	Max.100	PASS
054	20.9	Max.100	PASS
056	<20.0	Max.100	PASS
"<	" means less than ; ">" means greater	than ; "mg/kg" means milligrams per kilogram	

9. Nickel Release for Coated Items [EN 12472:2005+A1:2009 & EN 1811:2011+A1:2015]

Detection Limit: 0.04µg/cm²/week

Sample	Vol. of Test Solution Tested Sample		Nickel Release (μg/cm²/week)			Requirement	
<u>Jample</u>	used (ml)	Area (cm²)	Trial 1	Trial 2	Trial 3	(μg/cm²/week)	
051	16.2	16.20	<0.04	<0.04	<0.04	<0.50	PASS
052	16.7	16.70	<0.04	<0.04	<0.04	<0.50	PASS
053	14.0	14.00	<0.04	<0.04	<0.04	<0.50	PASS
054	14.0	14.00	<0.04	<0.04	<0.04	<0.50	PASS

以下条款仅针对中国市场和社会:

--该报告仅向委托人公布、供委托人使用,不具有社会证明的作用。



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10. **Total Mercury Content according to REACH ANNEX XVII NO.62**

Wet digestion method was used and total Mercury content was determined by ICP-OES.

Detection Limit: 10 mg/kg

Sample	Result(mg/kg)	Requirement(mg/kg)				
001+002+003	<10.0	Max. 100	PASS			
004+005+006	<10.0	Max. 100	PASS			
007+008+009	<10.0	Max. 100	PASS			
010+011+012	<10.0	Max. 100	PASS			
050	<10.0	Max. 100	PASS			
"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram						



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> > 0.01

0.01

One Hundred Seventy-Four (174) Substances Of Very High Concern (SVHC) Screening Based On The SVHC Candidate List Published By European Chemicals Agency (ECHA), Regarding Regulation (EC) No 1907/2006 Concerning Reach & Client's Specification.

In-House Method Acid Digestion And Analyzed By ICP-AES And Solvent Extraction And Analyzed By GC/MS,GC/ECD And LC-MS-MS.

No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
1	4,4'-Diaminodiphenylmethane	101-77-9	ND	0.01	Carcinogen category 2
2	5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	ND	0.01	vPvB
3	Alkanes, C10-13 chloro (short chain chlorinated paraffins, SCCP)	85535-84-8	ND	0.01	PBT
4	Anthracene	120-12-7	ND	0.01	PBT
5	Diarsenic pentaoxide*1	1303-28-2	ND	0.01	Carcinogen category
6	Diarsenic trioxide*1	1327-53-3	ND	0.01	Carcinogen category
7	Bis(2-ethylhexyl)phthalate(DEHP)	117-81-7	ND	0.01	Toxic to reproduction category 2
8	Bis(tributyltin)oxide (TBTO)*3	56-35-9	ND	0.01	PBT
9	Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	Toxic to reproduction category 2
10	Cobalt dichloride*1	7646-79-9	ND	0.01	Carcinogenic and toxic for reproduction
11	Dibutyl phthalate (DBP)	84-74-2	ND	0.01	Toxic to reproduction category 2
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD, γ-HBCDD)	25637-99-4; 3194-556 (134237-51-7 134237-50-6, 134237-52-8)	ND	0.01	РВТ
					Carcinogen category

13

14

Lead hydrogen arsenate*1

Sodium dichromate*1

responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL's random inspection or testing or audit. The liability of UL to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, refer to the UL VS Terms and Conditions

ND

ND

7784-40-9

7789-12-0

10588-01-9

1;toxic to reproduction category 1

Carcinogen category

2;mutagen category

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
					2;toxic to reproduction category 2
15	Triethyl arsenate*1	15606-95-8	ND	0.01	Carcinogen category 1
16	Anthracene oil*2	90640-80-5	ND	0.01	PBT, vPvB, Carcinogen category 2
17	Anthracene oil, anthracene paste, distn. Lights*2	91995-17-4	ND	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
18	Anthracene oil, anthracene paste, anthracene fraction* ²	91995-15-2	ND	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
19	Anthracene oil, anthracene-low*2	90640-82-7	ND	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
20	Anthracene oil, anthracene paste*2	90640-81-6	ND	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
21	Pitch, coal tar, high temp.*2	65996-93-2	ND	0.01	PBT, vPvB, Carcinogen category 2
22	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	ND	0.01	Toxic to reproduction category 2
23	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	ND	0.01	Carcinogen category 2
24	Diisobutyl phthalate (DIBP)	84-69-5	ND	0.01	Toxic to reproduction category 2
25	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*1	12656-85-8	ND	0.01	Carcinogen category 2; toxic to reproduction category 1
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*1	1344-37-2	ND	0.01	Carcinogen category 2; toxic to reproduction category 1
27	Lead chromate*1	7758-97-6	ND	0.01	Carcinogen category 2; toxic to reproduction category 1
28	Acrylamide	79-06-1	ND	0.01	Carcinogen category 2, mutagen category 2

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification	
29	Trichloroethylene	79-01-6	ND	0.01	Carcinogen category 2	
30	Boric acid*1	10043-35-3 11113-50-1	ND	0.01	Toxic to reproduction category 2	
31	Disodium tetraborate, anhydrous*1	1303-96-4 1330-43-4 12179-04-3	ND	0.01	Toxic to reproduction category 2	
32	Tetraboron disodium heptaoxide, hydrate*1	12267-73-1	ND	0.01	Toxic to reproduction category 2	
33	Sodium chromate* ¹	7775-11-3	ND	0.01	Carcinogen category 2, Mutagen category 2, Toxic to reproduction category 2	
34	Potassium chromate*1	7789-00-6	ND	0.01	Carcinogen category 2, Mutagen category 2	
35	Ammonium dichromate* ¹	7789-09-5	ND	0.01	Carcinogen category 2, Mutagen category 2, Toxic to reproduction category 2	
36	Potassium dichromate* ¹	7778-50-9	ND	0.01	Carcinogen category 2, Mutagen category 2, Toxic to reproduction category 2	
37	Cobalt(II) sulphate*1	10124-43-3	ND	0.01	Carcinogenic, and toxic to reproduction	
38	Cobalt(II) dinitrate*1	10141-05-6	ND	0.01	Carcinogenic, and toxic to reproduction	
39	Cobalt (II) carbonate*1	513-79-1	ND	0.01	Carcinogenic, and toxic to reproduction	
40	Cobalt(II) diacetate*1	71-48-7	ND	0.01	Carcinogenic, and toxic to reproduction	
41	2-Methoxyethanol	109-86-4	ND	0.01	Toxic to reproduction	
42	2-Ethoxyethanol	110-80-5	ND	0.01	Toxic to reproduction	
43	Chromium trioxide*1	1333-82-0	ND	0.01	Carcinogenic and mutagenic	
44	Acids generated from chromium	7738-94-5	ND	0.01	Carcinogenic	

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	trioxide and their oligomers *1 Group containing: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	 13530-68-2			
45	2-ethoxyethyl acetate	111-15-9	ND	0.01	Toxic for reproduction
46	Strontium chromate*1	7789-06-2	ND	0.01	Carcinogenic
47	1,2-Benzenedicarboxylic acid, di-C7- 11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	0.01	Toxic for reproduction
48	Hydrazine	302-01-2 7803-57-8	ND	0.01	Carcinogenic
49	1-methyl-2-pyrrolidone	872-50-4	ND	0.01	Toxic for reproduction
50	1,2,3-trichloropropane	96-18-4	ND	0.01	Carcinogenic and toxic for reproduction
51	1,2-Benzenedicarboxylic acid, di-C6- 8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	0.01	Toxic for reproduction
52	Dichromium tris(chromate) *1	24613-89-6	ND	0.01	Carcinogenic
53	Potassium hydroxyoctaoxodizincatedi – chromate* ¹	11103-86-9	ND	0.01	Carcinogenic
54	Pentazinc chromate octahydroxide*1	49663-84-5	ND	0.01	Carcinogenic
55	Aluminosilicate Refractory Ceramic Fibres (RCF) *1	-	ND	0.01	Carcinogenic
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (ZR-RCF) *1	-	ND	0.01	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND	0.01	Carcinogenic
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	0.01	Toxic for reproduction
59	2-Methoxyaniline;o-Anisidine	90-04-0	ND	0.01	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	ND	0.01	Equivalent level of concern having probable serious effects to the environment
61	1,2-Dichloroethane	107-06-2	ND	0.01	Carcinogenic

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification	
62	Bis(2-methoxyethyl) ether	111-96-6	ND	0.01	Toxic for reproduction	
63	Arsenic acid*1	7778-39-4	ND	0.01	Carcinogenic	
64	Calcium arsenate*1	7778-44-1	ND	0.01	Carcinogenic	
65	Trilead diarsenate*1	3687-31-8	ND	0.01	Carcinogenic and toxic for reproduction	
66	N,N-dimethylacetamide (DMAC)	127-19-5	ND	0.01	Toxic for reproduction	
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND	0.01	Carcinogenic	
68	Phenolphthalein	77-09-8	ND	0.01	Carcinogenic	
69	Lead azide Lead diazide*1	13424-46-9	ND	0.01	Toxic for reproduction	
70	Lead styphnate*1	15245-44-0	ND	0.01	Toxic for reproduction	
71	Lead dipicrate*1	6477-64-1	ND	0.01	Toxic for reproduction	
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND	0.01	Toxic for reproduction	
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND	0.01	Toxic for reproduction	
74	Diboron trioxide*1	1303-86-2	ND	0.01	Toxic for reproduction	
75	Formamide	75-12-7	ND	0.01	Toxic for reproduction	
76	Lead(II) bis(methanesulfonate)* 1	17570-76-2	ND	0.01	Toxic for reproduction	
77	1,3,5-tris(oxiranylmethyl)-1,3,5- triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	ND	0.01	Mutagenic	
78	1,3,5-tris[(2S and 2R)-2,3- epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione (β-TGIC)	59653-74-6	ND	0.01	Mutagenic	
79	4,4'- bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND	0.01	Carcinogenic	
80	N,N,N',N'-tetramethyl-4,4'- methylenedianiline (Michler's base)	101-61-1	ND	0.01	Carcinogenic	
81	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cy clohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5)	2580-56-5	ND	0.01	Carcinogenic	

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	or Michler's base (EC No. 202-959- 2)]				
82	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien- 1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	ND	0.01	Carcinogenic
83	4,4'-bis(dimethylamino)-4''- (methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	ND	0.01	Carcinogenic
84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	ND	0.01	Carcinogenic
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND	0.01	PBT;vPvB
86	Pentacosafluorotridecanoic acid	72629-94-8	ND	0.01	vPvB
87	Tricosafluorododecanoic acid	307-55-1	ND	0.01	vPvB
88	Henicosafluoroundecanoic acid	2058-94-8	ND	0.01	vPvB
89	Heptacosafluorotetradecanoic acid	376-06-7	ND	0.01	vPvB
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND	0.01	Equivalent level of concern having probable serious effects to human health
91	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149- 00-3, 14166-21- 3	ND	0.01	Equivalent level of concern having probable serious effects to human health

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification	
92	Hexahydromethylphthalic anhydride Hexahydro-4-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	ND	0.01	Equivalent level of concern having probable serious effects to human health	
93	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	ND	0.01	Equivalent level of concern having probable serious effects to the environment	
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	1	ND	0.01	Equivalent level of concern having probable serious effects to the environment	
95	Methoxyacetic acid	625-45-6	ND	0.01	Toxic for reproduction	
96	N,N-dimethylformamide	68-12-2	ND	0.01	Toxic for reproduction	
97	Dibutyltin dichloride (DBT)*4	683-18-1	ND	0.01	Toxic for reproduction	
98	Lead monoxide (Lead oxide) *1	1317-36-8	ND	0.01	Toxic for reproduction	
99	Orange lead (Lead tetroxide) *1	1314-41-6	ND	0.01	Toxic for reproduction	
100	Lead bis(tetrafluoroborate) *1	13814-96-5	ND	0.01	Toxic for reproduction	
101	Trilead bis(carbonate)dihydroxide*1	1319-46-6	ND	0.01	Toxic for reproduction	
102	Lead titanium trioxide*1	12060-00-3	ND	0.01	Toxic for reproduction	
103	Lead titanium zirconium oxide*1	12626-81-2	ND 0.01		Toxic for reproduction	
104	Silicic acid, lead salt*1	11120-22-2	ND	0.01	Toxic for reproduction	
105	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped *1	68784-75-8	ND	0.01	Toxic for reproduction	

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]			, ,	
106	1-bromopropane (n-propyl bromide)	106-94-5	ND	0.01	Toxic for reproduction
107	Methyloxirane (Propylene oxide)	75-56-9	ND	0.01	Carcinogenic; mutagenic
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND	0.01	Toxic for reproduction
109	Diisopentylphthalate (DIPP)	605-50-5	ND	0.01	
110	N-pentyl-isopentylphthalate	776297-69-9	ND	0.01	Taxia for reproduction
111	1,2-diethoxyethane	629-14-1	ND	0.01	Toxic for reproduction
112	Acetic acid, lead salt, basic*1	51404-69-4	ND	0.01	
113	Lead oxide sulfate*1	12036-76-9	ND	0.01	Toxic for reproduction
114	[Phthalato(2-)]dioxotrilead*1	69011-06-9	ND	0.01	Toxic for reproduction
115	Dioxobis(tearate)trilead*1	12578-12-0	ND	0.01	Toxic for reproduction
116	Fatty acids, C16-18, lead salts*1	91031-62-8	ND	0.01	Toxic for reproduction
117	Lead cynamidate*1	20837-86-9	ND	0.01	Toxic for reproduction
118	Lead dinitrate*1	10099-74-8	ND	0.01	Toxic for reproduction
119	Pentalead tetraoxide sulphate*1	12065-90-6	ND	0.01	Toxic for reproduction
120	Pyrochlore, antimony lead yellow*1	8012-00-8	ND	0.01	Toxic for reproduction

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification	
121	Sulfurous acid, lead salt, dibasic*1	62229-08-7	ND	0.01	Toxic for reproduction	
122	Tetraethyllead*1	78-00-2	ND	0.01	Toxic for reproduction	
123	Tetralead trioxide sulphate*1	12202-17-4	ND	0.01	Toxic for reproduction	
124	Trilead dioxide phosphonate*1	12141-20-7	ND	0.01	Toxic for reproduction	
125	Furan	110-00-9	ND	0.01	Carcinogenic	
126	Diethyl sulphate	64-67-5	ND	0.01	Carcinogenic; mutagenic	
127	Dimethyl sulphate	77-78-1	ND	0.01	Carcinogenic	
128	3-ethyl-2-methyl-2-(3-methylbutyl)- 1.3-oxazolidine	143860-04-2	ND	0.01	Toxic for reproduction	
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	ND	0.01	Toxic for reproduction	
130	4,4'-methylenedi-o-toluidine	838-88-0	ND	0.01	Carcinogenic	
131	4,4'-oxydianiline and its salts	101-80-4	ND	0.01	Carcinogenic; mutagenic	
132	4-aminoazobenzene	60-09-3	ND	0.01	Carcinogenic	
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	ND	0.01	Carcinogenic	
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND	0.01	Carcinogenic	
135	Biphenyl-4-ylamine	92-67-1	ND	0.01	Carcinogenic	
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)	97-56-3	ND	0.01	Carcinogenic	
137	o-toluidine	95-53-4	ND	0.01	Carcinogenic	
138	N-methylacetamide	79-16-3	ND	0.01	Toxic for reproduction	
139	Cadmium* ¹	7440-43-9	ND	0.01	Carcinogenic	

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
140	Cadmium oxide* ¹	1306-19-0	ND	0.01	Carcinogenic; Equivalent level of concern having probable serious effects to human health
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND	0.01	Toxic for reproduction
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND	0.01	Toxic for reproduction
143	Dipentyl phthalate (DPP)	131-18-0	ND	0.01	Toxic for reproduction
144	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	ND	0.01	Equivalent level of concern having probable serious effects to the environment
145	Cadmium sulphide*1	1306-23-6	ND	0.01	Carcinogenic; equivalent level of concern having probable serious effects to human health
146	Dihexyl phthalate(DnHP)	84-75-3	ND	0.01	Toxic for reproduction
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	ND	0.01	Carcinogenic
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	ND	0.01	Carcinogenic
149	Imidazolidine-2-thione; 2-imidazoline- 2-thiol	96-45-7	ND	0.01	Toxic for reproduction

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
150	Lead di(acetate) *1	301-04-2	ND	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	ND	0.01	Toxic for reproduction
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear* ⁷	68515-50-4	ND	0.01	Toxic for reproduction
153	Cadmium chloride* ¹	10108-64-2	ND	0.01	Carcinogenic; mutagenic; Toxic for reproduction; equivalent level of concern having probable serious effects to human health
154	Sodium perborate; perboric acid, sodium salt*1	-	ND	0.01	Toxic for reproduction
155	Sodium peroxometaborate*1	7632-04-4	ND	0.01	Toxic for reproduction
156	Cadmium fluoride* ¹	7790-79-6	ND	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
157	Cadmium sulphate* ¹	10124-36-4; 31119-53-6	ND	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
158	2-benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320)	3846-71-7	ND	0.01	PBT; vPvB
159	2-ethylhexyl 10-ethyl-4,4-dioctyl-7- oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (DOTE)*5	15571-58-1	ND	0.01	Toxic for Reproduction
160	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	ND	0.01	PBT; vPvB
161	Reaction mass of 2-ethylhexyl 10- ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-	-	ND	0.01	Toxic for Reproduction

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Sample 061

No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	dithia-4-stannatetradecanoate and 2- ethylhexyl 10-ethyl-4-[[2-[(2- ethylhexyl)oxy]-2-oxoethyl]thio]-4- octyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (reaction mass of DOTE*5 and MOTE*6)				
162	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	ND	0.01	Toxic for Reproduction
163	5-sec-butyl-2-(2,4-dimethylcyclohex- 3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex- 3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	ND	0.01	vPvB
164	Nitrobenzene	98-95-3	ND	0.01	Toxic for reproduction
165	2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	ND	0.01	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)- 6-(sec-butyl)phenol (UV-350)	36437-37-3	ND	0.01	vPvB
167	1,3-propanesultone	1120-71-4	ND	0.01	Carcinogenic
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	ND	0.01	Toxic for reproduction; PBT
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	ND	0.01	Carcinogenic Mutagenic Toxic for reproduction PBT vPvB
170	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	ND	0.01	Toxic for reproduction Endocrine disrupting properties
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	ND	0.01	Toxic for reproduction PBT

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Sample 061

No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	Decanoic acid, nonadecafluoro-, sodium salt CAS no.: 3830-45-3				
	Ammonium nonadecafluorodecanoate CAS no.: 3108-42-7	-	ND	0.01	
	Nonadecafluorodecanoic acid CAS no.: 335-76-2	-	ND	0.01	
172	p-(1,1-dimethylpropyl)phenol	80-46-6	ND	0.01	Equivalent level of concern having probable serious effects to environment
173	4-heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	ND	0.01	Equivalent level of concern having probable serious effects to environment
174	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	ND	0.01	vPvB

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Remark:

- Definition Of Classification Is Listed In Appendix A Of This Report In Accordance With 67/548/EEC And Regulation(EC) NO 1907/2006
- ND=Not Detected(Lower Than Reporting Limit
- In Case SVHC <0.1% For Articles"No Furture Obligations Regarding Communication Along The Supply Chain Or Notification Emerge From The Analytical Findings In The Tested Sample". In Case SVHC>0.1% For Articles "Further Obligations Regarding Communication Along The Supply Chain Or Notification May Emerge From The Analytical Findings In The Tested Sample.
- *1 Calculated Concentration Are Based On The Identified Heavy Metal Result Identity Of Above Metal Substances Present In The Article Has To Be Further Confirmed. RI Is Evaluated For Element(I.E.Tin,Cobalt,Arsenic,Lead,Sodium,Chromium(VI),Aluminum,Silicon,Zirconium,Molybdenum, Boron, Zinc, Strontium, Cadmium Respectively)
- *2 The Values Are Determined Based On A Reference Anthracene. Test Result Is Calculated As Per Selected Identifiers Of The SVHC. The SVHC Consists Of A Diverse Combination Of Chemical Compounds Fulfilling The Definition Of UVCB (Substances Of Unknown Or Variable Composition, Complex Reaction Products Or Biological Materials) Under Reach Regulation. Due To The UVCB Nature The Reported Values May Be Regarded As Semi-Quantitative.
- *3 Calculated From Tributytin(TBT) Content.
- * Dibutyltin Dichloride (DBTC) Concentration Is Based On The GC/MS Result Of Dibutyltin (DBT).
- *5 Calculated From Dibutyltin Dichloride(DOT) Content.
- *6 Calculated From Monooctyltin-Trichloride(MOT) Content.
- **10.** * If Detected, The Sample Contains The Mixture Of Dihexyl Phthalate.
- 11. # The Results Obtained Represent The Hypothetical Concentration Based On The Numerical Calculation Using A Screening Method Of The Individual Elements Only, And They Are For Reference Purpose Only. It Is Advised To Further Investigate The Actual Result Of Such SVHC Compounds In The Sample By Other Means, Including But Not Limited To, Raw Materials Usage, Chemical Formulation Review, Production Process Study Etc.

Appendix A

Classification Definition Under 67/548/EEC And Regulation (EC) No 1907/2006

Carcinogen Substances Known To Be Carcinogenic To Man. There Is Sufficient Evidence To Establish A Causal

Category 1: Association Between Human Exposure To A Substance And The Development Of Cancer.

Substances Which Should Be Regarded As If They Are Carcinogenic To Man. There Is Sufficient Evidence To Carcinogen Provide A Strong Presumption That Human Exposure To A Substance May Result In The Development Of Category 2:

Cancer.

Generally On The Basis Of:

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Appropriate Long-Term Animal Studies

Other Relevant Information

Mutagen Category

1:

Substances Known To Be Mutagenic To Man. There Is Sufficient Evidence To Establish A Causal Association

Between Human Exposure To A Substance And Heritable Genetic Damage

Mutagen Category

Substances Which Should Be Regarted As If They Are Mutagenic To Man. There Is Sufficient Evidence To Provide A Strong Presumption That Human Exposure To The Substance May Result In The Development Of Heritable Genetic Damage, Generally On The Basis Of:

Appropriate Animal Studies, Other Relevant Information

Toxic To Reproduction Category 1:

Substances Known To Impair Fertility In Humans. There Is Sufficient Evidence To Establish A Causal

Relationship Between Human Exposure To The Substance And Impaired Fertility.

Substances Known To Cause Developmental Toxicity In Humans. There Is Sufficient Evidence To Establish A Causal Relationship Between Human Exposure To The Substance And Subsequent Developmental Toxic Effects In The Progeny.

Toxic To Reproduction Category 2:

Substances Which Should Be Regarded As If They Impair Fetility In Humans. There Is Sufficient Evidance To Provide A Strong Presumption That Human Exposure To The Substance May Result In Impaired Fertility On The Basis Of:

Clear Evidence In Animal Studies Of Impaired Fertility In The Absence Of Toxic Effects, Or, Evidence Of Impaired Fertility Occurring At Around The Same Dose Levels As Other Toxic Effects But Which Is Not A Secondary Nonspecific Consequence Of The Other Toxic Effects,

Other Relevant Information

Substances Which Should Be Regarded As If They Cause Developmental Toxicity To Humans. There Is Sufficient Evidence To Provide A Strong Presumption That Human Exposure To The Substance May Result In Developmental Toxicity, Generally On The Basis Of:

Clear Results In Appropriate Animal Studies Where Effects Have Been Observed In The Absence Of Signs Of Marked Maternal Toxicity, Or At Around The Same Dose Levels As Other Toxic Effects But Which Are Not A Secondary Non-Specific Consequence Of The Other Toxic Effects.

Other Relevant Information

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PBT & vPvB:

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Substances Which Are Persistent, Bioaccumulative And Toxic (PBT) Or Very Pesistent And Very

Bioaccumulative (vPvB) Pose A Particular Challenge To The Chemicals Safety Management. For These Substances A "Safe" Concentration In The Environment Cannot Be Established With Sufficient Reliablity.

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12. Overall Migration Test for Food Contact Plastics [EU No 10/2011 with Amendments]

Test Method: EN 1186:2002

Sample	Simulant(s)	Test Condition	Test Result (mg/dm²)	<u>Detection Limit</u> (mg/dm²)	Requirement (mg/dm²)	Rating
	A (10% Ethanol)	40°C, 10 days	2.50	1	10	PASS
050	B (3% Acetic acid)	40°C, 10 days	2.37	1	10	PASS
(For Second Submission)	D2 (Iso-octane, Replace Vegetable Oil)	20°C, 2 days	•	1	10	PASS
	D ₂ (95% Ethanol, Replace Vegetable Oil)	40°C, 10 days	2.50	1	10	PASS
	"<" means	less than: "mg/dm²" m	eans milligrams ne	er square decimeter		

<" means less than; "mg/dm²" means milligrams per square decimeter

13. Specific Migration of Heavy Metals for Food Contact Plastics [EU No 10/2011 with Amendments]

Test Method: Extract According to EN 13130-1:2004; Followed by Analysis Using ICP-OES.

<u>Sample</u>	Simulant/ Test Conditions	Test Item(s)	Test Result (mg/kg)	Detection Limit (mg/kg)	Requirements (mg/kg)	Rating
050	3% Acetic Acid/ 40°C, 10 days	Ва	<0.02	0.02	1	PASS
		Со	<0.02	0.02	0.05	PASS
		Cu	<0.02	0.02	5	PASS
		Fe	<0.02	0.02	48	PASS
		Li	<0.02	0.02	0.6	PASS
		Mn	0.02	0.02	0.6	PASS
		Al	0.02	0.02	1	PASS
		Ni	<0.02	0.02	0.02	PASS
		Zn	0.2	0.02	5	PASS
	,	<" means less than	ı; "mg/kg" means mil	lligrams per kilogram		

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14. Sensory Examination Test for finished product [LFGB]

Test Method: With reference to DIN 10955:2004

Test media: Distilled water

No. of panellist: 6

Test Item	Test Condition	Sample 061	Requirement	Rating
Sensorial examination odour (Point scale)	40°C 10 days	0	<2.5	PASS
Sensorial examination taste (Point scale)	40°C, 10 days	0	<2.5	PASS

Scale Evaluation:

0 = No Perceptible Off-Odour/Taste

1 = Off-Odour/Taste Just Perceptible (But Still Difficult To Define)

2 = Slight Off-Odour/Taste

3 = Distinct Off-Odour/Taste

4 = Strong Off-Odour/Taste

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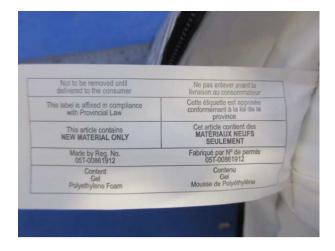
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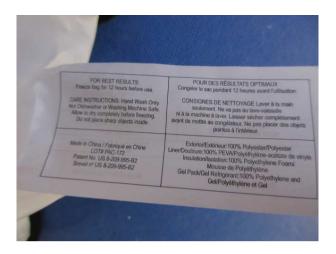


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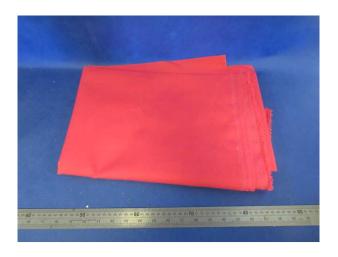


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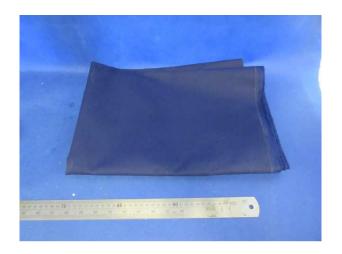


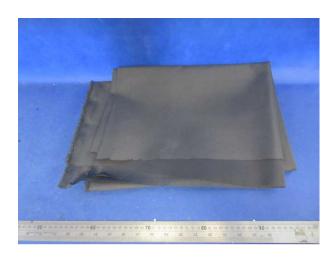
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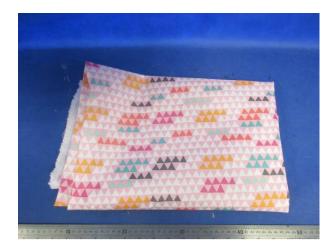
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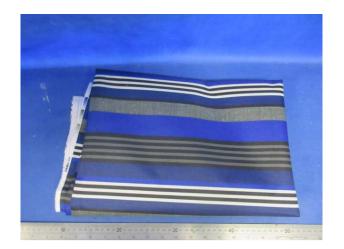
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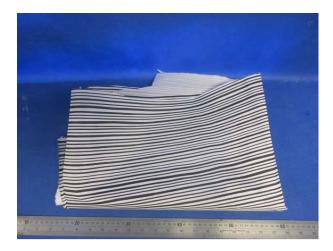
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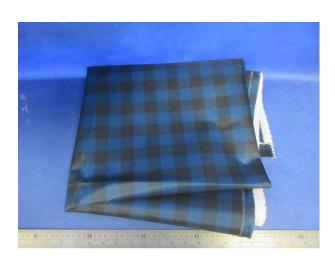
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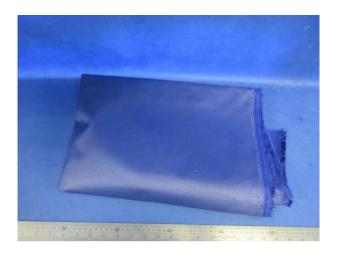


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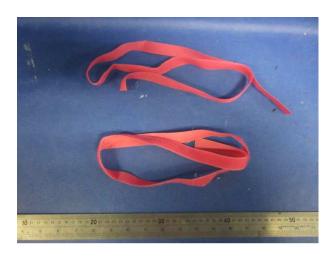
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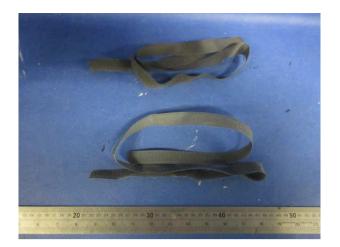


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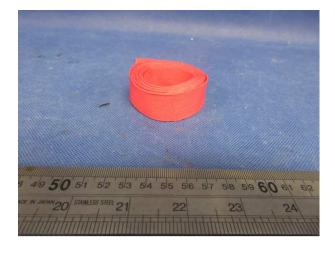
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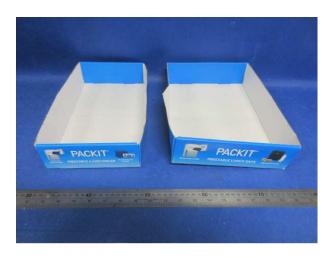
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- Deliverables. We will provide you with a report outlining: (i) your instructions and request for Services accepted by us. (ii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or reprincing that accepted by us. (ii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or reprincing that accepted by us. (iii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or reprincing that accepted by us. (iii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or reprincing that accepted by us. (iii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or reprincing that accepted by us. (iii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or reprincing that accepted by used to be accep
- Our Findings. We do not guarantee that our opinions or findings will be recognized or accepted by third parties. **我司的发现**:我司不保证我司的意见或发现会被第三方认可或接受。
- ise of Names and Marks. Except as otherwise authorized by us in writing, you will not use our name, abbreviation, symbols, marks, or the name of any of our subsidiaries, affiliates, or parent on any goods or their containers or packaging, or in connection with any advertising, promotions, or othe (新來記載後日子子面授权外,费可不会在任何货物或其常器或包装上,使用我司的名称、缩写、符号、标记或我司的任何子公司、关联方或母公司的名称。或将之与任何广告、推广或其他方面相联系。
- 不保证,本条款及条件中,以及在本条款及条件可,违误在本件可,通讯的工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但是一个工程,但一个工程,但是一个工程,但
- Your Information. You represent and warrant that all information and data provided to us by you, or on your behalf, is complete and accurate and may be relied upon to provide Services. In addition, you represent and warrant that all of Your Information is owned or itemsed by you, and does not infininge on the intellectual property rights of any third party. If any information or data provided to us by you or on your behalf is either incomplete or inaccurate, we will not be liable in any manner for any deficiencies in the Services.

 清明的是,读可能是并保证,读可能使用的是可能使用的表面,我们就是可能使用的表面,我们就是一个专家的工作,并不仅是任何第三方的知识产权。倘若要可能使用的正确的工作,并不仅是任何第三方的知识产权。倘若要可能使用的正确的工作,并不仅是任何第三方的知识产权。倘若要可或费可的代表问及可提供的任何总是或数据不完整或不准确,我可不是任何的工作,并不仅是任何第三方的知识产权。倘若要可或费可的代表问及可能使用的工作。
- 13. Ownership of Work Product. You will own the test reports or other materials provided to you pursuant to any Ouzstation. We may retain a copy of the test reports and other materials for our archives and for creating reports for you and third parties, as required by you pursuant to any Ouzstation. We may retain a copy of the test reports and other materials for our archives and for creating reports for you and third parties, as required by you archives and for creating reports for you and third parties, as required by you archives and other materials for our archives and for creating reports for you and third parties, as required by you.
- Web Services. We may provide you with certain website tools and related services, including the ability to order services online through a website (collectively, the "Web Services"). The Web Services are provided to you as a convenience and are provided on an "as is, as available" basis. By using the Web Services, you acknowledge that if you wish to protect you with the web Services are provided to be secure or fee from unsubnizzed intrasion, and that data stored by us, or affaileds, or our services are provided on an "as is, as available" basis. By using the Web Services, as quaranteed to be secure or fee from unsubnizzed intrasion, and that data stored by us, or affaileds, or our services are provided on an "as is, as available" basis. By using the Web Services. The web Services are provided intrasion, and that data stored by us, or affaileds, or our services are provided on an "as is, as available" basis. By using the Web Services. The web Services are provided intrasion, and that data stored by us, or affaileds, or our services are provided on an "as is, as available" basis. By using the Web Services. The web Services. The web Services. The web Services are provided on an "as is, as available" basis. By using the Web Services. The web Services. The web Services. The web Services. The web Services are provided on an "as is, as available" basis. By using the Web Services. The survive of the web Services are provided to you as a convenience and are provided on an "as is, as available" basis. By using the Web Services. The survive or whether the survive or web Services. The survive or whether the survive or web Services. The survive or whether the sur

- Confidentiality. We will not disclose your information obtained in confidence ("Confidential Information") to third parties, except our subsidiaries, affiliates, or subcontractors, without your prior written authorization. Confidential Information will not include information: (a) already known to us, (b) publicly available, (c) subsequently acquired by us from other sources without a protect of these Terms and Conditions, (d) disclosure that is necessary to perform the Services, (e) required to be produced by law or government order, or accreditation authority, or (f) related to a product bearing a UL Mark that should be disclosed to use or un affiliates by pursuant to another agreement with you.

 (情報: 我们不会在未经有调查中外生物证状的的风下模块可读符像,关于调可的保管信息(以下降保管信息)较高格第二方(我同位了多一,关联方或分包高条外)。保管信息不包括以下信息。(a) 我可已经知意信息。(b) 可分开获得的信息。(c) 我可能在不违反本条款及条件的情况下从其他果道获得的信息。
 (c) 为了管理服务与有任务实践的服务会会证证明的企业,使用,或有的企业。或有与工程的企业,产品用以下的企业的企业,企业的企业的企业的企业。
- Samples. If we require sample examination, you will ship samples to us at your expense. Upon completion of testing, the samples will be destroyed, unless other arrangements are made for return of the samples at your expense. You acknowledge that testing and sample preparation may damage or destroy the (s), for which we will not be liable. 如果我可要求做抽样检查,费司会将样品运至我可,费用由费司承担,测试完成后,样品会被销毁,除幸费司做由安排自费将样品运回费司。费司承认,测试和样品准备工作都可能会损坏或破坏样品,对此我司将不承担责任。
- LIMITATION OF LIABILITY. OUR LIABILITY FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE OF ANY NATURE AND HOWSOEVER ARISING FOR ANY BREACH OF CONTRACT AND/OR ANY FAILURE TO EXERCISE APPROPRIATE SKILL AND CARE BY US WILL UNDER NO CIRCUMSTANCE EXCEED THE FEES RECEIVED FOR THE SPECIFIC SERVICES WHICH GIVE RISE TO SUCH CLAIMS. LINDER NO CIRCUMSTANCE WILL WE HAVE ANY LIABILITY FOR ANY CLAIMS FOR INDIRECT. CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO: LOSS OF PROFITS, GOODWILL, USE, DATA, FUTURE BUSINESS, OR PRODUCTION; CANCELLATION OF CONTRACTS ENTERED INTO BY YOU; OR OTHER INTANGIBLE LOSSES (EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES), UNDER NO GROUNSTANCE WILL WE BE LIABLE TO YOU FOR ANY CLAIMS FOR LOSS. DAMAGE, OR EXPENSE UNLESS SUCH CLAIM IS BROUGHT UNDER SECTION 24 (DISPUTES) WITHIN TWELVE MONTHS ATTER THE DATE OF THE 17.

- Indemnification. You will defend, hold harmless, and indemnify us and our officers, directors, trustees, employees, agents, or subcontractors against all claims made by any third party for loss, damage, or expense arising out of these Terms and Conditions, including without limitation, the perform
- Waiver. Any failure by a party to insist upon the performance of any section of these Terms and Conditions will not constitute a waiver of any rights under these Terms and Conditions or future performance of that section
- No Third Party Beneficiaries. The parties intend that no provisions of these Terms and Conditions will in any way bind or benefit any third party or the public at large and that no third party will have any rights or cause of action under these Terms and Conditions. In particular, in the event Singapore law govern these Terms and Conditions pursuant to Section 23 (Governing Law), a person or entity who is not a party to these Terms and Conditions will have no right under the Contracts (Rights of Third Parties) Act (Chapter 539) to enforce any term of these Terms and Conditions, regardless of whether such person or entity has been identified by name, as a member of a classe, or as answering a particular description.

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- Assignment. Neither party may assign any of its rights or obligations under these Terms and Conditions to any other person without the other party's written authorization. However, we may, upon written notice, assign our rights and obligations under these Terms and Conditions to any of our aff SUDSIDIAINES. **不無转让**、任何一方不得在未经另一方书面授权的情况下,将其在本条款及条件项下的任何权利或义务转让给他人,但是,我可可经书面通知,将我可在本条款及条件项下的各项权利和义务转让给我可的任何关联方或子公司。
- 22 Subcontracting. We may use subcontractors for certain testing or other Services. All subcontractors will meet our current qualification requirements and will comply with our requirements for confidentiality, conflicts of interest, and ethical standards.

 为他,我可以可以证明的任何自己的证明,我们可以证明的证明,我们可以证明的证明。
- 24

犯其知识产权。所有仲裁都将以英文进行。

- Severability. If any section of these Terms and Conditions is held invalid, void, or unenforceable for any reason that section will be severed, and all other sections of these Terms and Conditions will remain valid to the extent permissible under law. 可分割性。如果本条款及条件的所有其他条款将在法律允许的范围内依然有效。
- Modifications. These Terms and Conditions are the entire and complete agreement between the parties and supersede any other communications, representations, or agreements with respect to its subject matter. Under no circumstances will any preprinted, additional, or different terms and conditions no your requests for quotation, purchase orders, invoices, sales or marketing materials, emais, any acceptance communications, or other business documents apply to any Services or Quotation or bind us in any manner. Modifications that have not been made by us or that have not been made by us or
- dence. Except for conflicts with Section 3 (Payment Terms), Section 5 (Estimated Schedule and Price) and Section 10 (Cancellation Fees), these Terms and Conditions will take precedence over any conflicting terms in any Quotation 上海第条(支付条款)、第5条(预估的时间表和价格)和第10条(取消费)冲突,否则,本条款及条件将优先于任何报价文件中的任何冲突条款。
- Force Majeure. Neither party will be liable for any failure or delay in the performance of its obligations due to fire, flood, earthquake, elements of nature, or acts of God, acts of war, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default or delay; (i) could not have been prevented by reasonable precautions; (ii) cannot reasonable be circumvented; (ii) and the party hindered or delayed immediately notifies the other party describing the circumstance causing delay. **7. 用政人**: 任何一方由于火灾,武水、接收。自然国来发表中方外。多种主义、强争行为。易担。我是成日的自然免疫性所谓的大灾,但不是不少,或许不要的一个不对该等不履行或已延履行的情况来担任何责任,但需调足以下前提。该等不履行或已延履行的情况(ii) 无法通过合理的预防措施来协止,(ii) 无法被合理规型,且(iii) 该不履行或已延履行的情况。可以证据是不同情况。