



TEST REPORT

TEST REPORT NO: 1001857751

Apr.17, 2023

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Applicant : PACKIT
Address : 30501 Agoura Rd Suite 110, Agoura Hills, California, USA
Test Date : Mar 02 - Apr 17, 2023
Received Date: Mar 02, 2023
Contact Person : DIANE KIM
Contact Info: diane@packit.com

Sample Description: Packit Freezable Bags EU Testing

Style No.: / **No. of Sample Submitted:** /

Test Item	Conclusion
Total Lead Content in Substrates [Regulation (EC) 1907/2006 Annex XVII No.63]	PASS
Total Cadmium Content [REACH Annex XVII Entry 23]	PASS
Total Mercury Content according to REACH ANNEX XVII NO.62	PASS
Short Chain Chlorinated Paraffin (SCCPs) [Regulation (EU) No. 2019/1021]	PASS
Organotin Compound [REACH Annex XVII Entry 20]	PASS
Polycyclic Aromatic Hydrocarbons (PAHs) [REACH Annex XVII Entry 50]	PASS
Restriction of Phthalates according To Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 51/52	PASS
Overall Migration Test for Food Contact Plastics [EU No 10/2011 with Amendments & EU No 2020/1245]	PASS#
Specific Migration of Heavy Metals for Food Contact Plastics [EU No 10/2011 with Amendments & EU No 2020/1245]	PASS
Sensory Examination Test for finished product [LFGB]	PASS
Specific Migration of Primary Aromatic Amines (PAA) [EU No 10/2011 with Amendments & 284/2011& EU No 2020/1245]	PASS
Heavy Metals in Packaging (Lead/Cadmium/Chromium VI/Mercury) [94/62/EC]	PASS
Nickel Release for Coated Items [Regulation (EC) No.1907/2006 (REACH) and its amendments, Annex XVII, Entry 27]	PASS
Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEOs) [Regulation (EC) 1907/2006 Annex XVII No. 46 & 46a]	PASS
Detection of the Use of Banned Azo Colourants	PASS
Two hundred and thirty-three (233) 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
Remark: 1. The results relate only to the samples tested. 2. The tested Samples/Components/Test Item were selected by client. 3. #: This test was subcontracted.	

***** End of Page *****

For and on behalf of
UL VS Shanghai Limited

Lester. Xie- Operation Manager

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Sample Information :

Sample	Product	Applicant's equivalent code / Color
001	White/blue fabric	
002	Grey/red/multicolor fabric	
003	Pink/white/multicolor fabric	
004	Black/white fabric	
005	Black/grey fabric	
006	Aqua/white fabric	
007	Pink/aqua/multicolor fabric	
008	Blue grey/multicolor fabric	
009	Blue grey belt	
010	Black belt	
011	Light pink belt	
012	Grey belt	
013	Light blue belt	
014	Deep blue belt	
015	Deep pink belt	
016	Dark pink belt	
017	Aqua fabric (zipper)	
018	Black fabric (zipper)	
019	Light pink fabric (zipper)	
020	Grey fabric (zipper)	
021	Light blue fabric (zipper)	
022	Deep blue fabric (zipper)	
023	Deep pink fabric (zipper)	
024	Dark pink fabric (zipper) (small)	
025	Dark pink fabric (zipper) (large)	
026	Pink fabric (edge)	
027	Pink belt with pink thread (puller)	
028	Black fabric (lining)	
029	Black fabric with white thread (PACKIT logo)	
030	White fabric with black printing (SIL)	
031	Aqua plastic (zipper teeth)	
032	Black plastic (zipper teeth)	
033	Light pink plastic (zipper teeth)	
034	Grey plastic (zipper teeth)	

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035	Light blue plastic (zipper teeth)	
036	Deep blue plastic (zipper teeth)	
037	Deep pink plastic (zipper teeth)	
038	Dark pink plastic (zipper teeth) (small)	
039	Dark pink plastic (zipper teeth) (large)	
040	Black plastic (buckle)	
041	Blue plastic (lining)	
042	Grey metal (puller) (Flat head style)	
043	Grey metal (slider) (Flat head style)	
044	Grey metal (puller) (Pointy style)	
045	Grey metal (slider) (Pointy style)	
046	Black plastic (inside) (tube)	
047	White foam (inside)	
048	White plastic bag (gel pack)	
049	Transparent gel	
050	Multicolor paper card (package)	
051	Packit freezable bag	

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1. Total Lead Content in Substrates [Regulation (EC) 1907/2006 Annex XVII No.63]

Test Method : Digest the sample with acid, then analysed by ICP-OES

Detection Limit: 20.0mg/kg

Sample	Result(mg/kg)	Requirement(mg/kg)	
030	<20.0	Max. 500	PASS
031+032+033	<20.0	Max. 500	PASS
034+035+036	<20.0	Max. 500	PASS
037+038+039	<20.0	Max. 500	PASS
040+041	<20.0	Max. 500	PASS
042+043	29.8	Max. 500	PASS
044+045	24.8	Max. 500	PASS
046+047+048	<20.0	Max. 500	PASS

"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram

2. Total Cadmium Content [REACH Annex XVII Entry 23]

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)	
030	<7.5	Max.100	PASS
031+032+033	<7.5	Max.100	PASS
034+035+036	<7.5	Max.100	PASS
037+038+039	<7.5	Max.100	PASS
040+041	<7.5	Max.100	PASS
042+043	<7.5	Max.100	PASS
044+045	<7.5	Max.100	PASS
046+047+048	<7.5	Max.100	PASS

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3. 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)	
030	<10.0	Max. 100	PASS
031+032+033	<10.0	Max. 100	PASS
034+035+036	<10.0	Max. 100	PASS
037+038+039	<10.0	Max. 100	PASS
040+041	<10.0	Max. 100	PASS
042+043	<10.0	Max. 100	PASS
044+045	<10.0	Max. 100	PASS
046+047+048	<10.0	Max. 100	PASS

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4. Short Chain Chlorinated Paraffin (SCCPs) [Regulation (EU) No. 2019/1021]

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)	
001+002+003	<100	Max. 1500	PASS
004+005+006	<100	Max. 1500	PASS
007+008+009	<100	Max. 1500	PASS
010+011+012	<100	Max. 1500	PASS
013+014+015	<100	Max. 1500	PASS
016+017+018	<100	Max. 1500	PASS
019+020+021	<100	Max. 1500	PASS
022+023+024	<100	Max. 1500	PASS
025+026+027	<100	Max. 1500	PASS
028+029	<100	Max. 1500	PASS
030	<100	Max. 1500	PASS
031+032+033	<100	Max. 1500	PASS
034+035+036	<100	Max. 1500	PASS
037+038+039	<100	Max. 1500	PASS
040+041	<100	Max. 1500	PASS
046+047+048	<100	Max. 1500	PASS

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5. Organotin Compound [REACH Annex XVII Entry 20]

With Reference To EN ISO 17353: 2005. (Detection Limit= 0.01%)

Organotin Compounds	Sample 001+002+003 (express as Tin)	Sample 004+005+006 (express as Tin)	Sample 007+008+009 (express as Tin)	Requirement (express as Tin)
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Diocetyltn (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

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

Organotin Compounds	Sample 019+020+021 (express as Tin)	Sample 022+023+024 (express as Tin)	Sample 025+026+027 (express as Tin)	Requirement (express as Tin)
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Diocetyltn (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

"N.D." =Not Detected = Less than detection limit

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Organotin Compound [REACH Annex XVII Entry 20]

With Reference To EN ISO 17353: 2005. (Detection Limit= 0.01%)

Organotin Compounds	Sample 028+029 (express as Tin)	Sample 030 (express as Tin)	Sample 031+032+033 (express as Tin)	Requirement (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 Compounds	Sample 034+035+036 (express as Tin)	Sample 037+038+039 (express as Tin)	Requirement (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)

Organotin Compounds	Sample 040+041 (express as Tin)	Sample 046+047+048 (express as Tin)	Requirement (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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6. Polycyclic Aromatic Hydrocarbons (PAHs) [REACH Annex XVII Entry 50]

AfPS GS 2019:01 PAK (Detection Limit:0.1 mg/kg)

<u>Compounds</u>	<u>Result in mg/kg</u>			<u>Limit In mg/kg (Max.)</u>	
	Sample 030	Sample 031+032+033	Sample 034+035+036		
Benzo (a) anthracene	Not Detected	Not Detected	Not Detected	Each <1.0mg/kg	PASS
Chrysene	Not Detected	Not Detected	Not Detected		
Benzo (b) fluoranthene	Not Detected	Not Detected	Not Detected		
Benzo (j) fluoranthene	Not Detected	Not Detected	Not Detected		
Benzo (k) fluoranthene	Not Detected	Not Detected	Not Detected		
Benzo (a) pyrene	Not Detected	Not Detected	Not Detected		
Benzo (e) pyrene	Not Detected	Not Detected	Not Detected		
Dibenzo (a,h) anthracene	Not Detected	Not Detected	Not Detected		

<u>Compounds</u>	<u>Result in mg/kg</u>			<u>Limit In mg/kg (Max.)</u>	
	Sample 037+038+039	Sample 040+041	Sample 046+047+048		
Benzo (a) anthracene	Not Detected	Not Detected	Not Detected	Each <1.0mg/kg	PASS
Chrysene	Not Detected	Not Detected	Not Detected		
Benzo (b) fluoranthene	Not Detected	Not Detected	Not Detected		
Benzo (j) fluoranthene	Not Detected	Not Detected	Not Detected		
Benzo (k) fluoranthene	Not Detected	Not Detected	Not Detected		
Benzo (a) pyrene	Not Detected	Not Detected	Not Detected		
Benzo (e) pyrene	Not Detected	Not Detected	Not Detected		
Dibenzo (a,h) anthracene	Not Detected	Not Detected	Not Detected		

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7. Restriction of Phthalates according To Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 51/52

Test Method : EN 14372:2004 6.3.2 Determination of phthalate content

	<u>Sample 030</u>		<u>Sample 031+032+033</u>		<u>Sample 034+035+036</u>		<u>Client Requirement (%)</u>
Item	<u>Result (%)</u>	<u>Total (%)</u>	<u>Result (%)</u>	<u>Total (%)</u>	<u>Result (%)</u>	<u>Total (%)</u>	<u>Sum</u>
BBP	<0.01	<0.1	<0.01	<0.1	<0.01	<0.1	Max.0.1
DBP	<0.01		<0.01		<0.01		
DEHP	<0.01		<0.01		<0.01		
DIBP	<0.01		<0.01		<0.01		
DNOP	<0.01	<0.1	<0.01	<0.1	<0.01	<0.1	Max.0.1
DINP	<0.02		<0.02		<0.02		
DIDP	<0.02		<0.02				
	PASS		PASS		PASS		
	<u>Sample 037+038+039</u>		<u>Sample 040+041</u>		<u>Sample 046+047+048</u>		<u>Client Requirement (%)</u>
Item	<u>Result (%)</u>	<u>Total (%)</u>	<u>Result (%)</u>	<u>Total (%)</u>	<u>Result (%)</u>	<u>Total (%)</u>	<u>Sum</u>
BBP	<0.01	<0.1	<0.01	<0.1	<0.01	<0.1	Max.0.1
DBP	<0.01		<0.01		<0.01		
DEHP	<0.01		<0.01		<0.01		
DIBP	<0.01		<0.01		<0.01		
DNOP	<0.01	<0.1	<0.01	<0.1	<0.01	<0.1	Max.0.1
DINP	<0.02		<0.02		<0.02		
DIDP	<0.02		<0.02				
	PASS		PASS		PASS		
Remark:							
Method detected limit: BBP/DBP/DEHP/DIBP/DNOP=0.01%							
DINP/DIDP=0.02%							
Benzyl butyl phthalate , BBP; Dibutyl phthalate , DBP; Bis(2-ethylhexyl) phthalate , DEHP; Diisobutyl phthalate, DIBP							
Di-n-octyl phthalate , DNOP; Di-iso-nonyl phthalate , DINP; Diisodecyl phthalate , DIDP							

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8. Overall Migration Test for Food Contact Plastics [EU No 10/2011 with Amendments & EU No 2020/1245]

Test Method : EN 1186:2002

Sample	Simulant(s) /Test condition	1 st Contact Result (mg/dm ²)	2 nd Contact Result (mg/dm ²)	3 rd Contact Result (mg/dm ²)	Requirement for 3 rd Contact* (mg/dm ²)	Stability [#]	Rating
041	A (10% Ethanol) /40°C, 10 days	<3	<3	<3	Max.10	Complies	PASS
	B (3% Acetic acid) /40°C, 10 days	<3	<3	<3	Max.10	Complies	PASS
	D2 (95% Ethanol) /40°C, 10 days	4.6	<3	<3	Max.10	Complies	PASS
Remarks : 1. "<" means less than; "mg/dm ² " means milligrams per square decimeter 2. [#] The migration in the 2 nd contact shall not exceed the value observed in the 1 st contact, and the migration in the 3 rd contact shall not exceed the value observed in the 2 nd contact.							

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9. Specific Migration of Heavy Metals for Food Contact Plastics [EU No 10/2011 with Amendments & EU No 2020/1245]

Test Method: Extract According to EN 13130-1:2004; Followed by Analysis Using ICP-MS
Simulant: 3% acetic acid
Test Condition: 40°C, 10 days

Sample	Test Item(s)	1 st Contact Result (mg/kg)	2 nd Contact Result (mg/kg)	3 rd Contact Result (mg/kg)	Detection Limit (mg/kg)	Requirement for 3 rd Contact (mg/kg) Max.	Stability [#]	Rating
041	Aluminium(Al)	<0.2	<0.2	<0.2	0.2	1	Complies	PASS
	Barium(Ba)	<0.2	<0.2	<0.2	0.2	1	Complies	PASS
	Cobalt(Co)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Copper(Cu)	<1	<1	<1	1	5	Complies	PASS
	Iron(Fe)	<10	<10	<10	10	48	Complies	PASS
	Lithium(Li)	<0.1	<0.1	<0.1	0.1	0.6	Complies	PASS
	Manganese(Mn)	<0.1	<0.1	<0.1	0.1	0.6	Complies	PASS
	Nickel(Ni)	<0.01	<0.01	<0.01	0.01	0.02	Complies	PASS
	Zinc(Zn)	<0.5	<0.5	<0.5	0.5	5	Complies	PASS
	Antimony(Sb)	<0.01	<0.01	<0.01	0.01	0.04	Complies	PASS
	Arsenic(As)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Cadmium(Cd)	<0.001	<0.001	<0.001	0.001	ND (0.002)	Complies	PASS
	Chromium(Cr)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Europium(Eu)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Gadolinium(Gd)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Lanthanum(La)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Lead(Pb)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Mercury(Hg)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Terbium(Tb)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Overall migration*	<3	<3	<3	3	60	Complies	PASS

Remarks :

- "<" means less than; "mg/kg" means milligrams per square decimeter
- [#]The migration in the 2nd contact shall not exceed the value observed in the 1st contact, and the migration in the 3rd contact shall not exceed the value observed in the 2nd contact.
- * "Overall Migration" means the overall migration of Ammonium, Calcium, Potassium, Magnesium and Sodium that are subjected to limitation (60 mg/kg) due to Article 11(3) and Article 12 of the Regulation EU No 10/2011.

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10. 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	Requirement	Rating
		051		
Sensorial examination odour (Point scale)	40°C, 10 days	0	≤2.5	PASS
Sensorial examination taste (Point scale)		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/Tastes
- 3 = Distinct Off-Odour/Taste
- 4 = Strong Off-Odour/Taste

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11. Specific Migration of Primary Aromatic Amines (PAA) [EU No 10/2011 with Amendments & 284/2011& EU No 2020/1245]

Test Method: EUR 24815 EN 2011, test with HPLC-MS-MS

Simulant: 3% acetic acid

Test Condition: 40°C, 10 days

Sample	Test Item(s)	Result (mg/kg)	Detection Limit (mg/kg)	Requirement (mg/kg)	Rating
041	4-Aminobiphenyl (4-ABP)	<0.002	0.002	Max.0.002	PASS
	o-Anisidine (o-ASD)	<0.002	0.002	Max.0.002	PASS
	Benzidine (BNZ)	<0.002	0.002	Max.0.002	PASS
	4-Chloro-Aniline (4-CA)	<0.002	0.002	Max.0.002	PASS
	4-Chloro-o-Toluidine (4-CoT)	<0.002	0.002	Max.0.002	PASS
	4,4-Diaminodiphenylether (4,4'-DPE)	<0.002	0.002	Max.0.002	PASS
	4,4'-Methylenedianiline (4,4'-MDA)	<0.002	0.002	Max.0.002	PASS
	4,4'-Methylenedi-o-toluidine (4,4'-MDoT)	<0.002	0.002	Max.0.002	PASS
	2-Methoxy-5-Methylaniline (2-M-5-MA)	<0.002	0.002	Max.0.002	PASS
	4-Methoxy-m-phenylenediamine (4-M-mPDA)	<0.002	0.002	Max.0.002	PASS
	o-Toluidine (o-T)	<0.002	0.002	Max.0.002	PASS
	2,4-Toluenediamine (2,4-TDA)	<0.002	0.002	Max.0.002	PASS
	3,3-Dimethylbenzidine (3,3-DMB)	<0.002	0.002	Max.0.002	PASS
	2,4,5-Trimethylaniline (2,4,5-TMA)	<0.002	0.002	Max.0.002	PASS
	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	<0.002	0.002	Max.0.002	PASS
	3,3'-dimethoxybenzidine o-dianisidine	<0.002	0.002	Max.0.002	PASS
	4,4'-thiodianiline	<0.002	0.002	Max.0.002	PASS
	4-Aminoazobenzene	<0.002	0.002	Max.0.002	PASS
	2-naphthylamine	<0.002	0.002	Max.0.002	PASS
	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine	<0.002	0.002	Max.0.002	PASS
	o-aminoazotoluene,4-amino-2',3'-dimethylazobenzene,4-o-tolylazo-o-toluidine	<0.002	0.002	Max.0.002	PASS
	5-nitro-o-toluidine	<0.002	0.002	Max.0.002	PASS
	Aniline (ANL)	<0.002	0.002	--	--
	2,4-Dimethylaniline (2,4-DMA)	<0.002	0.002	--	--
	2,6-Dimethylaniline (2,6-DMA)	<0.002	0.002	--	--
	m-Phenylenediamine (m-PDA)	<0.002	0.002	--	--
	2,6-Toluenediamine (2,6-TDA)	<0.002	0.002	--	--
	Sum	<0.01	0.01	Max.0.01	PASS

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

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12. 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 or UV-VIS.

Sample	TOTAL CADMIUM	HEXAVALENT CHROMIUM	TOTAL LEAD	TOTAL MERCURY	Pb + Cd + Hg + Cr(VI)	
050	<2.0	<2.0	<5.0	<2.0	<11.0	PASS
Requirement (mg/kg)					Max. 100	
- All concentrations expressed in milligrams per kilogram						
- "<" means less than						

13. Nickel Release for Coated Items [Regulation (EC) No.1907/2006 (REACH) and its amendments, Annex XVII, Entry 27]

Test method: EN 12472:2005+A1:2009 EN 12472:2020 & EN 1811:2011+A1:2015

Detection Limit : 0.04µg/cm²/week

Sample	Vol. of Test Solution used (ml)	Tested Sample Area (cm ²)	Nickel Release (µg/cm ² /week)			Requirement (µg/cm ² /week)	
			Trial 1	Trial 2	Trial 3		
042	8.4	8.4	<0.04	<0.04	<0.04	<0.5	PASS
043	5.8	5.8	<0.04	<0.04	<0.04	<0.5	PASS
044	8.4	8.4	<0.04	<0.04	<0.04	<0.5	PASS
045	5.8	5.8	<0.04	<0.04	<0.04	<0.5	PASS

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14. Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEOs) [Regulation (EC) 1907/2006 Annex XVII No. 46 & 46a]

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

Sample	Result (mg/kg)		Requirement (mg/kg)	
001+002+003	NP	<10	< 100	PASS
	NPEO	<10	< 100	
004+005+006	NP	<10	< 100	PASS
	NPEO	<10	< 100	
007+008+009	NP	<10	< 100	PASS
	NPEO	<10	< 100	
010+011+012	NP	<10	< 100	PASS
	NPEO	<10	< 100	
013+014+015	NP	<10	< 100	PASS
	NPEO	<10	< 100	
016+017+018	NP	<10	< 100	PASS
	NPEO	<10	< 100	
019+020+021	NP	<10	< 100	PASS
	NPEO	<10	< 100	
022+023+024	NP	<10	< 100	PASS
	NPEO	<10	< 100	
025+026+027	NP	<10	< 100	PASS
	NPEO	<10	< 100	
028+029	NP	<10	< 100	PASS
	NPEO	<10	< 100	
030	NP	<10	< 100	PASS
	NPEO	<10	< 100	

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15. Detection of the Use of Banned Azo Colourants

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 ISO 14362-1:2017 for textile, EN ISO 17234-1:2020 for leather materials. The presence of 4-aminoazobenzene is determined by EN ISO 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)

BENZIDINE (CAS No. 92-87-5)	3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No. 838-88-0)
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'-DICHLOOROBENZIDINE (CAS No. 91-94-1)	3,3'-DIMETHYLBENZIDINE (CAS No. 119-93-7)
3,3'-DIMETHOXYBENZIDINE (CAS No. 119-90-4)	4-AMINOAZOBENZENE (CAS No. 60-09-3)
2,4-XYLIDINE (CAS No. 95-68-1)	2,6-XYLIDINE (CAS No. 87-62-7)

Sample	Test Method	Result (Amine Detected)	Comments
001	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
001	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
002	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
002	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
003	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
003	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
004	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
004	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
005	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
005	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
006	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
006	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
007	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS

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007	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
008	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
008	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
009+010+011	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
009+010+011	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
012+013+014	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
012+013+014	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
015+016+017	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
015+016+017	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
018+019+020	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
018+019+020	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
021+022+023	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
021+022+023	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
024+025+026	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
024+025+026	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
027+028+029	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
027+028+029	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS
030	EN ISO14362-1:2017 (With Extraction)	Not Detected	PASS
030	EN ISO14362-1:2017 (Without Extraction)	Not Detected	PASS

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

Test Conclusions:

(1) The submitted samples

(001),(002),(003),(004),(005),(006),(007),(008),(009+010+011),(012+013+014),(015+016+017),(018+019+020),(021+022+023),(024+025+026),(027+028+029) and (030) did not contain the 24 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:

1. In the case of levels per amine component $\leq$ 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.
2. 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.
3. 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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16. Two Hundred And Thirty-Three (233) 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

Acid Digestion, Analysis Performed By ICP-AES and/or ICP-MS; And Solvent Extraction, Analysis Performed By GC/MS, GC/ECD and/or LC-MS-MS (In-House Method)

Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049

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 1
6	Diarsenic trioxide*1	1327-53-3	ND	0.01	Carcinogen category 1
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	PBT
13	Lead hydrogen arsenate*1	7784-40-9	ND	0.01	Carcinogen category 1;toxic to reproduction category 1
14	Sodium dichromate*1	7789-12-0 10588-01-9	ND	0.01	Carcinogen category 2;mutagen category 2;toxic to reproduction category 2

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
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
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

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ADF-001 (2018-09-18)



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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
					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	7738-94-5	ND	0.01	Carcinogenic

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	chromium 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 (DHNP)	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

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
					serious effects to the environment
61	1,2-Dichloroethane	107-06-2	ND	0.01	Carcinogenic
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'-	101-61-1	ND	0.01	Carcinogenic

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	methylenedianiline (Michler's base)				
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]meth ylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	ND	0.01	Carcinogenic
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	Pentacosafuorotridecanoic acid	72629-94-8	ND	0.01	vPvB
87	Tricosafuorododecanoic acid	307-55-1	ND	0.01	vPvB
88	Henicosafuoroundecanoic acid	2058-94-8	ND	0.01	vPvB

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
89	Heptacosafuorotetradecanoic 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
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]	-	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

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
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 (H ₂ SiO ₅), barium salt (1:1), lead-doped *1 [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]	68784-75-8	ND	0.01	Toxic for reproduction
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	Toxic for reproduction
110	N-pentyl-isopentylphthalate	776297-69-9	ND	0.01	
111	1,2-diethoxyethane	629-14-1	ND	0.01	
112	Acetic acid, lead salt, basic*1	51404-69-4	ND	0.01	

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ADF-001 (2018-09-18)



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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
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(earate)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 cyanamide*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
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-	95-80-7	ND	0.01	Carcinogenic

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	2,4-diamine)				
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
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

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
					concern having probable serious effects to human health
146	Diethyl 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
150	Lead di(acetate) *1	301-04-2	ND	0.01	Toxic for reproduction
151	Triethyl phosphate	25155-23-1	ND	0.01	Toxic for reproduction
152	1,2-Benzenedicarboxylic acid, diethyl 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;

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
					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-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)	-	ND	0.01	Toxic for Reproduction
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)-	-	ND	0.01	vPvB

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]				
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 Decanoic acid, nonadecafluoro-, sodium salt CAS no.: 3830-45-3	-	ND	0.01	Toxic for reproduction PBT
	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	-	ND	0.01	Equivalent level of concern having probable

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	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				serious effects to environment
174	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	ND	0.01	vPvB
175	1,6,7,8,9,14,15,16,17,17,18, 18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]oct adeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	ND	0.01	vPvB
176	Benz[a]anthracene	56-55-3	ND	0.01	Carcinogenic PBT vPvB
177	Cadmium carbonate* ¹	513-78-0	ND	0.01	Carcinogenic Mutagenic Specific target organ toxicity after repeated exposure
178	Cadmium hydroxide* ¹	21041-95-2	ND	0.01	Carcinogenic Mutagenic Specific target organ toxicity after repeated exposure
179	Cadmium nitrate* ¹	10325-94-7	ND	0.01	Carcinogenic Mutagenic Specific target organ toxicity after repeated exposure
180	Chrysene	218-01-9	ND	0.01	Carcinogenic PBT vPvB

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ADF-001 (2018-09-18)



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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	ND	0.01	Endocrine disrupting properties
182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7	ND	0.01	Respiratory sensitising properties
183	Dicyclohexyl phthalate (DCHP)	84-61-7	ND	0.01	Toxic for reproduction Endocrine disrupting properties
184	Benzo[ghi]perylene	191-24-2	ND	0.01	PBT vPvB
185	Decamethylcyclopentasiloxane (D5)	541-02-6	ND	0.01	PBT vPvB
186	Disodium octaborate	12008-41-2	ND	0.01	Toxic for reproduction
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.01	PBT vPvB
188	Ethylenediamine (EDA)	107-15-3	ND	0.01	Respiratory sensitising properties
189	Lead	7439-92-1	ND	0.01	Toxic for reproduction
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	ND	0.01	PBT vPvB
191	Terphenyl hydrogenated	61788-32-7	ND	0.01	vPvB
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	ND	0.01	Endocrine disrupting properties
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	ND	0.01	Toxic for reproduction
194	Benzo[k]fluoranthene	207-08-9	ND	0.01	Carcinogenic PBT vPvB
195	Fluoranthene	206-44-0; 93951-69-0	ND	0.01	PBT vPvB
196	Phenanthrene	85-01-8	ND	0.01	vPvB

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
197	Pyrene	129-00-0; 1718-52-1	ND	0.01	PBT vPvB
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	ND	0.01	Endocrine disrupting properties
199	4-tert-butylphenol	98-54-4	ND	0.01	Endocrine disrupting properties
200	2-methoxyethyl acetate	110-49-6	ND	0.01	Toxic for reproduction
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	ND	0.01	Equivalent level of concern having probable serious effects to human health Equivalent level of concern having probable serious effects to the environment
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	ND	0.01	Toxic for reproduction
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.01	Toxic for reproduction
204	Diisohexyl phthalate	71850-09-4	ND	0.01	Toxic for reproduction
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.01	Equivalent level of concern having probable serious effects to human health Equivalent level of concern having probable serious effects to the environment
206	1-vinylimidazole	1072-63-5	ND	0.01	Toxic for reproduction
207	2-methylimidazole	693-98-1	ND	0.01	Toxic for reproduction
208	butyl 4-hydroxybenzoate	94-26-8	ND	0.01	Endocrine disrupting properties

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	ND	0.01	Toxic for reproduction
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	ND	0.01	Toxic for reproduction
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	ND	0.01	Toxic for reproduction
212	1,4-dioxane	123-91-1	ND	0.01	Carcinogenic Equivalent level of concern having probable serious effects to human health Equivalent level of concern having probable serious effects to the environment
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	ND	0.01	Carcinogenic
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	ND	0.01	Toxic for reproduction
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	ND	0.01	Endocrine disrupting properties
216	glutaral	111-30-8	ND	0.01	Respiratory sensitising properties
217	Medium-chain chlorinated paraffins (MCCP)	-	ND	0.01	PBT vPvB
218	orthoboric acid, sodium salt ^{*1}	-	ND	0.01	Toxic for reproduction

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Sample 001+002+003+004+005+006+007+008+009+010, 011+012+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+046+047+048, 049					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	ND	0.01	Toxic for reproduction Endocrine disrupting properties
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	ND	0.01	Endocrine disrupting properties
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	ND	0.01	Toxic for reproduction
222	S-(tricyclo(5.2.1.0^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	ND	0.01	PBT
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	ND	0.01	Toxic for reproduction
224	N-(hydroxymethyl)acrylamide	924-42-5	ND	0.01	Carcinogenic Mutagenic
225	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	ND	0.01	vPvB
226	Perfluoroheptanoic acid and its salts	-	ND	0.01	Toxic for reproduction PBT vPvB Equivalent level of concern having probable serious effects to human health Equivalent level of

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
					concern having probable serious effects to the environment
227	Melamine	108-78-1	ND	0.01	Equivalent level of concern having probable serious effects to human health Equivalent level of concern having probable serious effects to the environment
228	Isobutyl 4-hydroxybenzoate	4247-02-3	ND	0.01	Endocrine disrupting properties
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	ND	0.01	vPvB
230	Barium diboron tetraoxide	13701-59-2	ND	0.01	Toxic for reproduction
231	4,4'-sulphonyldiphenol	80-09-1	ND	0.01	Toxic for reproduction Endocrine disrupting properties
232	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	ND	0.01	Carcinogenic
233	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	ND	0.01	vPvB

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 Future 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 and

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Cadmium Respectively)

5. *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.
6. *³ Calculated From Tributyltin(TBT) Content.
7. *⁴ Dibutyltin Dichloride (DBTC) Concentration Is Based On The GC/MS Result Of Dibutyltin (DBT).
8. *⁵ Calculated From Dioctyltin Dichloride(DOT) Content.
9. *⁶ Calculated From Monooctyltin-Trichloride(MOT) Content.
10. *⁷ 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
Category 1: Substances Known To Be Carcinogenic To Man. There Is Sufficient Evidence To Establish A Causal Association Between Human Exposure To A Substance And The Development Of Cancer.

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

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Toxic To Reproduction Category 2: Substances Which Should Be Regarded As If They Impair Fertility In Humans. There Is Sufficient Evidence 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

PBT & vPvB: Substances Which Are Persistent, Bioaccumulative And Toxic (PBT) Or Very Persistent 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 Reliability.

***** End of Page *****

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Two Hundred And Thirty-Three (233) 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

Acid Digestion, Analysis Performed By ICP-AES and/or ICP-MS; And Solvent Extraction, Analysis Performed By GC/MS, GC/ECD and/or LC-MS-MS (In-House Method)

Sample 042+043+044+045

No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
1	4,4'-Diaminodiphenylmethane	101-77-9	NA	0.01	Carcinogen category 2
2	5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	NA	0.01	vPvB
3	Alkanes, C10-13 chloro (short chain chlorinated paraffins, SCCP)	85535-84-8	NA	0.01	PBT
4	Anthracene	120-12-7	NA	0.01	PBT
5	Diarsenic pentaoxide* ¹	1303-28-2	ND	0.01	Carcinogen category 1
6	Diarsenic trioxide* ¹	1327-53-3	ND	0.01	Carcinogen category 1
7	Bis(2-ethylhexyl)phthalate(DEHP)	117-81-7	NA	0.01	Toxic to reproduction category 2
8	Bis(tributyltin)oxide (TBTO)* ³	56-35-9	NA	0.01	PBT
9	Benzyl butyl phthalate (BBP)	85-68-7	NA	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	NA	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)	NA	0.01	PBT
13	Lead hydrogen arsenate* ¹	7784-40-9	ND	0.01	Carcinogen category 1;toxic to reproduction category 1
14	Sodium dichromate* ¹	7789-12-0 10588-01-9	ND	0.01	Carcinogen category 2;mutagen category 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	NA	0.01	PBT, vPvB, Carcinogen category 2

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Sample 042+043+044+045					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
17	Anthracene oil, anthracene paste, distn. Lights* ²	91995-17-4	NA	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
18	Anthracene oil, anthracene paste, anthracene fraction* ²	91995-15-2	NA	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
19	Anthracene oil, anthracene-low* ²	90640-82-7	NA	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
20	Anthracene oil, anthracene paste* ²	90640-81-6	NA	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
21	Pitch, coal tar, high temp.* ²	65996-93-2	NA	0.01	PBT, vPvB, Carcinogen category 2
22	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	NA	0.01	Toxic to reproduction category 2
23	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	NA	0.01	Carcinogen category 2
24	Diisobutyl phthalate (DIBP)	84-69-5	NA	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	NA	0.01	Carcinogen category 2, mutagen category 2
29	Trichloroethylene	79-01-6	NA	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

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
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	NA	0.01	Toxic to reproduction
42	2-Ethoxyethanol	110-80-5	NA	0.01	Toxic to reproduction
43	Chromium trioxide* ¹	1333-82-0	ND	0.01	Carcinogenic and mutagenic
44	Acids generated from chromium trioxide and their oligomers * ¹ Group containing: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 -- 13530-68-2	ND	0.01	Carcinogenic
45	2-ethoxyethyl acetate	111-15-9	NA	0.01	Toxic for reproduction
46	Strontium chromate* ¹	7789-06-2	ND	0.01	Carcinogenic
47	1,2-Benzenedicarboxylic acid, di-C7-11-	68515-42-4	NA	0.01	Toxic for reproduction

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	branched and linear alkyl esters (DHNUP)				
48	Hydrazine	302-01-2 7803-57-8	NA	0.01	Carcinogenic
49	1-methyl-2-pyrrolidone	872-50-4	NA	0.01	Toxic for reproduction
50	1,2,3-trichloropropane	96-18-4	NA	0.01	Carcinogenic and toxic for reproduction
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	NA	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	NA	0.01	Carcinogenic
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	NA	0.01	Toxic for reproduction
59	2-Methoxyaniline;o-Anisidine	90-04-0	NA	0.01	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	NA	0.01	Equivalent level of concern having probable serious effects to the environment
61	1,2-Dichloroethane	107-06-2	NA	0.01	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	NA	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	NA	0.01	Toxic for reproduction
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	NA	0.01	Carcinogenic
68	Phenolphthalein	77-09-8	NA	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

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	NA	0.01	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	NA	0.01	Toxic for reproduction
74	Diboron trioxide* ¹	1303-86-2	ND	0.01	Toxic for reproduction
75	Formamide	75-12-7	NA	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	NA	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	NA	0.01	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	NA	0.01	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	NA	0.01	Carcinogenic
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	NA	0.01	Carcinogenic
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	NA	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	NA	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	NA	0.01	Carcinogenic
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	NA	0.01	PBT;vPvB
86	Pentacosfluorotridecanoic acid	72629-94-8	NA	0.01	vPvB
87	Tricosfluorododecanoic acid	307-55-1	NA	0.01	vPvB
88	Henicosfluoroundecanoic acid	2058-94-8	NA	0.01	vPvB

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
89	Heptacosafuorotetradecanoic acid	376-06-7	NA	0.01	vPvB
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	NA	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	NA	0.01	Equivalent level of concern having probable serious effects to human health
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	NA	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]	-	NA	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]	-	NA	0.01	Equivalent level of concern having probable serious effects to the environment
95	Methoxyacetic acid	625-45-6	NA	0.01	Toxic for reproduction
96	N,N-dimethylformamide	68-12-2	NA	0.01	Toxic for reproduction
97	Dibutyltin dichloride (DBT)*4	683-18-1	NA	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

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
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 (H ₂ SiO ₅), barium salt (1:1), lead-doped * ¹ [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]	68784-75-8	ND	0.01	Toxic for reproduction
106	1-bromopropane (n-propyl bromide)	106-94-5	NA	0.01	Toxic for reproduction
107	Methyloxirane (Propylene oxide)	75-56-9	NA	0.01	Carcinogenic; mutagenic
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	NA	0.01	Toxic for reproduction
109	Diisopentylphthalate (DIPP)	605-50-5	NA	0.01	Toxic for reproduction
110	N-pentyl-isopentylphthalate	776297-69-9	NA	0.01	
111	1,2-diethoxyethane	629-14-1	NA	0.01	
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 cyanamide* ¹	20837-86-9	ND	0.01	Toxic for reproduction
118	Lead dinitrate* ¹	10099-74-8	ND	0.01	Toxic for reproduction

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
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
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	NA	0.01	Carcinogenic
126	Diethyl sulphate	64-67-5	NA	0.01	Carcinogenic; mutagenic
127	Dimethyl sulphate	77-78-1	NA	0.01	Carcinogenic
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	NA	0.01	Toxic for reproduction
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	NA	0.01	Toxic for reproduction
130	4,4'-methylenedi-o-toluidine	838-88-0	NA	0.01	Carcinogenic
131	4,4'-oxydianiline and its salts	101-80-4	NA	0.01	Carcinogenic; mutagenic
132	4-aminoazobenzene	60-09-3	NA	0.01	Carcinogenic
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	NA	0.01	Carcinogenic
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	NA	0.01	Carcinogenic
135	Biphenyl-4-ylamine	92-67-1	NA	0.01	Carcinogenic
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)	97-56-3	NA	0.01	Carcinogenic
137	o-toluidine	95-53-4	NA	0.01	Carcinogenic
138	N-methylacetamide	79-16-3	NA	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	NA	0.01	Toxic for reproduction
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	NA	0.01	Toxic for reproduction
143	Dipentyl phthalate (DPP)	131-18-0	NA	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]	-	NA	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	NA	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	NA	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	NA	0.01	Carcinogenic
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	NA	0.01	Toxic for reproduction
150	Lead di(acetate) * ¹	301-04-2	ND	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	NA	0.01	Toxic for reproduction
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear* ⁷	68515-50-4	NA	0.01	Toxic for reproduction

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
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	NA	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	NA	0.01	Toxic for Reproduction
160	2-(2H-benzotriazol-2-yl)-4,6-diterpentyphenol (UV-328)	25973-55-1	NA	0.01	PBT; vPvB
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-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)	-	NA	0.01	Toxic for Reproduction
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	NA	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	-	NA	0.01	vPvB

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	individual stereoisomers of [1] and [2] or any combination thereof]				
164	Nitrobenzene	98-95-3	NA	0.01	Toxic for reproduction
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	NA	0.01	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	NA	0.01	vPvB
167	1,3-propanesultone	1120-71-4	NA	0.01	Carcinogenic
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	NA	0.01	Toxic for reproduction; PBT
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	NA	0.01	Carcinogenic Mutagenic Toxic for reproduction PBT vPvB
170	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	NA	0.01	Toxic for reproduction Endocrine disrupting properties
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Decanoic acid, nonadecafluoro-, sodium salt CAS no.: 3830-45-3	-	NA	0.01	Toxic for reproduction PBT
	Ammonium nonadecafluorodecanoate CAS no.: 3108-42-7	-	NA	0.01	
	Nonadecafluorodecanoic acid CAS no.: 335-76-2	-	NA	0.01	
172	p-(1,1-dimethylpropyl)phenol	80-46-6	NA	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	-	NA	0.01	Equivalent level of concern having probable serious effects to environment
174	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	NA	0.01	vPvB

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	NA	0.01	vPvB
176	Benz[a]anthracene	56-55-3	NA	0.01	Carcinogenic PBT vPvB
177	Cadmium carbonate* ¹	513-78-0	ND	0.01	Carcinogenic Mutagenic Specific target organ toxicity after repeated exposure
178	Cadmium hydroxide* ¹	21041-95-2	ND	0.01	Carcinogenic Mutagenic Specific target organ toxicity after repeated exposure
179	Cadmium nitrate* ¹	10325-94-7	ND	0.01	Carcinogenic Mutagenic Specific target organ toxicity after repeated exposure
180	Chrysene	218-01-9	NA	0.01	Carcinogenic PBT vPvB
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	NA	0.01	Endocrine disrupting properties
182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7	NA	0.01	Respiratory sensitising properties
183	Dicyclohexyl phthalate (DCHP)	84-61-7	NA	0.01	Toxic for reproduction Endocrine disrupting properties
184	Benzo[ghi]perylene	191-24-2	NA	0.01	PBT vPvB
185	Decamethylcyclopentasiloxane (D5)	541-02-6	NA	0.01	PBT vPvB
186	Disodium octaborate	12008-41-2	ND	0.01	Toxic for reproduction
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	NA	0.01	PBT vPvB
188	Ethylenediamine (EDA)	107-15-3	NA	0.01	Respiratory sensitising properties

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
189	Lead	7439-92-1	ND	0.01	Toxic for reproduction
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	NA	0.01	PBT vPvB
191	Terphenyl hydrogenated	61788-32-7	NA	0.01	vPvB
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	NA	0.01	Endocrine disrupting properties
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	NA	0.01	Toxic for reproduction
194	Benzo[k]fluoranthene	207-08-9	NA	0.01	Carcinogenic PBT vPvB
195	Fluoranthene	206-44-0; 93951-69-0	NA	0.01	PBT vPvB
196	Phenanthrene	85-01-8	NA	0.01	vPvB
197	Pyrene	129-00-0; 1718-52-1	NA	0.01	PBT vPvB
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	NA	0.01	Endocrine disrupting properties
199	4-tert-butylphenol	98-54-4	NA	0.01	Endocrine disrupting properties
200	2-methoxyethyl acetate	110-49-6	NA	0.01	Toxic for reproduction
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	NA	0.01	Equivalent level of concern having probable serious effects to human health Equivalent level of concern having probable serious effects to the environment
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	NA	0.01	Toxic for reproduction
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	NA	0.01	Toxic for reproduction
204	Diisohexyl phthalate	71850-09-4	NA	0.01	Toxic for reproduction
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	NA	0.01	Equivalent level of concern having probable serious

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
					effects to human health Equivalent level of concern having probable serious effects to the environment
206	1-vinylimidazole	1072-63-5	NA	0.01	Toxic for reproduction
207	2-methylimidazole	693-98-1	NA	0.01	Toxic for reproduction
208	butyl 4-hydroxybenzoate	94-26-8	NA	0.01	Endocrine disrupting properties
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	NA	0.01	Toxic for reproduction
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	NA	0.01	Toxic for reproduction
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	NA	0.01	Toxic for reproduction
212	1,4-dioxane	123-91-1	NA	0.01	Carcinogenic Equivalent level of concern having probable serious effects to human health Equivalent level of concern having probable serious effects to the environment
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	NA	0.01	Carcinogenic
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	NA	0.01	Toxic for reproduction
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	NA	0.01	Endocrine disrupting properties
216	glutaral	111-30-8	NA	0.01	Respiratory sensitising properties

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
217	Medium-chain chlorinated paraffins (MCCP)	-	NA	0.01	PBT vPvB
218	orthoboric acid, sodium salt ¹	-	ND	0.01	Toxic for reproduction
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	-	NA	0.01	Toxic for reproduction Endocrine disrupting properties
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	NA	0.01	Endocrine disrupting properties
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	NA	0.01	Toxic for reproduction
222	S-(tricyclo(5.2.1.0 ² .6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	NA	0.01	PBT
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	NA	0.01	Toxic for reproduction
224	N-(hydroxymethyl)acrylamide	924-42-5	NA	0.01	Carcinogenic Mutagenic
225	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	NA	0.01	vPvB
226	Perfluoroheptanoic acid and its salts	-	NA	0.01	Toxic for reproduction PBT vPvB Equivalent level of concern having probable serious effects to human health Equivalent level of concern having probable serious effects to the environment

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
227	Melamine	108-78-1	NA	0.01	Equivalent level of concern having probable serious effects to human health Equivalent level of concern having probable serious effects to the environment
228	Isobutyl 4-hydroxybenzoate	4247-02-3	NA	0.01	Endocrine disrupting properties
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	NA	0.01	vPvB
230	Barium diboron tetraoxide	13701-59-2	ND	0.01	Toxic for reproduction
231	4,4'-sulphonyldiphenol	80-09-1	NA	0.01	Toxic for reproduction Endocrine disrupting properties
232	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	NA	0.01	Carcinogenic
233	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	NA	0.01	vPvB

Remark:

12. Definition Of Classification Is Listed In Appendix A Of This Report In Accordance With 67/548/EEC And Regulation(EC) NO 1907/2006
13. ND=Not Detected(Lower Than Reporting Limit)
14. In Case SVHC <0.1% For Articles "No Future 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".
15. *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 and Cadmium Respectively)
16. *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

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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.

17. *3 Calculated From Tributyltin(TBT) Content.
18. *4 Dibutyltin Dichloride (DBTC) Concentration Is Based On The GC/MS Result Of Dibutyltin (DBT).
19. *5 Calculated From Dioctyltin Dichloride(DOT) Content.
20. *6 Calculated From Monooctyltin-Trichloride(MOT) Content.
21. *7 If Detected, The Sample Contains The Mixture Of Dihexyl Phthalate.
22. # 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 Category 1:	<u>Substances Known To Be Carcinogenic To Man.</u> There Is Sufficient Evidence To Establish A Causal Association Between Human Exposure To A Substance And The Development Of Cancer.
Carcinogen Category 2:	<u>Substances Which Should Be Regarded As If They Are Carcinogenic To Man.</u> There Is Sufficient Evidence To Provide A Strong Presumption That Human Exposure To A Substance May Result In The Development Of Cancer. Generally On The Basis Of: Appropriate Long-Term Animal Studies Other Relevant Information
Mutagen Category 1:	<u>Substances Known To Be Mutagenic To Man.</u> There Is Sufficient Evidence To Establish A Causal Association Between Human Exposure To A Substance And Heritable Genetic Damage
Mutagen Category 2:	<u>Substances Which Should Be Regarded As If They Are Mutagenic To Man.</u> 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:	<u>Substances Known To Impair Fertility In Humans.</u> There Is Sufficient Evidence To Establish A Causal Relationship Between Human Exposure To The Substance And Impaired Fertility. <u>Substances Known To Cause Developmental Toxicity In Humans.</u> 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:	<u>Substances Which Should Be Regarded As If They Impair Fertility In Humans.</u> There Is Sufficient Evidence To Provide A Strong Presumption That Human Exposure To The Substance May Result In Impaired Fertility On The Basis Of:

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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

PBT & vPvB:

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

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上海市徐汇区平福路 188 号漕河泾开发区聚鑫园 1 幢 1 层 & 2 层 & 3 层, 3 幢 103 室

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ADF-001 (2018-09-18)



TEST REPORT

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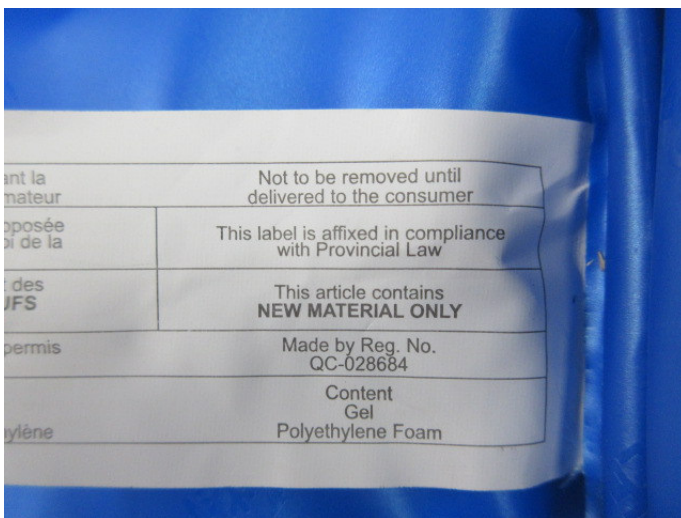
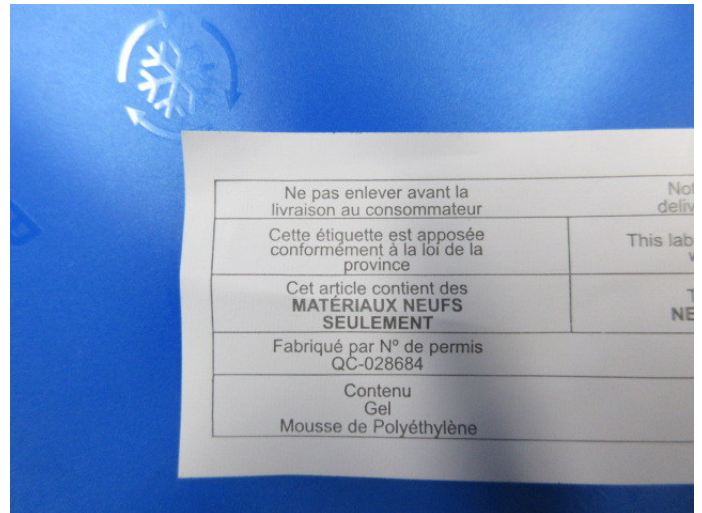
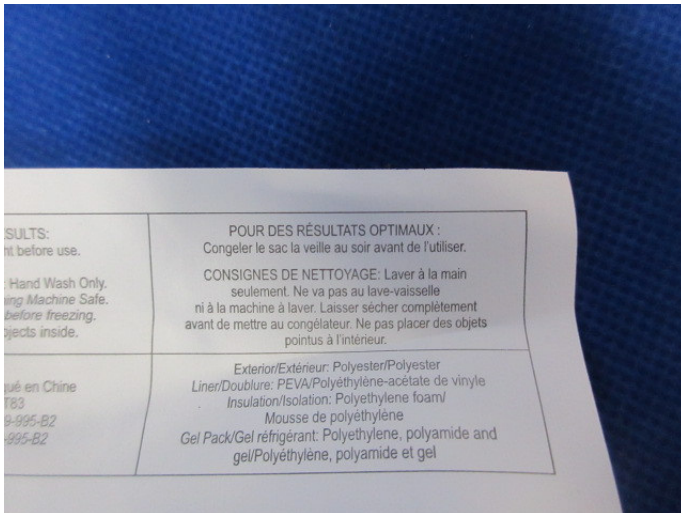


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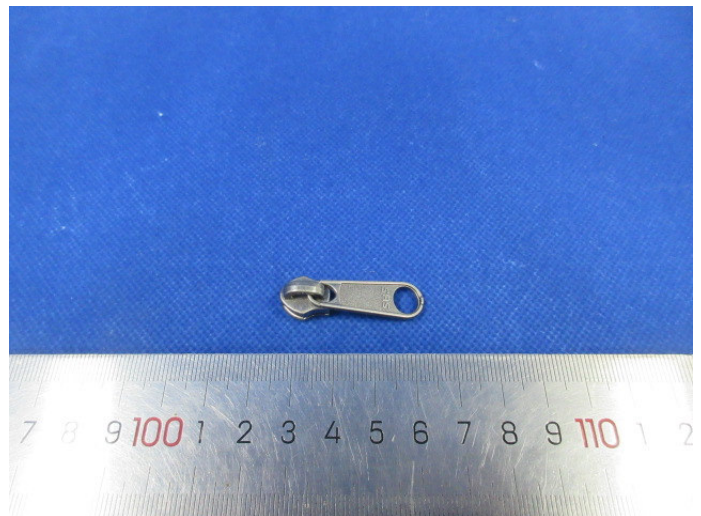
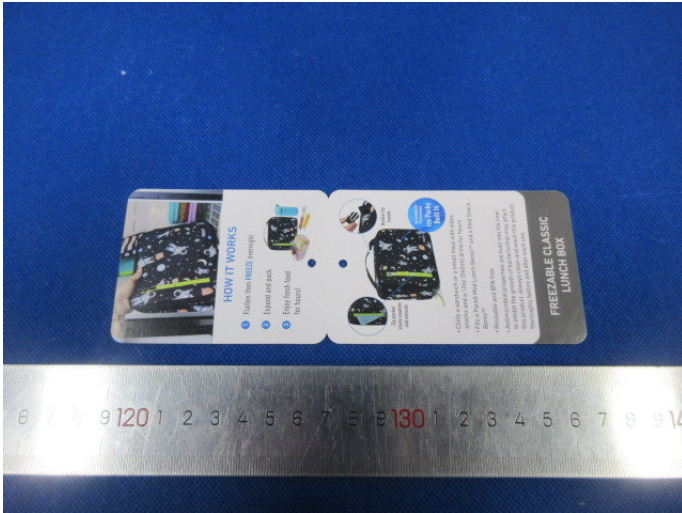


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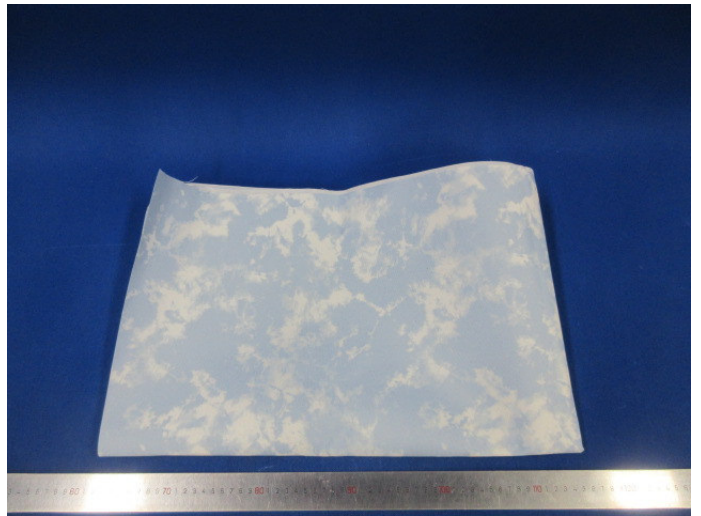
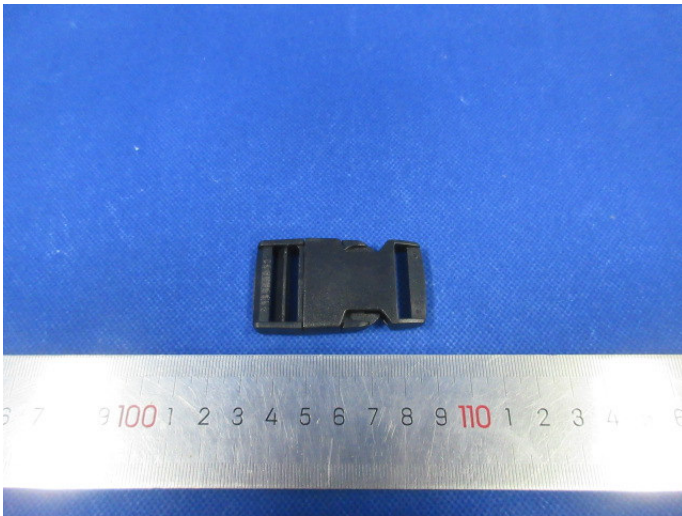


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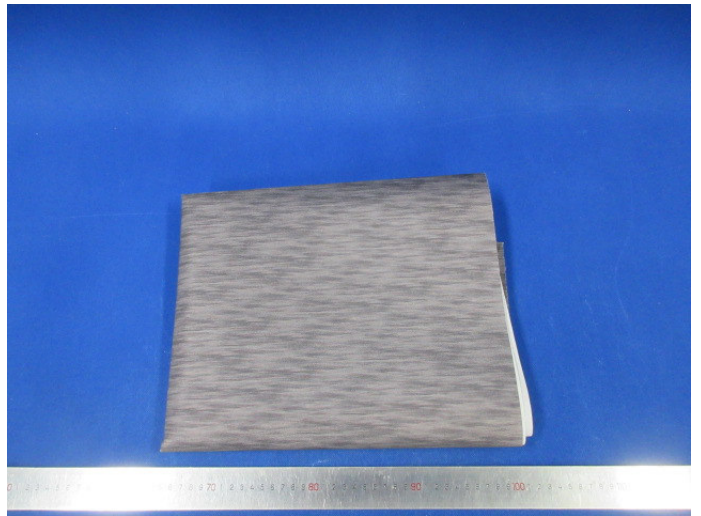
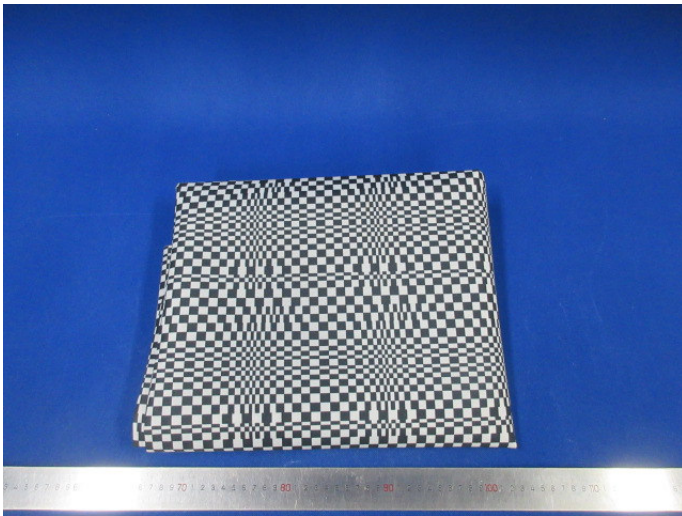


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- Retailer Programs.** If you request us to test compliance with retailer, carrier or other third party program ("Retailer") by requesting Services under the Retailer's program, you consent to our disclosure of all associated information, materials, and deliverables to such Retailer and acknowledge that, notwithstanding any terms to the contrary in these Terms and Conditions, the ownership of the deliverables for the Services will be in accordance with the Retailer's program.
- Payment Terms.** You will pay, without set off, our fees and related expenses in accordance with the Quotation including the cost of all taxes, wire or transfer fees, duties, and other fiscal charges which become due on the quoted price and will indemnify us from and against liabilities, incurred as a result of failure to pay any such sums when they become due. We may charge interest at 1% per month (12% per year), or the maximum legal rate if less than 1.0% per month, from the due date until paid fully. You agree to pay reasonable collection costs, including attorneys' fees, if necessary, in the event of late or non-payment.
- Your Requirements.** You are responsible for establishing or selecting all Your Requirements that we will use in performing the Services. We may provide you with assistance in developing Your Requirements that meet your needs, however, in all cases you must review and approve Your Requirements to be used in performing the Services.
- Estimated Schedule and Price.** Any time schedule and pricing terms set forth in this Quotation are estimates only and subject to change upon reasonable notice from us depending upon the specific project.
- On-Site Investigations.** If we perform Services on site at your facilities, or at the facilities of other parties as directed by you; you will ensure that our representatives have safe, secure, and free access to the facilities. Our access will not be conditioned upon the execution of any agreement, waiver, or release. If our representatives are prevented from performing or completing any Services for any reason beyond our reasonable control, we will not be responsible for the nonperformance, and you may be charged for any actual expenses we incur and fees for Services performed.
- 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 report on any facts or circumstances which are outside your specific instructions received and accepted by us.
- Our Findings.** We do not guarantee that our opinions or findings will be recognized or accepted by third parties.
- Use 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 otherwise.
- Cancellation Fees.** If you cancel or change a Quotation: (i) for an inspection after 3:00 PM of the working day before the scheduled inspection date, we will charge you the Quotation price plus any travel costs incurred before the cancellation; (ii) for testing after we receive the sample(s) at the testing facility, we will charge you cancellation fees according to the amount of actual work performed with a minimum cancellation fee of \$100 USD; or (iii) for a scheduled audit date, you will be responsible for all incurred non-refundable travel costs associated with that audit. Any change or cancellation of an audit that occurs within 7 days of the scheduled audit will be charged a \$600 USD fee in addition to any incurred travel costs.
- No Warranty.** NO REPRESENTATION, WARRANTY, OR GUARANTEE, EXPRESS OR IMPLIED, IS INCLUDED IN THESE TERMS AND CONDITIONS, OR IN ANY QUOTATION, REPORT, OR OTHER DOCUMENT PROVIDED UNDER THESE TERMS AND CONDITIONS INCLUDING, BUT NOT LIMITED TO: (i) ANY "IMPLIED WARRANTY OF MERCHANTABILITY" OR "FITNESS FOR A PARTICULAR PURPOSE", (ii) NON-INFRINGEMENT, AND (iii) THAT THE WEB SERVICES (AS DEFINED BELOW) WILL BE UNINTERRUPTED, TIMELY, SECURE, OR ERROR-FREE.
- 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 licensed by you, and does not infringe 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.
- Ownership of Work Product.** You will own the test reports or other materials provided to you pursuant to any Quotation. 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.
- 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 and agree that no data or content transmitted over our networks, the Internet, or wirelessly, or through or in connection with the Web Services, is guaranteed to be secure or free from unauthorized intrusion, and that data stored by us, our affiliates, or our service providers may be deleted, modified, or damaged. You acknowledge that if you wish to protect your transmission of data or files to us, it is your responsibility to use a secure encrypted connection to communicate with and use the Web Services. Your use of the Web Services is at your sole risk and is subject to any terms of use applicable to such Web Services. Web Services are included in the definition of Services above.
- 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 breach 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 us or our affiliates pursuant to another agreement with you.
- 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 sample(s), for which we will not be liable.
- 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. UNDER 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 CIRCUMSTANCE WILL WE BE LIABLE TO YOU FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE UNLESS SUCH CLAIM IS BROUGHT UNDER SECTION 25 (DISPUTES) WITHIN TWELVE MONTHS AFTER THE DATE OF THE PERFORMANCE BY US OF THE SERVICES WHICH GIVE RISE TO THE CLAIM OR, IN THE EVENT OF ANY ALLEGED NON-PERFORMANCE, WITHIN TWELVE MONTHS OF THE DATE WHEN SUCH SERVICES SHOULD HAVE BEEN COMPLETED.
- 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 performance or non-performance of any Services or the Web Services.
- 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 governs these Terms and Conditions pursuant to Section 24 (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 53B) 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 class, or as answering a particular description.
- No 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 affiliates or subsidiaries.
- 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.
- Termination and Notice.** These Terms and Conditions will continue in effect until terminated by either party upon thirty days written notice or, in the event of your breach of these Terms and Conditions, immediately upon receipt of written notice to you. You will pay those fees and expenses incurred by us prior to termination. Notice to either party may be made by hand delivery, courier service, mail, facsimile, or e-mail transmission at the receiving party's designated principal place of business. Notice to us must be sent both to: UL Verification Services Pte. Ltd, Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253 with a copy to UL LLC, Attn.: General Counsel at 333 Pfingsten Road, Northbrook, Illinois 60062. Notice will be effective upon receipt.
- Governing Law:** These Terms and Conditions will be governed and interpreted by the laws of the State of Illinois, United States of America, except if: (i) UL Contracting Party's principal place of business is Asia, Australia, or New Zealand, then Singapore law, and (ii) UL Contracting Party's principal place of business is Europe, then Swiss law, without reference to the applicable jurisdiction's choice of law principles.
- Disputes.** Any dispute or disagreement, other than nonpayment of fees, relating to these Terms and Conditions or the Services, will be settled by confidential, binding arbitration administered by the International Centre for Dispute Resolution of the American Arbitration Association ("AAA") pursuant to the AAA Commercial Arbitration Rules and the Procedures for Large, Complex Commercial Disputes. The arbitration venue will be Chicago, Illinois, except if: (i) UL Contracting Party's principal place of business is in Europe, the venue will be Geneva, Switzerland, and (ii) UL Contracting Party's principal place of business is in Asia, Australia, or New Zealand, the venue will be Singapore, Republic of Singapore. The arbitration will be conducted before a panel of three (3) arbitrators. The arbitration panel will be selected as follows: the parties will request a list of ten (10) arbitrators drawn from the AAA's panel of commercial arbitrators (who are experienced in and familiar with the AAA's Procedures for Large, Complex Commercial Disputes). From this list, both parties will each choose one arbitrator. After they have been notified of their panel selection, the two (2) arbitrators will agree on a third arbitrator from the list of ten (10), who will be the chair of the panel, and the panel will be final. The decision of the majority of the arbitrators will be the panel's decision. The arbitrators will not have the authority to add, change, or disregard any term of these Terms and Conditions to award incidental, consequential, or punitive damages (including, but not limited to, loss of use, unjust enrichment, and/or lost profits), or exceed the remedies provided by the limitation of liability of these Terms and Conditions. The panel's decision will be binding and judgment on the arbitration award may be entered by a court of competent jurisdiction. Arbitration will be the final remedy for any dispute between the parties arising out of these Terms and Conditions, provided, however, that nothing herein will prevent either party from seeking a court order for injunctive relief (in addition to other remedies) to stop or prevent misuse or misappropriation of its marks, confidential or proprietary information, or infringement of its intellectual property, in a court of law. All arbitrations will be conducted in English.
- 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.
- 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 on your requests for quotation, purchase orders, invoices, sales or marketing materials, emails, 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 accepted by us in a written or emailed confirmation from us are not accepted by us, and commencement of performance will not signify acceptance by us of any such modifications. Any such modifications are excluded from our agreement, and such modifications will not be a binding agreement on us.
- Order of Precedence.** 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.
- Electronic Signature.** These Terms and Conditions may be executed and delivered by facsimile, PDF, or by means of other electronic signature. Our electronic, digital, or hard copies of these Terms and Conditions, your acceptance, and Quotations as signed, or otherwise accepted, by you will be the true, complete, valid, authentic, and enforceable copies of these documents. You agree that you will not contest the admissibility or enforceability of our copies in a court or any proceeding arising out of such documents.
- 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 reasonably be circumvented; (iii) and the party hindered or delayed immediately notifies the other party describing the circumstance causing delay.