

The following sample(s) was/were submitted and identified on behalf of the client as:

Manufacturer : SHENDAI
Country of Destination : EU
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : Jun 08, 2018
Test Performing Date : Jun 08, 2018 to Jul 17, 2018
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
Guangzhou Branch
SGS-CSTC Ltd.

Shiny Hu
Approved Signatory



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I . SGS Ref No.: CAN18-114225; CAN18-139943; CAN18-142022

No.	Test Item	limit	EU	Comments	Remark
1.0	(i) One hundred and ninety one (191) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning the REACH	<0.1% (1000 mg/kg) related to defined component	X	PASS	
2.0	Azo Dyes (prolonged skin contact)	20 mg/kg for all 24 amines	X	PASS	
3.0	Total Cadmium (Cd)	40 mg/kg	X	PASS	
4.0	Phthalates (accessible items only)	0.1% (1000 mg/kg) for sum of 3 Phthalates (DEHP, BBP, DBP) 0.1% (1000 mg/kg) for sum of 3 Phthalates (DNOP, DINP, DIDP) 0.05% (500 mg/kg) for sum of 13 Phthalates (DiBP, DHNUP, DIHP, DMEP, DPP, DiPP, iPnPP, DPP, DnHP, DHP, DC6-10P, DCHP, DPHP)	X	PASS	
5.0	Substitutes for Phthalates (as per 4.0)	0.1% (1000 mg/kg) of each substitute: DEHA, ATBC, DOTP, DINCH, DINA	X	PASS	
6.0	Tin organic compounds	TBT, TPhT, TPT, TOT, TCyT: 0.5 mg/kg; DBT, DOT, DMT DPT, DPhT, MBT, MOT, MMT, TeBT, TMT: 1.0 mg/kg	X	PASS	
7.0	Nickel release (Prolonged skin contact)	0.5 µg/cm ² /week	X	NA	
8.0	PFOS, PFOA	PFOA, PFOS: 1µg/m ² PFHpA, PFNA, PFDA, PFUdA, PFDoA, PFTrDA, PFTeDA: 0,05 mg/kg	X	PASS	



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9.0	Alkylphenols (NP,OP)	100 mg/kg 10 mg/kg (textiles)	X	PASS	
10.0	Alkylphenoethoxylates (NPEO,OPEO)	100 mg/kg	X	PASS	
11.0	Toluene, Trichlorobenzene, Ethylbenzene	50 mg/kg	X	NA	
12.0	Dimethyl Fumarate (DMFu)	<0.1 mg/kg	X	NA	
13.0	Chromium VI (accessible items only)	< 3 mg/kg	X	NA	
14.0	Chlorinated phenols	0.05 mg/kg for PCP; 0.05 mg/kg for TeCP; 0.20 mg/kg for TriCP 0.50 mg/kg for DiCP 0.50 mg/kg for MCP	X	PASS	
15.0	Carcinogenic dyes (accessible items only)	3.3 mg/l	X	PASS	
16.0	Allergenic/sensitizing disperse dyes +Disp.Yellow 23 (accessible items only)	3.3 mg/l	X	PASS	
19.0	PAHs (Prolonged skin contact contact items only: Shoulder pads, belts, textiles, foam, warning labels, heat transfers, plastics)	According to AfPS, Cat 1: Benzo[a]pyrene, Benzo[e]pyrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Benzo[ghi]perylene, Indeno[1,2,3-cd]pyrene < 0,2 mg/kg (each); Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene,Anthracene, Fluoranthene < 1.0 mg/kg (sum); Naphthalene < 1.0 mg/kg; sum of all 18 GS PAH < 1.0 mg/kg	X	PASS	
19.1	PAHs (accessible items only: textile incl. heat transfers, warning labels)	0,2 mg/kg (each of GS 18 PAH) Prints (heat transfers): if 0.2 < GS PAH <0.5 mg/kg textile: < 0.2 mg/kg (each of 18 GS PAH) and print: < 0.5 mg/kg (each of 18	X	PASS	



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		GS PAH) Additional requirement: Sum of 10 STIWA PAH < 1.0 mg/kg (based on Stiwa)			
19.2	PAHs (accessible items only, all others and elastic bands)	According to AfPS, Cat 1: Benzo[a]pyrene, Benzo[e]pyrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Benzo[ghi]perylene, Indeno[1,2,3-cd]pyrene < 0,2 mg/kg (each); Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene < 1.0 mg/kg (sum); Naphthalene < 1.0 mg/kg; sum of all 18 GS PAH < 1.0 mg/kg Additional requirement: Sum of 10 STIWA PAH < 1.0 mg/kg (based on Stiwa)	X	PASS	
20.0	Formaldehyde (accessible items only)	Textile with direct skin contact: baby 16 mg/kg, others 75 mg/kg	X	PASS	
21.0	pH value (Prolonged skin contact)	Textile: 4.0 - 7.5 Leather: 3.5 - 7.5	X	PASS	
22.0	Metal migration (access zone items only)	Has to comply with standard for 18 metals, except Barium 1000 mg/kg (based on GB requirements)	X	PASS	
22.1	Metal migration (accessible items only)	GB 6675.1 ISO 8124.3 AS/NZS ISO 8124.3 Toy Safety Standard ST 2016 KSR 4053 CNS 4797-2	-	NA	



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23.0	Flame retardants (access zone items only)	<5 mg/kg	X	PASS	
23.1	Flame retardants (access zone items only)	<5 mg/kg	X	PASS	
24.0	Chlorinated organic carrier	1 mg/kg	X	PASS	
25.0	Formamide	Formamide content: 200mg/kg Formamide Emission: 20ug/m3	X	NA	
26.0	Total Lead (Pb) (accessible items only)	90 mg/kg	X	PASS	
27.0	Short chain chlorinated paraffins (SCCP) C10-C13 Medium chain chlorinated paraffins (MCCP) C14-C17	1000 mg/kg	X	NA	
30.0	Bisphenol A (BPA) (Prolonged skin contact or taken in mouth by child)	0.04 mg/L for migration limit	X	PASS	
34.0	Methylenediphenyl diisocyanate (MDI)	1000 mg/kg	X	PASS	
35.0	Dimethylformamide	1000 mg/kg	X	PASS	

Remark: NA = Not Applicable

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-114225.001 CAN18-139943	Brown leatheroid with black fabric backing
SN2	CAN18-142022.002	Brown leatheroid with black fabric backing

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated



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2.0 Azodyes

Test Method:

According to EN 14362-1:2012 – Analysis was conducted with GC-MS/HPLC-DAD.

No. Forbidden Amines Substances	CAS-No.	Unit	001	MDL	Limit
4-Aminodiphenyl / xenylamine/Biphenyl-4-ylamine	92-67-1	mg/kg	ND	5	20
Benzidine	92-87-5	mg/kg	ND	5	20
4-Chloro- <i>o</i> -toluidine	95-69-2	mg/kg	ND	5	20
2-Naphthylamine	91-59-8	mg/kg	ND	5	20
<i>o</i> -Aminoazotoluene / 4- <i>o</i> -tolylazo- <i>o</i> -toluidine / 4-amino-2',3-dimethylazobenzene	97-56-3	mg/kg	ND	5	20
2-Amino-4-nitrotoluol / 5-nitro- <i>o</i> -toluidine	99-55-8	mg/kg	ND	5	20
<i>p</i> -Chloranilin / 4-chloroaniline	106-47-8	mg/kg	ND	5	20
2,4-Diaminoanisol /4-methoxy- <i>m</i> -phenylenediamine	615-05-4	mg/kg	ND	5	20
4,4'-Diaminodiphenylmethane /4,4-methylenedianiline	101-77-9	mg/kg	ND	5	20
3,3'-Dichlorobenzidine / 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	mg/kg	ND	5	20
3,3'-Dimethoxybenzidine / <i>o</i> -dianisidine	119-90-4	mg/kg	ND	5	20
3,3'-Dimethylbenzidine / 4,4'-bi- <i>o</i> -Toluidine	119-93-7	mg/kg	ND	5	20
4,4'-methylenedi- <i>o</i> -toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	ND	5	20
<i>p</i> -Cresidin / 6-methoxy- <i>m</i> -toluidine	120-71-8	mg/kg	ND	5	20
4,4'-Methylene-bis-(2-chloro-aniline) / 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	mg/kg	ND	5	20
4,4'-Oxydianiline	101-80-4	mg/kg	ND	5	20
4,4'-Thiodianiline	139-65-1	mg/kg	ND	5	20
<i>o</i> -Toluidine / 2-aminotoluene	95-53-4	mg/kg	ND	5	20
2,4-Toluyldiamine /4-methyl- <i>m</i> -phenylenediamine	95-80-7	mg/kg	ND	5	20
2,4,5-Trimethylaniline	137-17-7	mg/kg	ND	5	20
4-Aminoazobenzene	60-09-3	mg/kg	ND	5	20
<i>o</i> -Anisidine / 2-methoxyaniline	90-04-0	mg/kg	ND	5	20
2,4-Xylidine	95-68-1	mg/kg	ND	5	20
2,6-Xylidine	87-62-7	mg/kg	ND	5	20

Notes :

- (1) Test specimen was taken randomly from the sample submitted by client/applicant.
- (2) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphthylamine (CAS number 91-59-8) and 4-methoxy-*m*-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.



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- (3) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (4) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

3.0 Cadmium (Cd)

Test Method: With reference to EN1122: 2001 method B. Analysis was performed by ICP-OES.

Test Item	CAS No.	Unit	001	MDL	Limit
Cadmium (Cd)	7440-43-9	mg/kg	ND	5	40

4.0 Phthalates

Test Method: With reference to ISO 14389: 2014, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit	001	MDL	Limit
Ratio★	-	%(w/w)		-	-
Diisononyl Phthalate (DINP)	28553-12-0 and 68515-48-0	%(w/w)	ND	0.005	-
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	ND	0.003	-
Diisodecyl Phthalate (DIDP)	26761-40-0 and 68515-49-1	%(w/w)	ND	0.005	-
Sum of (DINP, DNOP, DIDP)	-	%(w/w)	ND	-	0.1
Di-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	ND	0.003	-
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	ND	0.003	-
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	ND	0.003	-
Sum of (DEHP, BBP, DBP)	-	%(w/w)	ND	-	0.1
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	ND	0.003	-
Di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	ND	0.005	-
Di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%(w/w)	ND	0.005	-
Bis-methoxyethyl Phthalate (DMEP)	117-82-8	%(w/w)	ND	0.003	-
1,2-Benzenedicarboxylic acid,dipentyl ester,branched and linear(DPP)	84777-06-0	%(w/w)	ND	0.005	-
Diisopentylphthalate (DIPP)	605-50-5	%(w/w)	ND	0.003	-
n-pentyl-isopentyl Phthalate(nPIPP)	776297-69-9	%(w/w)	ND	0.003	-



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Di-n-pentylphthalate (DnPP)	131-18-0	%(w/w)	ND	0.003	-
Di-n-hexyl Phthalate(DnHP)	84-75-3	%(w/w)	ND	0.003	-
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)	68515-50-4	%(w/w)	ND	0.005	-
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(DC6-10P)	68515-51-5/ 68648-93-1	%(w/w)	ND	0.010	-
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	ND	0.003	-
Di-(2-propylheptyl) Phthalate(DPHpP)	53306-54-0	%(w/w)	ND	0.005	-
Sum of (DIBP, DHNUP, DIHP, DMEP, DPP, DIPP, nPIPP, DnPP, DnHP, DHP, DC6-10P, DCHP, DPHpP)	-	%(w/w)	ND	-	0.05

Notes :

- (1) ★ :Ratio of the mass of plasticized materials against the treated textile product.
- (2) / :Calculation based on the total mass of the sample (Ratio of the mass of plasticized materials against the treated textile product cannot be determined).

5.0 Substitutes for Phthalates

Test Method: With reference to ISO 14389: 2014, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit	001	MDL	Limit
Ratio★	-	%(w/w)		-	-
Di(2-ethyhexyl)adipate (DEHA)	103-23-1	%(w/w)	ND	0.003	0.1
Acetyltributylcitrate (ATBC)	77-90-7	%(w/w)	ND	0.003	0.1
Di-octyl Terephthalate (DOTP)	6422-86-2	%(w/w)	ND	0.003	0.1
1,2-Cyclohexane dicarboxylic acid, di-isononyl ester (DINCH)	166412-78-8	%(w/w)	ND	0.005	0.1
Diisononyl adipate (DINA)	33703-08-1	%(w/w)	ND	0.005	0.1

Notes :

- (1) ★ :Ratio of the mass of plasticized materials against the treated textile product.
- (2) / :Calculation based on the total mass of the sample (Ratio of the mass of plasticized materials against the treated textile product cannot be determined).



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6.0 Organotin compounds

Test Method : With reference to ISO 17353: 2004 , analysis was performed by GC-MS.

Test Item(s)	Unit	001	MDL	Limit
Tripropyltin (TPT)	mg/kg	ND	0.02	0.5
Tributyltin (TBT)	mg/kg	ND	0.02	0.5
Trioctyltin (TOT)	mg/kg	ND	0.02	0.5
Triphenyltin (TPhT)	mg/kg	ND	0.02	0.5
Tricyclohexyltin (TCyT)	mg/kg	ND	0.02	0.5
Dibutyltin (DBT)	mg/kg	ND	0.02	1.0
Diocetyl tin (DOT)	mg/kg	ND	0.02	1.0
Dimethyltin (DMT)	mg/kg	ND	0.02	1.0
Dipropyltin (DPT)	mg/kg	ND	0.02	1.0
Diphenyl tin (DPHt)	mg/kg	ND	0.02	1.0
Monobutyl tin (MBT)	mg/kg	ND	0.02	1.0
Monooctyl tin (MOT)	mg/kg	ND	0.02	1.0
Monomethyltin (MMT)	mg/kg	ND	0.02	1.0
Tetrabutyltin (TTBT/TeBT)	mg/kg	ND	0.02	1.0
Trimethyltin (TMT)	mg/kg	ND	0.02	1.0

8.0 Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item	CAS No.	Unit	002	MDL	Limit
Perfluorooctane Sulfonates (PFOS)^	diverse	µg/m ²	ND	1	1
Perfluorooctanoic Acid (PFOA)	335-67-1	µg/m ²	ND	1	1
Perfluoroheptane Acid (PFHpA)	375-85-9	mg/kg	ND	0.05	0.05
Perfluorononane Acid (PFNA)	375-95-1	mg/kg	ND	0.05	0.05
Perfluorodecane Acid (PFDA)	335-76-2	mg/kg	ND	0.05	0.05
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	ND	0.05	0.05
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	ND	0.05	0.05
Perfluorotridecanoic Acid (PFTTrA)	72629-94-8	mg/kg	ND	0.05	0.05
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	mg/kg	ND	0.05	0.05



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Guangzhou Branch Testing Center

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Notes :

- (1) ^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.

9.0 Nonylphenol (NP), Octylphenol (OP)

Test Method : SGS In-house method(GZTC CHEM-TOP-063-01, with reference to US EPA Method 3550C:2007), analysis was performed by LC-MS.

Test Item	CAS No.	Unit	001	MDL	Limit
Nonylphenol(NP)	25154-52-3	mg/kg	ND	10	100
Octylphenol(OP)	27193-28-8	mg/kg	ND	10	100

10.0 Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)

Test Method : SGS In-house method(GZTC CHEM-TOP-063-01, with reference to US EPA Method 3550C:2007), analysis was performed by LC-MS.

Test Item	CAS No.	Unit	001	MDL	Limit
Nonylphenol ethoxylates (NPEOs)	diverse	mg/kg	ND	30	100
Octylphenol ethoxylates (OPEOs)	diverse	mg/kg	ND	30	100

14.0 Chlorinated Phenols

Test Method :With reference to Modified §64 LFGB 82.02.8:2001 - Alkaline (KOH) digestion, analysis was performed by GC-ECD or GC-MS.

Test Item(s)	CAS No.	Unit	001	MDL	Limit
Trichlorophenol (TCP)	diverse	mg/kg	ND	0.05	0.20
Tetrachlorophenol (TeCP)	diverse	mg/kg	ND	0.05	0.05
Pentachlorophenol (PCP)	87-86-5	mg/kg	ND	0.05	0.05
Dichlorophenols(DCP)	diverse	mg/kg	ND	0.05	0.50
Monochlorophenols(MCP)	diverse	mg/kg	ND	0.05	0.50



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15.0 Carcinogenic Dyestuffs

Test Method : With reference to DIN 54231: 2005. Analysis was performed by HPLC-DAD-MS.

Test Item(s)	CAS-No.	Unit	001	MDL	Limit
C.I. Acid Red 26	3761-53-3	mg/l	ND	1	3.3
C.I. Basic Red 9	569-61-9	mg/l	ND	1	3.3
C.I. Basic Violet 14	632-99-5	mg/l	ND	1	3.3
C.I. Direct Black 38	1937-37-7	mg/l	ND	1	3.3
C.I. Direct Blue 6	2602-46-2	mg/l	ND	1	3.3
C.I. Direct Red 28	573-58-0	mg/l	ND	1	3.3
C.I. Disperse Blue 1	2475-45-8	mg/l	ND	1	3.3
C.I. Disperse orange 11	82-28-0	mg/l	ND	1	3.3
C.I. Disperse Yellow 3	2832-40-8	mg/l	ND	1	3.3

16.0 Allergenic Dyestuffs and Other banned Dyestuffs

Test Method : With reference to DIN 54231: 2005. Analysis was performed by HPLC-DAD-MS.

Test Item(s)	CAS-No.	Unit	001	MDL	Limit
C.I. Disperse Blue 1	2475-45-8	mg/l	ND	1	3.3
C.I. Disperse Blue 3	2475-46-9	mg/l	ND	1	3.3
C.I. Disperse Blue 7	3179-90-6	mg/l	ND	1	3.3
C.I. Disperse Blue 26	3860-63-7	mg/l	ND	1	3.3
C.I. Disperse Blue 35	56524-77-7 56524-76-6	mg/l	ND	1	3.3
C.I. Disperse Blue 102	12222-97-8	mg/l	ND	1	3.3
C.I. Disperse Blue 106	12223-01-7	mg/l	ND	1	3.3
C.I. Disperse Blue 124	61951-51-7	mg/l	ND	1	3.3
C.I. Disperse Brown 1	23355-64-8	mg/l	ND	1	3.3
C.I. Disperse Orange 1	2581-69-3	mg/l	ND	1	3.3
C.I. Disperse Orange 3	730-40-5	mg/l	ND	1	3.3
C.I. Disperse Orange 37/76	13301-61-6	mg/l	ND	1	3.3
C.I. Disperse Orange 149	85136-74-9	mg/l	ND	1	3.3
C.I. Disperse Red 1	2872-52-8	mg/l	ND	1	3.3
C.I. Disperse Red 11	2872-48-2	mg/l	ND	1	3.3
C.I. Disperse Red 17	3179-89-3	mg/l	ND	1	3.3
C.I. Disperse Yellow 1	119-15-3	mg/l	ND	1	3.3
C.I. Disperse Yellow 3	2832-40-8	mg/l	ND	1	3.3



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C.I. Disperse Yellow 9	6373-73-5	mg/l	ND	1	3.3
C.I. Disperse Yellow 23	6250-23-3	mg/l	ND	1	3.3
C.I. Disperse Yellow 39	12236-29-2	mg/l	ND	1	3.3
C.I. Disperse Yellow 49	54824-37-2	mg/l	ND	1	3.3

19.0/19.1/19.2 Polynuclear Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit	001	MDL	Limit	Limit	Limit
Naphthalene	91-20-3	mg/kg	ND	0.1	<0.2	<0.5	<1.0
Acenaphthylene	208-96-8	mg/kg	ND	0.1	<0.2	<0.5	-
Acenaphthene	83-32-9	mg/kg	ND	0.1	<0.2	<0.5	-
Fluorene	86-73-7	mg/kg	ND	0.1	<0.2	<0.5	-
Phenanthrene	85-01-8	mg/kg	ND	0.1	<0.2	<0.5	-
Pyrene	129-00-0	mg/kg	ND	0.1	<0.2	<0.5	-
Anthracene	120-12-7	mg/kg	ND	0.1	<0.2	<0.5	-
Fluoranthene	206-44-0	mg/kg	ND	0.1	<0.2	<0.5	-
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	ND	-	-	-	<1.0
Benzo(a)anthracene	56-55-3	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Chrysene	218-01-9	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Benzo(a)pyrene	50-32-8	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Benzo[e]pyrene	192-97-2	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Benzo(g,h,i)perylene	191-24-2	mg/kg	ND	0.1	<0.2	<0.5	<0.2
Sum of 18 PAHs	-	mg/kg	ND	-	-	-	<1.0
Anthanthrene	191-26-4	mg/kg	ND	0.1	-	-	-
Benzo (c) fluorene	205-12-9	mg/kg	ND	0.1	-	-	-
Benzo (b) naphtha (2,1-d)thiophene	239-35-0	mg/kg	ND	0.1	-	-	-
Cyclopenta (c,d) pyrene	27208-37-3	mg/kg	ND	0.1	-	-	-
Dibenzo (a,l) pyrene	191-30-0	mg/kg	ND	0.1	-	-	-
Dibenzo (a,e) pyrene	192-65-4	mg/kg	ND	0.1	-	-	-



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Dibenzo (a,h) pyrene	189-64-0	mg/kg	ND	0.1	-	-	-
Dibenzo (a,i) pyrene	189-55-9	mg/kg	ND	0.1	-	-	-
1-Methylpyrene	2381-21-7	mg/kg	ND	0.1	-	-	-
5-Methylchrysene	3697-24-3	mg/kg	ND	0.1	-	-	-
Sum of above 10 PAHs	-	-	ND	-	<1.0	<1.0	<1.0

20.0 Formaldehyde

Test Method: With reference to ISO 14184-1:2011. Analysis was performed by UV-Vis.

Test Item	CAS No.	Unit	001	MDL	Limit
Formaldehyde	50-00-0	mg/kg	ND	5	75

21.0 pH Value

Test Method :With reference to ISO 3071:2005, extracted by KCl solution, analysis was performed by pH meter.

Test item	001	Limit
pH Value	6.8	4.0-7.5

22.0 Migration of Certain Elements

Test Method: With reference to EN 71-3:2013+A1:2014. Analysis of general elements was performed by ICP-OES.

Test Item		CAS No.	Unit	MDL	001	Limit
Soluble Aluminum	(Al)	7429-90-5	mg/kg	50	ND	70,000
Soluble Antimony	(Sb)	7440-36-0	mg/kg	10	ND	560
Soluble Arsenic	(As)	7440-38-2	mg/kg	10	ND	47
Soluble Barium	(Ba)	7440-39-3	mg/kg	50	ND	1000
Soluble Boron	(B)	7440-42-8	mg/kg	50	ND	15,000
Soluble Cadmium	(Cd)	7440-43-9	mg/kg	5	ND	17
Soluble Chromium (III)	(Cr (III))	7440-47-3 For Cr only	mg/kg	5	ND	460
Soluble Chromium (VI)	(Cr (VI))	7440-47-3 For Cr only	mg/kg	0.18	ND	0.2
Soluble Cobalt	(Co)	7440-48-4	mg/kg	10	ND	130



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Soluble Copper	(Cu)	7440-50-8	mg/kg	50	ND	7,700
Soluble Lead	(Pb)	7439-92-1	mg/kg	10	ND	160
Soluble Manganese	(Mn)	7439-96-5	mg/kg	50	ND	15,000
Soluble Mercury	(Hg)	7439-97-6	mg/kg	10	ND	94
Soluble Nickel	(Ni)	7440-02-0	mg/kg	10	ND	930
Soluble Selenium	(Se)	7782-49-2	mg/kg	10	ND	460
Soluble Strontium	(Sr)	7440-24-6	mg/kg	50	ND	56,000
Soluble Tin	(Sn)	7440-31-5	mg/kg	4.9	ND	180,000
Soluble Organic Tin**	--	diverse	mg/kg	-	ND	12
Soluble Zinc	(Zn)	7440-66-6	mg/kg	50	ND	46,000

Notes :

- (1) Soluble Chromium (III)= Soluble Total Chromium- Soluble Chromium (VI).
- (2) Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3:2013+A1:2014.
- (3) Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2013+A1:2014.

23.0 Flame Retardants(phosphates)

Test Method :SGS In-house method (GZTC CHEM-TOP-149-04, With reference to US EPA 3550C:2007), analysis was performed by GC-MS and HPLC-DAD/MS.

Test item	CAS No.	Unit	001	MDL	Limit
Triphenyl Phosphate(TPP)	115-86-6	mg/kg	ND	5	ND
Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	mg/kg	ND	5	ND
Triisobutyl Phosphate (TiBP)	126-71-6	mg/kg	ND	5	ND
Tri(2,3-dichloropropyl) phosphate (TDCPP)	13674-87-8	mg/kg	ND	5	ND
Trimethyl Phosphate (TMP)	512-56-1	mg/kg	ND	5	ND
Triethyl Phosphate (TEP)	78-40-0	mg/kg	ND	5	ND
Tris-(2-ethylhexyl) Phosphate(TEHP)	78-42-2	mg/kg	ND	5	ND
Tris-(2-butoxyethyl) Phosphate(TBEP)	78-51-3	mg/kg	ND	5	ND
Tris(2-chlorisopropyl)phosphate(TCPP)	13674-84-5	mg/kg	ND	5	ND
Bis-(2,3-dibromopropyl) Phosphate (BDBPP)	5412-25-9	mg/kg	ND	5	ND
Tributyl Phosphate (TBP)	126-73-8	mg/kg	ND	5	ND
Tris-o-cresyl Phosphate (TOCP)	78-30-8	mg/kg	ND	5	ND
Tris-m-cresyl Phosphate (TMCP)	563-04-2	mg/kg	ND	5	ND
Tris-p-cresyl Phosphate (TCP)	78-32-0	mg/kg	ND	5	ND



Tris-Kresylphosphate (TKP)	1330-78-5	mg/kg	ND	5	ND
Tri-(2,3-dibromopropyl)-phosphate (TRIS)	126-72-7	mg/kg	ND	5	ND

23.1 Flame Retardants

Test Method : SGS In-house method (GZTC CHEM-TOP-149-04, With reference to US EPA 3550C:2007), analysis was performed by GC-MS and HPLC-DAD/MS.
 SGS In-house method (GZTC CHEM-TOP-019-01, with reference to US EPA Method 3550C:2007), analysis was performed by GC-MS.
 SGS In-house method (GZTC CHEM-TOP-073, with reference to US EPA Method 3550C:2007), analysis was performed by LC-MS.

Test item	CAS No.	Unit	001	MDL	Limit
Polybrominated biphenyles (PBBs)	59536-65-1	mg/kg	ND	5	ND
Tri-(2,3-dibromopropyl)-phosphate (TRIS)	126-72-7	mg/kg	ND	5	ND
Pentabromodiphenyl ether (pentaBDE)	32534-81-9	mg/kg	ND	5	ND
Octabromodiphenyl ether (octaBDE)	32536-52-0	mg/kg	ND	5	ND
Decabromodiphenyl ether (decaBDE)	1163-19-5	mg/kg	ND	5	ND
Hexabromocyclododecane(HBCDD)	3194-55-6	mg/kg	ND	5	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	mg/kg	ND	5	ND
Bis(2-ethylhexyl)-2,3,4,5-tetrabromo phthalate(TBPH)	26040-51-7	mg/kg	ND	5	ND
2-Ethylhexyl tetrabromobenzoate(TBB)	183658-27-7	mg/kg	ND	5	ND
2,2-bis(bromoethyl)-1,3-propanediol (BBMPD)	3296-90-0	mg/kg	ND	5	ND

24.0 Chlorinated Organic Carriers

Test Method : With reference to DIN 54232:2010, analysis was conducted with GC-MS.

Test Item(s)	Unit	001	MDL	Limit
Chlorobenzene	mg/kg	ND	0.1	1
Dichlorobenzenes	mg/kg	ND	0.1	1
Trichlorobenzenes	mg/kg	ND	0.1	1
Tetrachlorobenzenes	mg/kg	ND	0.1	1
Pentachlorobenzene	mg/kg	ND	0.1	1
Hexachlorobenzene	mg/kg	ND	0.1	1
Chlorotoluene	mg/kg	ND	0.1	1



Dichlorotoluenes	mg/kg	ND	0.1	1
Trichlorotoluenes	mg/kg	ND	0.1	1
Tetrachlorotoluene	mg/kg	ND	0.1	1
Pentachlorotoluene	mg/kg	ND	0.1	1

26.0 Lead (Pb)

Test Method : With reference to CPSC-CH-E1002-08.1. Analysis was performed by ICP-OES.

Test Item	CAS No.	Unit	001	MDL	Limit
Lead (Pb)	7439-92-1	mg/kg	ND	20	90

27.0 Short Chained Chlorinated Paraffin (SCCP)& Alkanes C14-C17, chloro (medium -chain chlorinated paraffins)(MCCPs)

Test Method : With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

Test Item	CAS No.	Unit	002	MDL	Limit
Short Chained Chlorinated Paraffin (SCCP)	85535-84-8	mg/kg	ND	25	1000
Alkanes C14-C17, chloro (medium -chain chlorinated paraffins)(MCCPs)	85535-85-9	mg/kg	ND	50	1000

30.0 Bisphenol-A

Test Method : Sample preparation with reference to EN71-10:2005 followed by analysis with reference to EN71-11:2005.

Test Item	CAS No.	Unit	001	MDL	Limit
BPA	80-05-7	mg/L	ND	0.04	0.04



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34.0 Methylenediphenyl diisocyanate (MDI)

Test Method : With reference to SGS In-house method (GZTC CHEM-TOP-084-02) , analysis was performed by LC-MS.

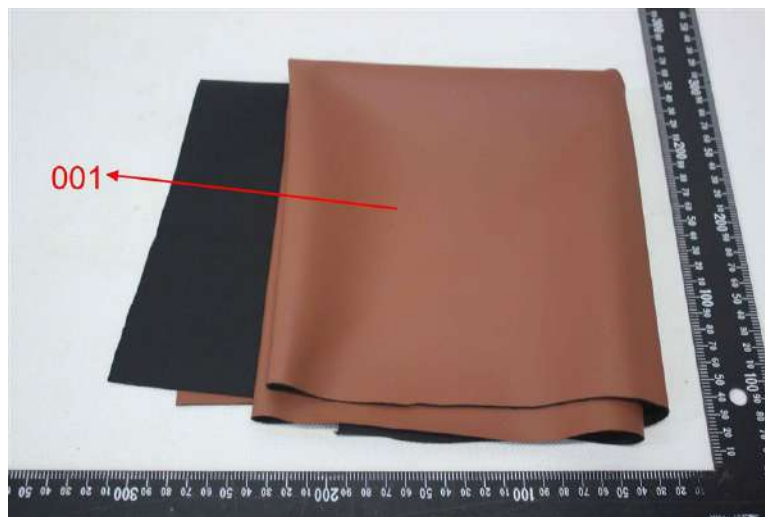
Test Item	CAS No.	Unit	001	MDL	Limit
2,2'-Diphenylmethane diisocyanate (2,2'-MDI)	2536-05-2	mg/kg	ND	5	1000
2,4'-Diphenylmethane diisocyanate (2,4'-MDI)	5873-54-1	mg/kg	ND	5	1000
4,4'-Diphenylmethane diisocyanate (4,4'-MDI)	101-68-8	mg/kg	ND	5	1000

35.0 Dimethyl formamide (DMFA)

Test Method : With reference to ISO/TS 16189:2013, analysis was performed by GC-MS.

Test Item	CAS No.	Unit	002	MDL	Limit
Dimethylformamide	68-12-2	mg/kg	66	5	1000

Sample photo :



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II. SGS Ref No.: CANHG1813933501

Test Requested : As requested by client, SVHC screening is performed according to:
 (i) One hundred and ninety one (191) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Summary :
 According to the specified scope and evaluation screening, the test results of SVHC are **PASS**
 ≤ 0.1% (w/w) in the submitted sample.

Remark :
 (1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.
 (2) Concerning article(s):
 In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the



substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

(3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or



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- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

(5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-139335.001	Brown sheet w/ black backing

Test Method :

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
2. RL = Reporting Limit. All RL are based on homogenous material. ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website : www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm
4. RL = 0.001% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0005% (only for Lead bis(tetrafluoroborate)).
5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
6. Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.
7. ☆ CAS No. of 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; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.010
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.010
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.010
I	4	Anthracene	120-12-7	0.010
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.010
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.010
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.010
I	8	Cobalt dichloride*	7646-79-9	0.001
I	9	Diarsenic pentaoxide*	1303-28-2	0.001
I	10	Diarsenic trioxide*	1327-53-3	0.001
I	11	Dibutyl phthalate (DBP)	84-74-2	0.010
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4,3194-55-6	0.010
I	13	Lead hydrogen arsenate*	7784-40-9	0.001
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.001
I	15	Triethyl arsenate*	15606-95-8	0.001
II	16	2,4-Dinitrotoluene	121-14-2	0.010
II	17	Acrylamide	79-06-1	0.010
II	18	Anthracene oil**	90640-80-5	0.010
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.010
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.010
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.010
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.010
II	23	Diisobutyl phthalate	84-69-5	0.010
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.001
II	25	Lead chromate*	7758-97-6	0.001
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.001
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.010



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Appendix
Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.010
III	29	Ammonium dichromate*	7789-09-5	0.001
III	30	Boric acid*	10043-35-3, 11113-50-1	0.001
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.001
III	32	Potassium chromate*	7789-00-6	0.001
III	33	Potassium dichromate*	7778-50-9	0.001
III	34	Sodium chromate*	7775-11-3	0.001
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.001
III	36	Trichloroethylene	79-01-6	0.010
IV	37	2-Ethoxyethanol	110-80-5	0.010
IV	38	2-Methoxyethanol	109-86-4	0.010
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.001
IV	40	Chromium trioxide*	1333-82-0	0.001
IV	41	Cobalt(II) carbonate*	513-79-1	0.001
IV	42	Cobalt(II) diacetate*	71-48-7	0.001
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.001
IV	44	Cobalt(II) sulphate*	10124-43-3	0.001
V	45	1,2,3-trichloropropane	96-18-4	0.010
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.010
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.010
V	48	1-methyl-2-pyrrolidone	872-50-4	0.010
V	49	2-ethoxyethyl acetate	111-15-9	0.010
V	50	Hydrazine	7803-57-8, 302-01-2	0.010
V	51	Strontium chromate*	7789-06-2	0.001



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	52	1,2-Dichloroethane	107-06-2	0.010
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.010
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.010
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.010
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.001
VI	57	Arsenic acid*	7778-39-4	0.001
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.010
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.010
VI	60	Calcium arsenate*	7778-44-1	0.001
VI	61	Dichromium tris(chromate) *	24613-89-6	0.001
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.010
VI	63	Lead diazide, Lead azide*	13424-46-9	0.001
VI	64	Lead dipicrate*	6477-64-1	0.001
VI	65	Lead styphnate*	15245-44-0	0.001
VI	66	N,N-dimethylacetamide	127-19-5	0.010
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.001
VI	68	Phenolphthalein	77-09-8	0.010
VI	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	0.001
VI	70	Trilead diarsenate*	3687-31-8	0.001
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.001
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.010
VII	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.010
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.010
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.010
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.010



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.010
VII	78	Diboron trioxide*	1303-86-2	0.001
VII	79	Formamide	75-12-7	0.010
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.001
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.010
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.010
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.010
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.010
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.001
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.010
VIII	87	1,2-Diethoxyethane	629-14-1	0.010
VIII	88	1-Bromopropane	106-94-5	0.010
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.010
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.010
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.010
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.010
VIII	93	4-Aminoazobenzene	60-09-3	0.010
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.010
VIII	95	4-Nonylphenol, branched and linear	-	0.010
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.010
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.001
VIII	98	Biphenyl-4-ylamine	92-67-1	0.010
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.010



Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.010
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.010
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.010
VIII	103	Diethyl sulphate	64-67-5	0.010
VIII	104	Diisopentylphthalate	605-50-5	0.010
VIII	105	Dimethyl sulphate	77-78-1	0.010
VIII	106	Dinoseb	88-85-7	0.010
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.001
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.001
VIII	109	Furan	110-00-9	0.010
VIII	110	Henicosfluoroundecanoic acid	2058-94-8	0.010
VIII	111	Heptacosfluorotetradecanoic acid	376-06-7	0.010
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	☆	0.010
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.001
VIII	114	Lead cyanamidate*	20837-86-9	0.001
VIII	115	Lead dinitrate*	10099-74-8	0.001
VIII	116	Lead monoxide*	1317-36-8	0.001
VIII	117	Lead oxide sulfate*	12036-76-9	0.001
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.001
VIII	119	Lead titanium trioxide*	12060-00-3	0.001
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.001
VIII	121	Methoxyacetic acid	625-45-6	0.010
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.010
VIII	123	N,N-dimethylformamide	68-12-2	0.010
VIII	124	N-Methylacetamide	79-16-3	0.010
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.010
VIII	126	o-Aminoazotoluene	97-56-3	0.010



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	127	o-Toluidine	95-53-4	0.010
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.010
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.001
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.001
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.001
VIII	132	Silicic acid, lead salt*	11120-22-2	0.001
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.001
VIII	134	Tetraethyllead*	78-00-2	0.001
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.001
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.010
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.001
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.001
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.010
IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.010
IX	141	Cadmium oxide*	1306-19-0	0.001
IX	142	Cadmium*	7440-43-9	0.001
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.010
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.010
X	145	Cadmium sulphide*	1306-23-6	0.001
X	146	Dihexyl phthalate	84-75-3	0.010
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.010
X	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	0.010
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.010
X	150	Lead di(acetate)*	301-04-2	0.001
X	151	Trixylyl phosphate	25155-23-1	0.010
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
XI	153	Cadmium chloride*	10108-64-2	0.001
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.001
XI	155	Sodium peroxometaborate*	7632-04-4	0.001
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.010
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.010
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.010
XII	159	Cadmium fluoride*	7790-79-6	0.001
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.001
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.010
XIII	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	0.010
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.010
XIV	164	1,3-propanesultone	1120-71-4	0.010
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.010
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.010
XIV	167	Nitrobenzene	98-95-3	0.010
XIV	168	Perfluorononan-1-ic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.010
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.010
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
XVI	171	4-Heptylphenol, branched and linear	-	0.010
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.010
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.010
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.010
XVIII	175	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]	-	0.010
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.010
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.001
XVIII	178	Cadmium carbonate*	513-78-0	0.001
XVIII	179	Cadmium hydroxide*	21041-95-2	0.001
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.010
XVIII	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]	-	0.010
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.010
XIX	183	Benzo[ghi]perylene	191-24-2	0.010
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.010
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.010
XIX	186	Disodium octaborate*	12008-41-2	0.001
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.010
XIX	188	Ethylenediamine	107-15-3	0.010
XIX	189	Lead*	7439-92-1	0.001
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.010
XIX	191	Terphenyl hydrogenated	61788-32-7	0.010



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End of Report

