eurofins | Consumer Product Testing

Chem-ST Test Report

Report No: EFUZ24080-1-CG-01
Date: August 16, 2024

Applicant:	Nassimi LLC
Attention:	
Address:	550 Seventh Ave, 15th Floor NY, NY 10018

OVERALL RATING
PASS

SAMPLE INFORMATION			
Sample Description:	Hyphyn	**Color Name/ Code:**	/
Article/ Style No.:	/	**P.O. number:**	/
Fabric weight:	Approx 30 oz per linear yd	**Country of Origin:**	Taiwan
Type/ Fiber Percentage:	PVC Face/Polyester Backing	**Supplier:**	/
Product Type:	Coated PVC Upholstery Fabric	**Stage:**	/
Season:	/	***End use:**	/
No. of Sample Submitted:	1	***Age Grade:**	/
Country of destination:	/	**WKS ID#:**	/

TEST INFORMATION			
Testing Laboratory:	Vietnam Lab	**Previous Report No.:**	-
Date of Submission:	August 09, 2024		
Test Performance Date:	August 09, 2024 – August 16, 2024		
Remark:	-		

For and on behalf of

Eurofins Consumer Product Testing Vietnam Company Limited

Henry Nguyen
General Manager SL & AN

For and on behalf of

Eurofins Consumer Product Testing Vietnam Company Limited

Dr. Devender Singh
Global Innovation and Technical Director

SAMPLE PHOTO:

TEST SUMMARY

Test Parameters	Rating	Remark
Aromatic Amines from Azo dyes & Aromatic Amines salts	PASS	-
Alkyl Phenols and Alkyl phenol Ethoxylates (APs & APEOs)	PASS	-
Bisphenols	PASS	-
Chlorobenzenes and Chlorotoluenes	PASS	-
Dimethyl fumarate	NA	-
Disperse Dyes and Other Dyes	PASS	-
Formaldehyde	PASS	-
Metals - Total	PASS	-
Chromium VI (Cr VI)	PASS	-
Metals - Extractable	PASS	-
Nickel release	NA	-
Flame Retardants	PASS	-
Organotin Compounds	PASS	-
PFAS	PASS	-
Phthalates	PASS	-
Polycyclic Aromatic Hydrocarbons (PAHs)	PASS	-
Siloxanes	DATA	-
Solvents and Volatile Organic Compounds (VOCs)	PASS	-
Quinoline	PASS	-
Total Cadmium, Lead, Mercury, Chromium (VI), PBBs, PBDEs, Phthalates Content	PASS	-
California Proposition 65	DATA	-
REACH SVHC	PASS	-
GC-MS Screening Result	DATA	-

Remark:
NA = Not Applicable
NR = Not Requested
NT = Not Tested. The sample submitted is insufficient to conduct testing.
PASS = meet client's requirement
FAIL = does not meet client's requirement
DATA = for reference only

COMPONENT BREAKDOWN LIST

Tested Component No.	Component Description	Accessibility	Material Type
01	Grey plastic with white fabric backing (Hyphyn)	A	Plastic + Textile

Note: A – Accessible in the sample received stage.
IN – Inaccessible in the sample received stage.

TEST RESULTS

Tested Component	Limit	Result	Rating
Aromatic Amines from Azo dyes & Aromatic Amines salts Test Method: ISO 14362-1:2017 & ISO 14362-3:2017 (Textile); ISO 17234-1:2020 & ISO 17234-2:2011 (Leather) Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 5 mg/kg)			
01	See Appendix 1	ND	Pass
Alkyl Phenols and Alkyl phenol Ethoxylates (APs & APEOs) Test Method: Extraction with organic solvent and analysis by LCMSMS and GCMS Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 2 mg/kg for APs, 20 mg/kg for APEOs)			
01	See Appendix 2	ND	Pass
Bisphenols Test Method: Extraction with organic solvent and analysis by LCMSMS Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 0.1 mg/kg)			
01	See Appendix 3	BPA: 0.35, Others: ND	Pass
Chlorobenzenes and Chlorotoluenes Test Method: Analysis by HS-GCMS & Extraction with organic solvent and analysis by GCMS; Confirmation by EN 17137:2018 Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 0.2 mg/kg)			
01	See Appendix 4	ND	Pass
Dimethyl fumarate Test Method: Extraction with organic solvent and analysis by GCMS; Confirmation by ISO/TS 16186:2021 Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 0.1 mg/kg)			
/	See Appendix 5	NA	-
Disperse Dyes and Other Dyes Test Method: Extraction with organic solvent and analysis by LCMSMS Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 5 mg/kg)			
01	See Appendix 6	ND	Pass
Formaldehyde – Spot Test Test Method: Sample treated with phenyl hydrazine and ferric chloride solution.			
01	Negative	Inconclusive	See Formaldehyde Test Result
Formaldehyde Test Method: JIS L1041:2011 A (Japan Law 112), ISO 14184-1:2011 (All materials except Leather), ISO 17226-1:2021 (Leather) Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 16 mg/kg for Textile, 2.5 mg/kg for Leather)			
01	See Appendix 7	ND	Pass
Metals - Total Test Method: ISO 17072-2:2019 (Leather), EN 16711-1:2015 (Non-Leather) for Cd; CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal) Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 0.1 for Sn, 5 mg/kg for Zn, 20 mg/kg for Fe and 1 mg/kg for Others)			
01	See Appendix 8	Cr: 3, Ba: 329, Cu: 3, Zr: 19, Al: 270, Sr: 20, Zn: 192, Fe: 194, Others: ND	Pass
Chromium VI (Cr VI) Test Method: DIN EN 16711-2:2016 (Non-Leather), ISO 17075-2:2017 (Leather) Aging condition (Leather): ISO 10195:2018 method A2 (24 hours, 80°C, max. 10%RH, usage of a non-ventilated oven) Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 1 mg/kg for Leather, 0.5 mg/kg for Textile)			
01	See Appendix 8	ND	Pass

Tested Component	Limit	Result	Rating
Metals - Extractable Test Method: ISO 17072-1:2019 (Leather), EN 16711-2:2016 (Non-Leather) Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit refer to Appendix)			
01	See Appendix 8	ND	Pass
Nickel release - Spot Test Test Method: PD CR 12471:2022 Remark: Further quantitative analysis of nickel release is recommended when either positive or uncertain result is reported.			
/	Negative	NA	-
Nickel release Test Method: EN 12472:2020 & EN 1811:2011+A1:2015 Results reported in µg/cm^2/week (micrograms per square centimeter per week), ND = Not Detected (Laboratory Reporting Limit: 0.05 µg/cm^2/week)			
/	See Appendix 9	NA	-
Flame Retardants Test Method: Extraction with organic solvent and analysis by GCMS and LCMSMS; Confirmation by ISO 17881-1:2016 & ISO 17881-2:2016 Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 5 mg/kg)			
01	See Appendix 10	ND	Pass
Organotin Compounds Test Method: CEN ISO/TS 16179:2012 Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 0.01%)			
01	See Appendix 11	ND	Pass
PFAS Test Method: Analysis by HS-GCMS & Extraction with organic solvent and analysis by LCMSMS Results reported in µg/m^2 (microgram per square meter), µg/kg (microgram per kilogram), mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit = 0.5 µg/m^2 or 5 µg/kg (for PFOS); 10 µg/kg (for PFOA and its salts) and (PFHxS and its salts) and C9-C14 PFCA and its salts); 25 µg/kg for Others) Remark: * PFAS-related substances were detected through headspace at high-temperature analysis.			
01	See Appendix 12	ND	Pass
Phthalates Test Method: Extraction with organic solvent and analysis by GCMS; Confirmation by CPSC-CH-C1001-09.4 Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 50 mg/kg)			
01	See Appendix 13	ND	Pass
Polycyclic Aromatic Hydrocarbons (PAHs) Test Method: Extraction with organic solvent and analysis by GCMS; Confirmation by AfPS GS 2019:01 Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 0.1 mg/kg)			
01	See Appendix 14	ND	Pass
Siloxanes (D4, D5, D6) Test Method: Analysis by HS-GCMS Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 50 mg/kg)			
01	See Appendix 15	ND	Data
Solvents and Volatile Organic Compounds (VOCs) Test Method: Analysis by HS-GCMS; Confirmation of DMAC, DMF, NMP, Formamide by EN 17131:2019 (Textiles), ISO/TS 16189:2021 (All other materials) Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit refer to Appendix)			
01	See Appendix 16	ND	Pass

Tested Component	Limit	Result	Rating
Quinoline Test Method: Extraction with organic solvent and analysis by LCMSMS; Confirmation by DIN 54231:2022 Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 10 mg/kg)			
01	See Appendix 17	ND	Pass
Total Cadmium, Lead, Mercury, Chromium (VI), PBBs, PBDEs, Phthalates Content Test Method: - With reference to IEC 62321-5:2013. Determination of Cadmium and Lead by ICPMS. - With reference to IEC 62321-4:2013. Determination of Mercury by ICPMS. - With reference to IEC 62321-7-1:2015. Determination of Hexavalent Chromium in Metals. - With reference to IEC 62321-6:2015. Determination of PBBs and PBDEs by GC-MS. - With reference to IEC 62321, Chapter 8. Determination of PBBs and PBDEs by GC-MS. Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 100 mg/kg) Remark: - (#) The sample is positive for Cr VI if the Cr VI concentration is greater than 0.13ug/cm^2. The sample coating is considered to contain CrVI. - The sample is negative for Cr VI if Cr VI is ND (concentration less than 0.10ug/cm2). The sample coating is considered a non-CrVI based coating. - The result between 0.10 ug/cm^2 and 0.13 ug/cm^2 is considered to be inconclusive-unavoidable coating variations may influce the determination.			
01	See Appendix 18	ND	Pass
California Proposition 65 Test Method: - Analysis by HS-GCMS & Extraction with organic solvent and analysis by GCMS - Extraction with organic solvent and analysis by LCMSMS - Acid digestion and analysis by ICPMS Results reported in mg/kg (milligram per kilogram), ND = Not Detected (Laboratory Reporting Limit: 10 mg/kg) Remark: *Antimony detected, antimony trioxide restricted under **California Proposition 65**, please contact supplier for confirmation			
01	-	Sb*: 107	Data
REACH SVHC Test Method: - Analysis by HS-GCMS & Extraction with organic solvent and analysis by GCMS - Extraction with organic solvent and analysis by LCMSMS - Acid digestion and analysis by ICPMS - Extraction and analysis by UV-VIS Results reported in % (percentage), ND = Not Detected (Laboratory Reporting Limit: 0.01%)			
01	0.1 (Each) See Appendix 19	ND	Pass

GC-MS SCREENING RESULT

Tested Component	Substance	CAS No.	Result (mg/kg)	Worst case (mg/kg)	Remark
01	2-Ethylhexanoic acid	149-57-5	432	-	-
	2-Butyldiglycol	112-34-5	135	-	-
	Biphenyl	92-52-4	29	-	-
	Isophorone diisocyanate (IPDI)[2]	4098-71-9	384	-	-
	Methylene chloride	75-09-2	2	-	-
	Methyl ethyl ketone	78-93-3	3	-	-
	Phenol	108-95-2	4	-	-

Remark:

1. GCMS screening is based on semi-quantitative analysis. Semiquantitative values are referred to benzene and dodecane respectively.
2. Isocyanates can be formed from polyurethanes by thermal decomposition in the GCMS injector block. Free isocyanate content cannot be determined by GCMS screening.

Appendix 1: Aromatic Amines from Azo dyes & Aromatic Amines salts

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 43, 72
4-Aminoazobenzene	60-09-3	30 (Each)
o-Aminoazotoluene/ 4-Amino-2',3-dimethylazobenzene/ 4-o-Tolylazo-o-toluidine	97-56-3	
4-Aminobiphenyl/ Biphenyl-4-ylamine / Xenylamine	92-67-1	
2-Amino-4-nitrotoluene / 5-Nitro-o-toluidine	99-55-8	
o-Anisidine / 2-Methoxyaniline	90-04-0	
Benzidine	92-87-5	
4-Chloroaniline	106-47-8	
4-Chloro-o-toluidine	95-69-2	
p-Cresidine/ 6-Methoxy-m-toluidine	120-71-8	
2,4-Diaminoanisole/ 4-Methoxy-m-phenylenediamine	615-05-4	
4,4'-Diaminodiphenylmethane/ 4,4'-Methylenedianiline	101-77-9	
3,3'-Dichlorobenzidine/ 3,3'-Dichlorobiphenyl-4,4'-ylenediamine	91-94-1	
3,3'-Dimethoxybenzidine/ o-Dianisidine	119-90-4	
3,3'-Dimethylbenzidine/ 4,4'-Bi-o-toluidine	119-93-7	
4,4'-Methylenedi-o-toluidine	838-88-0	
4,4'-Methylene-bis-(2-chloro-aniline)/ 2,2'-Dichloro-4,4'-methylene-dianiline	101-14-4	
2-Naphthylamine	91-59-8	
4,4'-Oxydianiline	101-80-4	
4,4'-Thiodianiline	139-65-1	
2,4-Toluylendiamine/ 4-Methyl-m-phenylenediamine/ 2,4-Diaminotoluene	95-80-7	
o-Toluidine/ 2-Aminotoluene	95-53-4	
2,4,5-Trimethylaniline	137-17-7	
4-Chloro-o-toluidinium chloride	3165-93-3	
2-Naphthylammoniumacetate	553-00-4	
2,4-Diaminoanisole sulphate	39156-41-7	
2,4,5-Trimethylaniline hydrochloride	21436-97-5	

Appendix 2: Alkyl Phenols and Alkyl phenol Ethoxylates (APs & APEOs)

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 46 & 46a
Nonylphenol (NP), mixed isomers	Various	1000
Nonylphenol ethoxylate (NPEO)	Various	100

Appendix 3: Bisphenols

Compound	CAS No.	Limit (mg/kg)
		EU Regulation - REACH SVHC
Bisphenol A (BPA)	80-05-7	1000 (Each)
Bisphenol B (BPB)	77-40-7	
Bisphenol S (BPS)	80-09-1	

Appendix 4: Chlorobenzenes and Chlorotoluenes

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 72
α-Chlorotoluene (Benzyl Chloride)	100-44-7	1 (Each)
α,α,α-Trichlorotoluene (Benzotrichloride)	98-07-7	
α,α,α,4-Tetrachlorotoluene (p-Chlorobenzotrichloride)	5216-25-1	

Appendix 5: Dimethyl fumarate

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 61
Dimethyl fumarate (DMFu)	624-49-7	0.1

Appendix 6: Disperse Dyes and Other Dyes

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 43, 72
Disperse Dyes		
Disperse Blue 1	2475-45-8	50
Other dyes		
Basic Red 9	569-61-9	50 (Each)
Basic Violet 3	548-62-9	
Navy Blue		
Component 1: C39H23ClCrN7O12S.2Na	118685-33-9	1000
Component 2: C46H30CrN10O20S2.3Na	Not allocated	

Appendix 7: Formaldehyde

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 72
Formaldehyde	2475-45-8	75

Appendix 8: **Metals**

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 47, 72
Chromium VI (Cr VI)	-	Leather: 3 Textile: 1

Compound	CAS No.	Lab Reporting Limit (mg/kg)	Limit (mg/kg)
			EU Regulation – REACH Annex XVII – Entry 72
Extractable Metals Content			-
Antimony (Sb)	7440-36-0	1	-
Arsenic (As)	7440-38-2	0.2	1
Barium (Ba)	7440-39-3	100	-
Cadmium (Cd)	7440-43-9	0.05	1
Chromium (Cr)	7440-47-3	0.5	-
Cobalt (Co)	7440-48-4	0.5	
Copper (Cu)	7440-50-8	5	
Lead (Pb)	7439-92-1	0.2	1
Mercury (Hg)	7439-97-6	0.02	-
Nickel (Ni)	7440-02-0	0.1	
Selenium (Se)	7782-49-2	50	

Compound	CAS No.	Lab Reporting Limit (mg/kg)	Limit (mg/kg)
			EU Regulation – REACH Annex XVII – Entry 23, 63, 72
Total Metals Content			
Cadmium (Cd)	7440-43-9	1	Paints (with Taric codes [3208], [3209])/ Plastics/ Metal parts of jewelry: 100 Paints with a zinc content exceeding 10%/ Paint on painted articles: 1000
Lead (Pb)	7439-92-1	1	500
Arsenic (As)	7440-38-2	1	-
Mercury (Hg)	7439-97-6	0.1	100
Chromium (Cr)	7440-47-3	1	Data
Cobalt (Co)	7440-48-4	1	
Nickel (Ni)	7440-02-0	1	
Copper (Cu)	7440-50-8	1	
Antimony (Sb)	7440-36-0	1	
Molybdenum (Mo)	7439-98-7	1	
Barium (Ba)	7440-39-3	1	

Compound	CAS No.	Lab Reporting Limit (mg/kg)	Limit (mg/kg)
			EU Regulation – REACH Annex XVII – Entry 23, 63, 72
Boron (B)	7440-42-8	1	
Zirconium (Zr)	7440-67-7	1	
Tin (Sn)	7440-31-5	0.1	
Strontium (Sr)	7440-24-6	1	
Zinc (Zn)	7440-66-6	5	
Aluminum (Al)	7429-90-5	1	
Manganese (Mn)	7439-96-5	1	
Lithium (Li)	7439-93-2	1	
Iron (Fe)	7439-89-6	20	
Selenium (Se)	7782-49-2	1	

Appendix 9: Nickel release

Compound	CAS No.	Limit (µg/cm²/week)
		EU Regulation – REACH Annex XVII – Entry 27
Nickel release	7440-02-0	For all post assemblies: 0.2 For articles intended to come into direct and prolonged contact with skin: 0.5

Appendix 10: Flame Retardants

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 4, 7, 8, 45, 67, POP Regulation
Pentabromodiphenyl ether (pentaBDE)	32534-81-9	10
Octabromodiphenyl ether (octaBDE)	32536-52-0	1000
Decabromodiphenyl ether (decaBDE)	1163-19-5	1000
All other Polybrominated diphenyl ethers (PBDEs)	Various	10
Polybrominated biphenyls (PBB)	59536-65-1	Usage Banned
Hexabromobiphenyl (HexaBB)	36355-01-8	10
Hexabromocyclododecane (HBCDD)	25637-99-4	100
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	Usage Banned
Tris(1-aziridinyl)-phosphate oxide (TEPA)	545-55-1	Usage Banned

Appendix 11: Organotin Compounds

Compound	CAS No.	Limit (%)
		EU Regulation – REACH Annex XVII – Entry 20
Tributyltin (TBT) compounds	Various	0.1 % by weight of tin (Sum)
Triphenyltin (TPhT) compounds	Various	
Tripropyltin (TPT) compounds	Various	

Compound	CAS No.	Limit (%)
		EU Regulation – REACH Annex XVII – Entry 20
Dibutyltin (DBT) compounds	Various	0.1 % by weight of tin
Dioctyltin (DOT) compounds	Various	0.1 % by weight of tin

Appendix 12: PFAS

Compound	CAS No.	Limit	Measurement	
		EU Regulation – REACH Annex XVII – Entry 68		
PFOS, its salts and derivatives			**LCMSMS**	**GCMS**
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	1 µg/m^2 (Sum)	✓	-
Perfluorooctanesulfonic acid, potassium salt (PFOS- K)	2795-39-3		✓	-
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5		✓	-
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH_4)	29081-56-9		✓	-
Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH(OH)_2$)	70225-14-8		✓	-
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C2H5)$_4$)	56773-42-3		✓	-
Didecyldimethyl ammonium perfluorooctane sulfonate (PFOS-N($C_{10}H_{21}$)$_2$(CH_3)$_2$)	251099-16-8		✓	-
N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2		✓	-
N-Methylperfluoro-1-octanesulfonamide (N-Me- FOSA)	31506-32-8		✓	-
2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2		✓	-
2-(N-Methylperfluoro-1-octanesulfonamido)- ethanol (N-Me-FOSE)	24448-09-7		✓	-
Perfluoro-1-octanesulfonyl fluoride (POSF)	307-35-7		✓	-
Perfluorooctane sulfonamide (PFOSA)	754-91-6		✓	-
PFOA and its salts			**LCMSMS**	**GCMS**
Perfluorooctanoic acid (PFOA)	335-67-1	1 µg/m^2 or 25 µg/kg (Sum)	✓	-
Sodium perfluorooctanoate (PFOA-Na)	335-95-5		✓	-
Potassium perfluorooctanoate (PFOA-K)	2395-00-8		✓	-
Silver perfluorooctanoate (PFOA-Ag)	335-93-3		✓	-
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0		✓	-
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1		✓	-
PFOA related substances			**LCMSMS**	**GCMS**
1H,1H,2H,2H -Perfluorodecane sulphonic acid (8:2 FTS)	39108-34-4	1 mg/kg (Sum)	✓	-
Methyl perfluorooctanoate (Me-PFOA)	376-27-2		✓	-
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5		✓	-
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7		-	✓
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9		-	✓
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9		-	✓
PFHxS and Its Salts			**LCMSMS**	**GCMS**

Compound	CAS No.	Limit	Measurement	
		EU Regulation – REACH Annex XVII – Entry 68		
Perfluorohexane Sulfonic acid (PFHxS)	355-46-4	25 µg/kg (Sum)	✓	-
Perfluorohexane Sulfonic acid, potassium salt (PFHxS-K)	3871-99-6		✓	-
Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	55120-77-9		✓	-
Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH_4)	68259-08-5		✓	-
Perfluorohexane Sulfonic acid, sodium salt (PFHxS-Na)	82382-12-5		✓	-
PFHxS-related Substances			**LCMSMS**	**GCMS**
N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)	68259-15-4	1 mg/kg (Sum)	✓	-
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1		✓	-
C9 – C14 PFCAs and Their Salts			**LCMSMS**	**GCMS**
Perfluorononanoic acid (PFNA, C9-PFCA)	375-95-1	25 µg/kg (Sum)	✓	-
Nonadecafluorodecanoic acid (PFDA, C10-PFCA)	335-76-2		✓	-
Henicosafluoroundecanoic acid (PFUnDA, C11-PFCA)	2058-94-8		✓	-
Tricosafluorododecanoic acid (PFDoDA, C12-PFCA)	307-55-1		✓	-
Pentacosafluorotridecanoic acid (PFTrDA, C13-PFCA)	72629-94-8		✓	-
Heptacosafluorotetradecanoic acid (PFTDA, C14-PFCA)	376-06-7		✓	-
Perfluoro-3-7-dimethyloctanecarboxylate (PF-3,7-DMOA)	172155-07-6		✓	-
Sodium heptadecafluorononanoate (PFNA –Na)	21049-39-8		✓	-
Ammonium perfluoropelargonate (APFN)	4149-60-4		✓	-
Sodium Perfluorodecanoate(PFDA-Na)	3830-45-3		✓	-
Ammonium perfluorodecanoate(APFDA)	3108-42-7		✓	-
Ammonium tricosafluorododecanoate(PFDoA-NH4)	3793-74-6		✓	-
C9 – C14 PFCA-related Substances			**LCMSMS**	**GCMS**
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	260 µg/kg (Sum)	-	✓
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1		-	✓
Perfluorodecane sulfonic Acid (PFDS)	335-77-3		-	✓
Sodium Perfluoro-1-decanesulfonate	2806-15-7		-	✓
Potassium henicosafluorodecanesulphonate	2806-16-8		-	✓
Ammonium henicosafluorodecanesulphonate	67906-42-7		-	✓
PFHxA, Its Salts, and Related Substances			**LCMSMS**	**GCMS**
Perfluorohexanoic Acid (PFHxA, C6-PFCA)	307-24-4	-	-	✓
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2		-	✓
1H,1H,2H,2H-Perfluorooctanol (6:2 FTOH)	647-42-7		-	✓

Appendix 13: Phthalates

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 51, 52, 72
Di-n-hexyl phthalate (DnHP or DHEXP)	84-75-3	1000
Di-n-pentyl phthalate (DnPP or DPENP)	131-18-0	1000
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	1000 (Sum)
Butyl benzyl phthalate (BBP)	85-68-7	
Dibutyl phthalate (DBP)	84-74-2	
Di-iso-butyl phthalate (DIBP)	84-69-5	
Di-iso-nonyl phthalate (DINP)	28553-12-0	1000 (Sum)
Di-iso-decyl phthalate (DIDP)	26761-40-0	
Di-n-octyl phthalate (DNOP)	117-84-0	
Di-iso-heptyl phthalate (DIHP)	71888-89-6	1000
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	1000 (Each)
Di-iso-pentyl phthalate (DIPP)	605-50-5	

Appendix 14: Polycyclic Aromatic Hydrocarbons (PAH)

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 50, 72
Benzo[a]pyrene	50-32-8	1 (Each)
Benzo[e]pyrene	192-97-2	
Benzo[a]anthracene	56-55-3	
Chrysene	218-01-9	
Benzo[b]fluoranthene	205-99-2	
Benzo[j]fluoranthene	205-82-3	
Benzo[k]fluoranthene	207-08-9	
Dibenzo[a,h]anthracene	53-70-3	

Appendix 15: Siloxanes

Compound	CAS No.	Limit (mg/kg)
Octamethylcyclotetrasiloxane (D4)	556-67-2	Data
Decamethylcyclopentasiloxane (D5)	541-02-6	
Dodecamethylcyclohexasiloxane (D6)	540-97-6	

Appendix 16: Solvents and Volatile Organic Compounds (VOCs)

Compound	CAS No.	Lab Reporting Limit (mg/kg)	Limit (mg/kg)
			EU Regulation – REACH Annex XVII – Entry 5, 72
N,N-Dimethylformamide (DMF)	68-12-2	50 (Each)	3000 (Each)
N,N-Dimethylacetamide (DMAC)	127-19-5		
N-Methylpyrrolidone (NMP)	872-50-4		
Benzene	71-43-2	1	5

Appendix 17: Quinoline

Compound	CAS No.	Limit (mg/kg)
		EU Regulation – REACH Annex XVII – Entry 72
Quinoline	91-22-5	50

Appendix 18: Total Cadmium, Lead, Mercury, Chromium (VI), PBBs, PBDEs Content

Compound	CAS No.	Limit (mg/kg)
		Commission Delegated Directive (EU) 2015/863 Amending Annex II of Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU
Cadmium (Cd)	7440-43-9	100
Lead (Pb)	7439-92-1	1000
Mercury (Hg)	7439-97-6	1000
Chromium VI (Cr VI)#	-	0.13
Polybrominated Biphenyls (PBBs)		
Bromobiphenyls (MonoBB)	Various	1000 (Sum)
Dibromobiphenyls (DiBB)	Various	
Tribromobiphenyls (TriBB)	Various	
Tetrabromobiphenyls (TetraBB)	Various	
Pentabromobiphenyls (PentaBB)	Various	
Hexabromobiphenyls (HexaBB)	36355-01-8	
Heptabromobiphenyls (HeptaBB)	Various	
Octabromobiphenyls (Tech) (OctaBB)	Various	
Nonabromobiphenyl (NonaBB)	Various	
Decabromobiphenyl (DecaBB)	Various	
Polybrominated Diphenyl Ethers (PBDEs)		
Bromodiphenyl ethers (MonoBDE)	Various	1000 (Sum)
Dibromodiphenyl ethers (DiBDE)	Various	
Tribromodiphenyl ethers (TriBDE)	Various	
Tetrabromodiphenyl ethers (TetraBDE)	5436-43-1	
Pentabromodiphenyl ethers (PentaBDE)	60348-60-9	
Hexabromodiphenyl ethers (HexaBDE)	68631-49-2, 207122-15-4	
Heptabromodiphenyl ethers (HeptaBDE)	446255-22-7 207122-16-5	
Octabromodiphenyl ethers (OctaBDE)	32536-52-0	
Nonabromodiphenyl ethers (NonaBDE)	Various	
Decabromodiphenyl ether (DecaBDE)	1163-19-5	
Dibutylphthalate (DBP)	84-74-2	1000 (Each)
Benzylbutylphthalate (BBP)	85-68-7	
Diethylhexylphthalate (DEHP)	117-81-7	
Diisobutylphthalate (DIBP)	84-69-5	

Appendix 19: REACH SVHC (241 substances)

	Compound	CAS No.	EC No.
1	*Triethyl arsenate	15606-95-8	427-700-2
2	*Diarsenic pentaoxide	1303-28-2	215-116-9
3	*Diarsenic trioxide	1327-53-3	215-481-4
4	*Cobalt dichloride	7646-79-9	231-589-4
5	*Sodium dichromate	7789-12-0 10588-01-9	234-190-3
6	*Lead hydrogen arsenate	7784-40-9	232-064-2
7	Dibutyl phthalate (DBP)	84-74-2	201-557-4
8	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
9	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0
10	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
11	Anthracene	120-12-7	204-371-1
12	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4
13	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	3194-55-6 25637-99-4 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 and 221-695-9
14	[#] Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
16	2,4-Dinitrotoluene	121-14-2	204-450-0
17	[a]Anthracene oil	90640-80-5	292-602-7
18	[a]Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5
19	[a]Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9
20	[a]Anthracene oil, anthracene-low	90640-82-7	292-604-8
21	[a]Anthracene oil, anthracene paste	90640-81-6	292-603-2
22	Diisobutyl phthalate	84-69-5	201-553-2
23	*Lead Chromate	7758-97-6	231-846-0
24	*Lead Chromate Molybdate Sulfate Red (C.I. Pigment Red 104)	12656-85-8	235-759-9
25	*Lead Sulfochromate Yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
26	Acrylamide	79-06-1	201-173-7
27	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5
28	Coal tar pitch, high temperature	65996-93-2	266-028-2
29	Trichloroethylene	79-01-6	201-167-4
30	*Boric acid	10043-35-3 / 11113-50-1	233-139-2 / 234-343-4
31	*Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4

	Compound	CAS No.	EC No.
32	*Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
33	*Sodium chromate	7775-11-3	231-889-5
34	*Potassium chromate	7789-00-6	232-140-5
35	*Ammonium dichromate	7789-09-5	232-143-1
36	*Potassium dichromate	7778-50-9	231-906-6
37	*Cobalt (II) sulphate	10124-43-3	233-334-2
38	*Cobalt (II) dinitrate	10141-05-6	233-402-1
39	*Cobalt (II) carbonate	513-79-1	208-169-4
40	*Cobalt (II) diacetate	71-48-7	200-755-8
41	2-Methoxyethanol	109-86-4	203-713-7
42	2-Ethoxyethanol	110-80-5	203-804-1
43	*Chromium trioxide	1333-82-0	215-607-8
44	*Chromic acid, *Oligomers of chromic acid and dichromic acid, *Dichromic acid	7738-94-5 -- 13530-68-2	231-801-5 -- 236-881-5
45	2-ethoxyethyl acetate	111-15-9	203-839-2
46	*Strontium chromate	7789-06-2	232-142-6
47	1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6
48	Hydrazine	7803-57-8 302-01-2	206-114-9
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1
50	1,2,3-trichloropropane	96-18-4	202-486-1
51	1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1
52	*Zirconia Aluminosilicate Refractory Ceramic Fibres	--	--
53	*Calcium arsenate	7778-44-1	231-904-5
54	Bis(2-methoxyethyl) ether	111-96-6	203-924-4
55	*Aluminosilicate Refractory Ceramic Fibres	--	--
56	*Potassium hydroxyoctaoxodizincate dichromate	11103-86-9	234-329-8
57	*Lead dipicrate	6477-64-1	229-335-2
58	N,N-dimethylacetamide	127-19-5	204-826-4
59	*Arsenic acid	7778-39-4	231-901-9
60	2-Methoxyaniline / o-Anisidine	90-04-0	201-963-1
61	*Trilead diarsenate	3687-31-8	222-979-5
62	1,2-dichloroethane	107-06-2	203-458-1
63	*Pentazinc chromate octahydroxide	49663-84-5	256-418-0
64	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2
65	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
66	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6

	Compound	CAS No.	EC No.
67	*Lead diazide, Lead azide	13424-46-9	236-542-1
68	*Lead styphnate	15245-44-0	239-290-0
69	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
70	Phenolphthalein	77-09-8	201-004-7
71	*Dichromium tris(chromate)	24613-89-6	246-356-2
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
74	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2
75	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5
76	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6
77	[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	219-943-6
78	*Diboron trioxide	1303-86-2	215-125-8
79	Formamide	75-12-7	200-842-0
80	*Lead(II) bis(methane sulfonate)	17570-76-2	401-750-5
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
82	§TGIC (1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3
83	§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	423-400-0
84	α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9
86	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2
87	Tricosafluorododecanoic acid	307-55-1	206-203-2
88	Henicosafluoroundecanoic acid	2058-94-8	218-165-4
89	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] *[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].*	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9
92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] *[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]*	25550-51-0 19438-60-9 48122-14-1 57110-29-9	247-094-1 243-072-0 256-356-4 260-566-1
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]*	--	--
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--	--
95	Methoxyacetic acid	625-45-6	210-894-6
96	N,N-dimethylformamide	68-12-2	200-679-5

	Compound	CAS No.	EC No.
97	#Dibutyltin dichloride (DBTC)	683-18-1	211-670-0
98	*Lead monoxide (Lead oxide)	1317-36-8	215-267-0
99	*Orange lead (Lead tetroxide)	1314-41-6	215-235-6
100	*Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
101	*Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6
102	*Lead titanium trioxide	12060-00-3	235-038-9
103	*Lead titanium zirconium oxide	12626-81-2	235-727-4
104	*Silicic acid, lead salt	11120-22-2	234-363-3
105	*Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [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	272-271-5
106	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0
107	Methyloxirane (Propylene oxide)	75-56-9	200-879-2
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
109	Diisopentylphthalate (DIPP)	605-50-5	210-088-4
110	N-pentyl-isopentylphthalate	776297-69-9	--
111	1,2-diethoxyethane	629-14-1	211-076-1
112	*Acetic acid, lead salt, basic	51404-69-4	257-175-3
113	*Lead oxide sulfate	12036-76-9	234-853-7
114	*[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
115	*Dioxobis(stearato)trilead	12578-12-0	235-702-8
116	*Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
117	*Lead cynamidate	20837-86-9	244-073-9
118	*Lead dinitrate	10099-74-8	233-245-9
119	*Pentalead tetraoxide sulphate	12065-90-6	235-067-7
120	*Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
121	*Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
122	*Tetraethyllead	78-00-2	201-075-4
123	*Tetralead trioxide sulphate	12202-17-4	235-380-9
124	*Trilead dioxide phosphonate	12141-20-7	235-252-2
125	Furan	110-00-9	203-727-3
126	Diethyl sulphate	64-67-5	200-589-6
127	Dimethyl sulphate	77-78-1	201-058-1
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7
130	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8

	Compound	CAS No.	EC No.
131	4,4'-oxydianiline and its salts	101-80-4	202-977-0
132	4-aminoazobenzene	60-09-3	200-453-6
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
135	Biphenyl-4-ylamine	92-67-1	202-177-1
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine])	97-56-3	202-591-2
137	o-toluidine	95-53-4	202-429-0
138	N-methylacetamide	79-16-3	201-182-6
139	Cadmium	7440-43-9	231-152-8
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
142	Dipentyl phthalate (DPP)	131-18-0	205-017-9
143	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]*	--	--
144	*Cadmium oxide	1306-19-0	215-146-2
145	*Lead di(acetate)	301-04-2	206-104-4
146	*Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)*	573-58-0	209-358-4
147	*Trixylyl phosphate*	25155-23-1	246-677-8
148	*Imidazolidine-2-thione; (2-imidazoline-2-thiol)*	96-45-7	202-506-9
149	Dihexyl phthalate	84-75-3	201-559-5
150	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	217-710-3
151	*Cadmium sulphide	1306-23-6	215-147-8
152	*Cadmium chloride	10108-64-2	233-296-7
153	*Sodium peroxometaborate	7632-04-4	231-556-4
154	*Sodium perborate; perboric acid, sodium salt	--	239-172-9 234-390-0
155	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5
156	*Cadmium fluoride	7790-79-6	232-222-0
157	*Cadmium sulphate	10124-36-4 31119-53-6	233-331-6
158	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6
159	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8
160	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4
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 and MOTE)	--	--
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 (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1

	Compound	CAS No.	EC No.
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-secbutyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] orany combination there]	--	--
164	Nitrobenzene	98-95-3	202-716-0
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8
166	2-(2H-benzotriazol-2- yl)-4-(tert-butyl)-6-(secbutyl) phenol (UV-350)	36437-37-3	253-037-1
167	1,3-propanesultone	1120-71-4	214-317-9
168	Perfluorononan-1-oicacid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3
169	Benzo[def]chrysene (benzo[a]pyrene)	50-32-8	200-028-5
170	4-tert-pentylphenol (PTAP)	80-46-6	201-280-9
171	4-heptylphenol, branched and linear (4-HPbl)	--	--
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	206-400-3
173	4,4'-isopropylidenediphenol (Bisphenol A)	80-05-7	201-245-8
174	Perfluorohexane-1-sulphonic acid and its salts	--	--
175	Benz[a]anthracene	56-55-3 1718-53-2	200-280-6
176	*Cadmium carbonate	513-78-0	208-168-9
177	*Cadmium hydroxide	21041-95-2	244-168-5
178	*Cadmium nitrate	10022-68-1 10325-94-7	233-710-6
179	Chrysene	218-01-9 1719-03-5	205-923-4
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”™)	--	--
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	--	--
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	209-008-0
183	Benzo[ghi]perylene	191-24-2	205-883-8
184	Decamethylcyclopentasiloxane	541-02-6	208-764-9
185	Dicyclohexyl phthalate	84-61-7	201-545-9
186	*Disodium octaborate	12008-41-2	234-541-0
187	Dodecamethylcyclohexasiloxane	540-97-6	208-762-8
188	Ethylenediamine	107-15-3	203-468-6
189	Lead	7439-92-1	231-100-4
190	Octamethylcyclotetrasiloxane	556-67-2	209-136-7
191	Terphenyl, hydrogenated	61788-32-7	262-967-7
192	Pyrene	129-00-0; 1718-52-1	204-927-3
193	Phenanthrene	85-01-8	201-581-5
194	Fluoranthene	206-44-0; 93951-69-0	205-912-4
195	Benzo[k]fluoranthene	207-08-9	205-916-6
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1

	Compound	CAS No.	EC No.
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	--	--
199	4-tert-butylphenol	98-54-4	202-679-0
200	2-methoxyethyl acetate	110-49-6	203-772-9
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	--	--
202	Perfluorobutane sulfonic acid (PFBS) and its salts	--	--
203	Diisohexyl phthalate	71850-09-4	276-090-2
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
205	2-benzyl-2-dimenthylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3
206	1-vinylimidazole	1072-63-5	214-012-0
207	2-methylimidazole	693-98-1	211-765-7
208	butyl 4-hydroxybenzoate	94-26-8	202-318-7
209	*Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7
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	--	--
212	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	--	--
213	*Orthoboric acid, sodium salt	13840-56-7	237-560-2
214	2,2-bis(bromomethyl) Propane1,3-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)	3296-90-0 36483-57-5 1522-92-5 96-13-9	 221-967-7 253-057-0 202-480-9
215	Glutaral	111-30-8	203-856-5
216	Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)	1372804-76-6, 85535-85-9, 198840-65-2	287-477-0, 950-299-5
217	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerization, covering any individual isomers and/ or combinations thereof (PDDP)	210555-94-5, 27459-10-5, 27147-75-7, 121158-58-5, 74499-35-7, 57427-55-1	310-154-3
218	1,4-dioxane	123-91-1	204-661-8
219	4,4'-(1methylpropylidene) bisphenol	77-40-7	201-025-1
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1
221	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0
222	(±)-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)	1782069-81-1, 95342-41-9, 852541-25-4, 36861-47-9, 741687-98-9, 852541-30-1, 852541-21-0	--
223	S-(tricyclo(5.2.1.02,6)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	401-850-9

	Compound	CAS No.	EC No.
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9
227	4,4'-sulphonyldiphenol	80-09-1	201-250-5
228	*Barium diboron tetraoxide	13701-59-2	237-222-4
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	--
230	Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8
231	Melamine	108-78-1	203-615-4
232	Perfluoroheptanoic acid and its salts	--	--
233	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	--	473-390-7
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8
235	Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9
236	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	--	700-960-7
237	Bumetrizole	3896-11-5	223-445-4
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0
239	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	221-573-5
240	2,4,6-tri-tert-butylphenol	732-26-3	211-989-5
241	Bis(α,α – dimethylbenzyl) peroxide	80-43-3	201-279-3

Remarks:

1. The concentration of list substances were calculated as selected element(s).
2. # - The concentration of Bis(tributyltin) oxide TBTO and Dibutyltin dichloride DBTC were calculated based on Tributyltin, TBT and Dibutyltin, DBT amount in sample, respectively. The result covers TBTO with other salts of TBT and DBTC with other salts of DBT under current technologies. Further investigation is required to determine the exact amount of TBTO and DBTC in sample.
3. a - The anthracene oil derivates are complex and consists of variable compositions of Polycyclic Aromatic Hydrocarbons (PAHs) and Carbazoles. The amount of Anthracene oil derivates are calculated by the composition of PAHs and Carbazoles found in sample.
4. § - TGIC (1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione) andβ-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) are reported as a mixture.
5. The chemical analysis of the Substance of Very High Concern is performed by currently available analytical techniques against the candidate list published by ECHA on Jun. 27, 2024. This list was not finalized by ECHA and it may subject to change in the future.
6. Total Chromium is detected in the sample. Importer/manufacturer is suggested to check the chemical composition of the materials whether SVHC related compounds are being used in the manufacturing process.

***** END OF THE REPORT *****