

SAFETY AND COMPLIANCE TESTING FOR BLUEROSE PACKAGING & SHIPPING SUPPLIES, INC

Tested Sample(s) : Production
Brand : BlueRose Packaging
Model : Thermal Air Blocker
Color : White
Size : Not Specified
Stock / Model Number : WCD-BRFB-2102FP
Country of Origin : USA
Age Grading : Not Specified
Children's Product : No

Prepared For:

Bluerose Packaging & Shipping Supplies, Inc
2662 E. 20th ST., SU-309,
Signal Hill, CA, 90755



Part of the Cotecna Group

Issue Date: 14 January 2026

Final Report: 1230.21244.001

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DATE AND PLACE OF TEST

Sample(s) received on : 17 October 2025
 Testing was initiated on : 17 October 2025
 Testing was completed on : 18 November 2025
 Testing was performed at : Outside lab

OUTSIDE LAB TESTING

Testing was performed at : CTT Consumer Testing Technology
 No.7, Gongye Beisi Road, Songshanhu High-Tech Industrial
 Development Park, Dongguan, Guangdong, China.
 Testing was performed at : Applied Technical Services
 1049 Triad Court, Marietta, GA, 30062

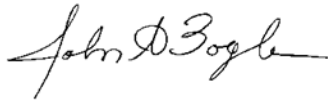
CONCLUSION

1230.21244.001 –BlueRose Packaging, Thermal Air Blocker (White)		
Purpose of Test -Each test performed is intended to check compliance with the following:	Result	Comment
Halogen	*†	
RoHS Directive 2011/65/EU - Hg, Cd, CrVI, Pb, PBBs&PBDEs	C†	
RoHS Directive 2011/65/EU and its subsequent amendments (EU) 2015/863 - Phthalates	C†	
Toxic Substances Control Act - 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	C†	*See Results within.
Toxic Substances Control Act - Pentachlorothiophenol (PCTP)	C†	As per CTT Test Report CTT2510010817EN
Toxic Substances Control Act - Hexachlorobutadiene (HCBd)	C†	Retest as per ATS Test Report 467862
Toxic Substances Control Act - Decabromobiphenylether (decaBDE)	C†	
Toxic Substances Control Act - Phenol, isopropylated phosphate (PIP(3:1))	C†	
Client's requirement - 3 Substances of Very High Concern (SVHC)	C†	

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Based on the list published by European Chemicals Agency (ECHA) public consultation, regarding Regulation (EC) No. 1907/2006 concerning the REACH - 250 Substances of Very High Concern (SVHC)	C†	
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President,

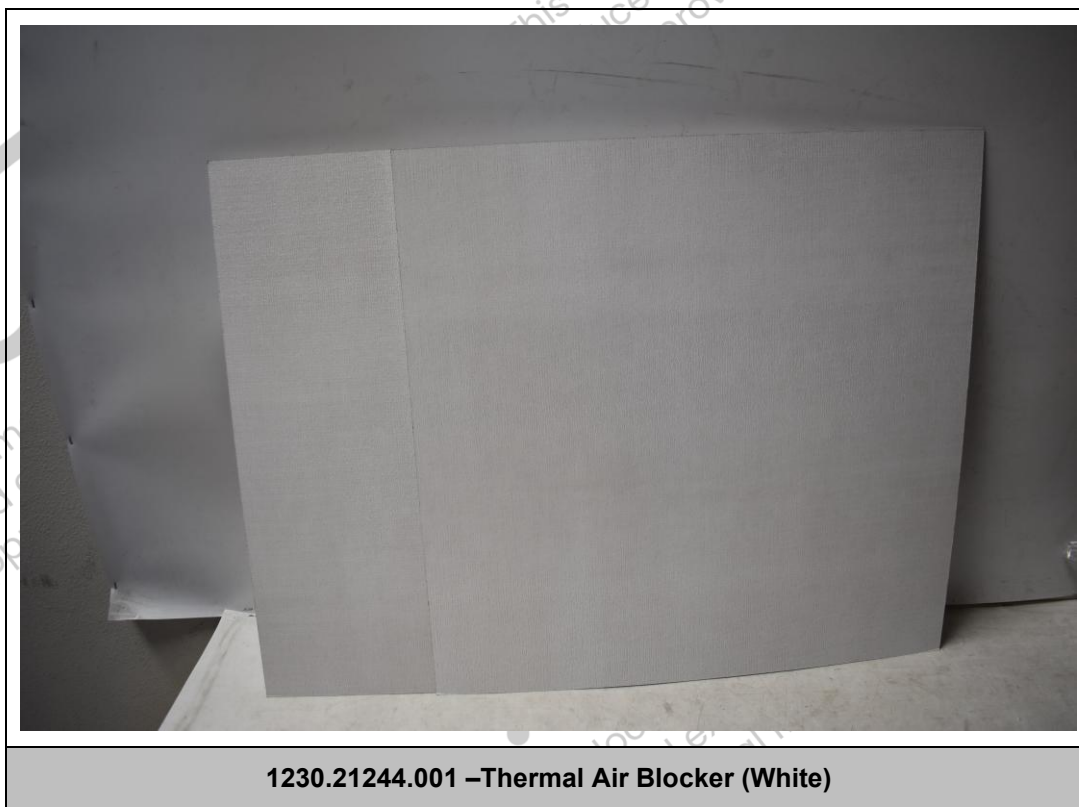


John A. Bogler

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SAMPLE IDENTIFICATION

Brand:	BlueRose Packaging	Job No.:	1230.21244
Model:	Thermal Air Blocker	Sample ID:	1230.21244.001
Manufacturer:	Not Specified	Type:	Production
Stock/Model No.:	WCD-BRFB-2102FP	Material:	Not Specified
UPC:	Not Specified	Size:	Not Specified
Serial No.:	Not Specified	Color(s):	White
Age Grading:	Not Specified	Weight (kg):	Not Specified
Children's Product:	No	Country of Origin:	USA



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TEST METHODS

Method for each test conducted is as follows:

- Halogen
 - EN 14582:2016.
- XRF Scanning Test - RoHS Directive 2011/65/EU
 - IEC 62321-3-1:2013.
- Phthalates - RoHS Directive 2011/65/EU and its subsequent amendments (EU) 2015/863
 - IEC 62321-8:2017
- 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP) - Toxic Substances Control Act
 - EPA 3550C:2007 & EPA 8270E:2018
- Pentachlorothiophenol (PCTP) - Toxic Substances Control Act
 - EPA 3550C:2007 & EPA 8270E:2018
- Hexachlorobutadiene (HCBd) - Toxic Substances Control Act
 - EPA 3550C:2007 & EPA 8270E:2018
- Decabromobiphenylether (decaBDE) - Toxic Substances Control Act
 - EPA 3550C:2007 & EPA 8270E:2018
- Phenol, isopropylated phosphate (PIP(3:1)) - Toxic Substances Control Act
 - EPA 3550C:2007 & EPA 8270E:2018
- 3 Substances of Very High Concern (SVHC) - Client's requirement
 - In-house method.
- 250 Substances of Very High Concern (SVHC) - Based on the list published by European Chemicals Agency (ECHA) public consultation, regarding Regulation (EC) No. 1907/2006 concerning the REACH
 - In-house method (WI-C0039&WI-C0107).

TEST RESULTS

<p>C: Compliant; Product meets specified standard PC: Compliant to tested sections NC: Non-Compliant; Product does not meet specified standard NA: Not Applicable to this design NR: Not Requested by the Applicant NP: Not Present</p>	<p>ND: None Detected IC: Inconclusive NT: Not Tested FTR: Further Testing Recommended PPM: Parts Per Million *: See Comments †: Testing performed at outside lab</p>
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Halogen

No.	Substances Name	CAS No.	LOQ (mg/kg)	Result (mg/kg) †
				1
1	Fluorine (F)	7782-41-4	50	ND
2	Chlorine (Cl)	7782-50-5	50	324
3	Bromine (Br)	7726-95-6	50	ND
4	Iodine (I)	12190-71-5	50	ND
5	Sum (Cl+Br)	–	50	324

NOTE:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).
3. Insoluble halides present in the original sample or produced during the combustion step are not completely determined by these methods.

XRF Scanning Test - RoHS Directive 2011/65/EU

Material No.	Substances	Result†	Conclusion
1	Hg	BL	C
	PBBs&PBDEs	BL	C
	Cd	BL	C
	CrVI	BL	C
	Pb	BL	C

NOTE: 1. The results of CrVI were reported as Cr, PBBs & PBDEs were reported as Br.

Screening limits in mg/kg for regulated elements in various matrices

Elements	Polymer	Metal	Composite Materials
Pb/Hg	BL ≤ (700-3σ), OL ≥ (1300+3σ) (700-30) < IN < (1300+3σ)		BL ≤ (500-3σ), OL ≥ (1500+3σ) (500-30) < IN < (1500+3σ)
Cd	BL ≤ (70-3σ), OL ≥ (130+3σ) (70-3σ) < IN < (130+3σ)		OL ≥ (150+3σ), LOD < IN < (150+3σ)
Cr	BL ≤ (700-3σ), IN > (700-3σ)		BL ≤ (500-3σ), IN > (500-3σ)
Br	BL ≤ (300-3σ) IN > (300-3σ)	–	BL ≤ (250-3σ) IN > (250-3σ)

"3σ" expresses the repeatability of the analyser at the action level, where σ is determined as the standard deviation of the result obtained on a typical sample with the content of the regulated substances near the limits of interest; LOD is the limit of detection.

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Phthalates - RoHS Directive 2011/65/EU and its subsequent amendments (EU) 2015/863

Substances	Di-butyl phthalate (DBP)	Butyl benzyl phthalate (BBP)	Bis(2-ethylhexyl) phthalate (DEHP)	Di-iso-butyl phthalate (DIBP)	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
LOQ (mg/kg)	50	50	50	50	
Limit (mg/kg)	1000	1000	1000	1000	
Material No.	Result (mg/kg) [†]				
1	ND	ND	ND	ND	C

NOTE:
 1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).

2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP) - Toxic Substances Control Act

Substances	2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	Conclusion
CAS No.	732-26-3	
LOQ (mg/kg)	50	
Limit (mg/kg)	3000	
Material No.	Result (mg/kg) [†]	
1	ND	C

NOTE:
 1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).

Pentachlorothiophenol (PCTP) - Toxic Substances Control Act

Substances	Pentachlorothiophenol (PCTP)	Conclusion
CAS No.	133-49-3	
LOQ (mg/kg)	50	
Limit (mg/kg)	10000	
Material No.	Result (mg/kg) [†]	
1	ND	C

NOTE:
 1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).

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Hexachlorobutadiene (HCBd) - Toxic Substances Control Act

Substances	Hexachlorobutadiene (HCBd)	Conclusion
CAS No.	87-68-3	
LOQ (mg/kg)	50	
Limit (mg/kg)	ND	
Material No.	Result (mg/kg) [†]	
1	ND	C

NOTE:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).

Decabromobiphenylether (decaBDE) - Toxic Substances Control Act

Substances	DecaBromodiphenyl ether (decaBDE)	Conclusion
CAS No.	1163-19-5	
LOQ (mg/kg)	50	
Limit (mg/kg)	ND	
Material No.	Result (mg/kg) [†]	
1	ND	C

NOTE:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).

Phenol, isopropylated phosphate (PIP(3:1)) - Toxic Substances Control Act

Substances	Phenol, isopropylated phosphate (PIP (3:1))	Conclusion
CAS No.	68937-41-7	
LOQ (mg/kg)	50	
Limit (mg/kg)	ND	
Material No.	Result (mg/kg) [†]	
1	ND	C

NOTE:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).

Test Material List

Material No.	Sample Description	Location
1	Brown paper with white printing	Individual

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3 Substances of Very High Concern (SVHC) - Client's requirement

Substances	Bisphenol AF and its salts	Bisphenol F (BPF)	Resorcinol	Conclusion
CAS No.	--	620-92-8	108-46-3	
LOQ (%)	0.005	0.005	0.005	
Limit (%)	0.1	0.1	0.1	
Material No.	Result (%) [†]			
1	ND	ND	ND	C

- NOTE:**
1. %=percentage.
 2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).

250 Substances of Very High Concern (SVHC)

Batch	Substance Name	CAS No.	Result [†] (%)
			A
XXVIII	Melamine	108-78-1	0.0148*
--	Other SVHC	--	ND
Conclusion			C

*As per ATS Test Report 467862.

- Note:**
1. "C" means that the test results of SVHC of every material in the group are $\leq 0.1\%$ weight by weight (w/w); "NC" means the test results of SVHC of at least one material in the group are $> 0.1\%$ weight by weight (w/w); "INCONCLUSIVE" means that the material in the group needs to be tested separately to confirm whether the SVHC of any material are $> 0.1\%$ weight by weight (w/w).
 2. The table above only shows detected SVHC, and SVHC that below LOQ are not reported. Please refer to Appendix for the full list of tested SVHC.
 3. N.D. = Not Detected ($< LOQ$).
 4. LOQ = Limit of Quantitation.
 5. "--" = Not Applicable.

Material list of test

Group	Material No.	Sample Description	Location
A	1	Brown paper with white printing	Individual

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Appendix Full list of tested SVHC

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
I	1	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	GC-MS	0.010
I	2	Anthracene	120-12-7	GC-MS	0.005
I	3	Benzyl butyl phthalate (BBP)	85-68-7	GC-MS	0.005
I	4	Bis[2-ethyl(hexyl)phthalate] (DEHP)	117-81-7	GC-MS	0.005
I	5	Bis(tributyltin)oxide (TBTO) Δ	56-35-9	ICP-OES	0.005
I	6	Cobalt dichloride Δ	7646-79-9	ICP-OES	0.005
I	7	Diarsenic pentaoxide Δ	1303-28-2	ICP-OES	0.005
I	8	Diarsenic trioxide Δ	1327-53-3	ICP-OES	0.005
I	9	Dibutyl phthalate (DBP)	84-74-2	GC-MS	0.005
I	10	4, 4'- Diaminodiphenylmethane	101-77-9	UPLC-MS/MS	0.005
I	11	5-tert-butyl-2,4,6-trinitro-m- xylene (Musk xylene)	81-15-2	GC-MS	0.005
I	12	Hexabromocyclododecane (HBCDD) and diastereoisomers (α -HBCDD, β -HBCDD, γ - HBCDD)	25637-99-4 3194-55-6 (134237-50-6 134237-51-7 134237-52-8)	GC-MS	0.005
I	13	Lead hydrogen arsenate Δ	7784-40-9	ICP-OES	0.005
I	14	Sodium dichromate Δ	7789-12-0, 10588-01-9	ICP-OES/ UV-Vis	0.005
I	15	Triethyl arsenate Δ	15606-95-8	ICP-OES	0.005
II	16	Anthracene oil	90640-80-5	GC-MS	0.005
II	17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	GC-MS	0.005
II	18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	GC-MS	0.005
II	19	Anthracene oil, anthracene-low	90640-82-7	GC-MS	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
II	20	Anthracene oil, anthracene paste	90640-81-6	GC-MS	0.005
II	21	Coal tar pitch, high temperature	65996-93-2	GC-MS	0.005
II	22	Acrylamide	79-06-1	GC-MS	0.005

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II	23	2,4-Dinitrotoluene	121-14-2	GC-MS	0.005
II	24	Diisobutyl phthalate(DIBP)	84-69-5	GC-MS	0.005
II	25	Lead chromate Δ	7758-97-6	ICP-OES/ UV-Vis	0.005
II	26	Lead chromate molybdate Sulphate red (C.I. Pigment Red 104) Δ	12656-85-8	ICP-OES/ UV-Vis	0.005
II	27	Lead sulfochromate yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ICP-OES/ UV-Vis	0.005
II	28	Tris(2-chloroethyl) phosphate	115-96-8	GC-MS	0.005
III	29	Trichloroethylene	79-01-6	GC-MS	0.005
III	30	Boric acid Δ	10043-35-3/ 11113-50-1	ICP-OES	0.005
III	31	Disodium tetraborate, anhydrous Δ	1330-43-4 12179-04-3 1303-96-4	ICP-OES	0.005
III	32	Tetraboron disodium heptaoxide, hydrate Δ	12267-73-1	ICP-OES	0.005
III	33	Sodium chromate Δ	7775-11-3	ICP-OES/ UV-Vis	0.005
III	34	Potassium chromate Δ	7789-00-6	ICP-OES/ UV-Vis	0.005
III	35	Ammonium dichromate Δ	7789-09-5	ICP-OES/ UV-Vis	0.005
III	36	Potassium dichromate Δ	7778-50-9	ICP-OES/ UV-Vis	0.005
IV	37	Cobalt(II) sulphate Δ	10124-43-3	ICP-OES	0.005
IV	38	Cobalt(II) dinitrate Δ	10141-05-6	ICP-OES	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
IV	39	Cobalt(II) carbonate Δ	513-79-1	ICP-OES	0.005
IV	40	Cobalt(II) diacetate Δ	71-48-7	ICP-OES	0.005
IV	41	2-Methoxyethanol	109-86-4	GC-MS	0.005
IV	42	2-Ethoxyethanol	110-80-5	GC-MS	0.005
IV	43	Chromium trioxide Δ	1333-82-0	ICP-OES/ UV-Vis	0.005
IV	44	Acids generated from chromium trioxide and their oligomers: Chromium acid Δ	-- 7738-94-5 13530-68-2	ICP-OES/ UV-Vis	0.005

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		Dichromium acid Δ Oligomers of chromic acid and dichromic acid Δ	--		
V	45	2-ethoxyethylacetate	111-15-9	GC-MS	0.005
V	46	1,2-Benzenedicarboxylic acid, di- C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4	GC-MS	0.005
V	47	Hydrazine	7803-57-8, 302-01-2	HPLC	0.005
V	48	1-methyl-2-pyrrolidone	872-50-4	GC-MS	0.005
V	49	1,2,3-trichloropropane	96-18-4	GC-MS	0.005
V	50	1, 2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7- rich (DIHP)	71888-89-6	GC-MS	0.005
V	51	Strontium chromate Δ	7789-06-2	ICP-OES	0.005
VI	52	Dichromium tris(chromate) Δ	24613-89-6	ICP-OES	0.005
VI	53	Potassium hydroxyoctaoxodizincatedi- chromate Δ	11103-86-9	ICP-OES	0.005
VI	54	Pentazinc chromate octahydroxide Δ	49663-84-5	ICP-OES/ UV- Vis	0.005
VI	55	Aluminosilicate, Refractory Ceramic Fibres (RCF) Δ	--	ICP-OES	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
VI	56	Zirconia Aluminosilicate, Refractory Ceramic Fibres (Zr-RCF) Δ	--	ICP-OES	0.005
VI	57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	UPLC-MS/MS	0.005
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	GC-MS	0.005
VI	59	2-Methoxyaniline; o-Anisidine	90-04-0	UPLC-MS/MS	0.005
VI	60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	GC-MS	0.005
VI	61	1,2-Dichloroethane	107-06-2	GC-MS	0.005
VI	62	Bis(2-methoxyethyl) ether	111-96-6	GC-MS	0.005
VI	63	Arsenic acid Δ	7778-39-4	ICP-OES	0.005
VI	64	Calcium arsenate Δ	7778-44-1	ICP-OES	0.005
VI	65	Trilead diarsenate Δ	3687-31-8	ICP-OES	0.005

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VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	GC-MS	0.005
VI	67	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	UPLC-MS/MS	0.005
VI	68	Phenolphthalein	77-09-8	UPLC-MS/MS	0.005
VI	69	Lead azide Lead diazide Δ	13424-46-9	ICP-OES	0.005
VI	70	Lead styphnate Δ	15245-44-0	ICP-OES	0.005
VI	71	Lead dipicrate Δ	6477-64-1	ICP-OES	0.005
VII	72	Methoxyethoxy ethane (TEGDME; triglyme)	112-49-2	GC-MS	0.005
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME)	110-71-4	GC-MS	0.005
VII	74	Diboron trioxide Δ	1303-86-2	ICP-OES	0.005
VII	75	Formamide	75-12-7	GC-MS	0.005
VII	76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	ICP-OES	0.005
VII	77	1,3,5-tris (oxiranylmethyl) -1,3,5 - triazine-2,4,6 (1H,3H,5H)-trione (TGIC)	2451-62-9	GC-MS	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
VII	78	1,3,5-tris [(2Sand2R)-2,3 - epoxypropyl] -1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6	GC-MS	0.005
VII	79	4,4'-bis (dimethylamino) benzophenone (Michler's ketone)	90-94-8	GC-MS	0.005
VII	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	GC-MS	0.005
VII	81	[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	UPLC-MS/MS	0.005
VII	82	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa -2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)	548-62-9	UPLC-MS/MS	0.005
VII	83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	UPLC-MS/MS	0.005
VII	84	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1 -	6786-83-0	UPLC-MS/MS	0.005

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		methanol (C.I. Solvent Blue 4)			
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	GC-MS	0.005
VIII	86	Pentacosafuorotridecanoic acid	72629-94-8	UPLC-MS/MS	0.005
VIII	87	Tricosafuorododecanoic acid	307-55-1	UPLC-MS/MS	0.005
VIII	88	Henicosafuoroundecanoic acid	2058-94-8	UPLC-MS/MS	0.005
VIII	89	Heptacosafuorotetradecanoic acid	376-06-7	UPLC-MS/MS	0.005
VIII	90	Diazene-1,2-dicarboxamide (C,C'- azodi(formamide))	123-77-3	HPLC	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
VIII	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	GC-MS	0.005
VIII	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	GC-MS	0.005
VIII	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,	--	GC-MS	0.005

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		covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]			
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Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
VIII	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well- defined substances and UVCB substances, polymers and homologues]	--	UPLC-MS/MS	0.005
VIII	95	Methoxyacetic acid	625-45-6	UPLC-MS/MS	0.005
VIII	96	N,N-dimethylformamide	68-12-2	GC-MS	0.005
VIII	97	Dibutyltin dichloride (DBTC) Δ	683-18-1	ICP-OES	0.005
VIII	98	Lead monoxide (Lead oxide) Δ	1317-36-8	ICP-OES	0.005
VIII	99	Orange lead (Lead tetroxide) Δ	1314-41-6	ICP-OES	0.005
VIII	100	Lead bis(tetrafluoroborate) Δ	13814-96-5	ICP-OES	0.005
VIII	101	Trilead bis(carbonate) dihydroxide Δ	1319-46-6	ICP-OES	0.005
VIII	102	Lead titanium trioxide Δ	12060-00-3	ICP-OES	0.005
VIII	103	Lead titanium zirconium oxide Δ	12626-81-2	ICP-OES	0.005
VIII	104	Silicic acid, lead salt Δ	11120-22-2	ICP-OES	0.005
VIII	105	Silicic acid (H ₂ Si ₂ O ₅), 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] Δ	68784-75-8	ICP-OES	0.005
VIII	106	1-bromopropane (n-propyl bromide)	106-94-5	GC-MS	0.005
VIII	107	Methyloxirane (Propylene oxide)	75-56-9	GC-MS	0.005
VIII	108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	GC-MS	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
VIII	109	Diisopentylphthalate (DIPP)	605-50-5	GC-MS	0.005

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VIII	110	N-pentyl-isopentylphthalate	776297-69-9	GC-MS	0.005
VIII	111	1,2-diethoxyethane	629-14-1	GC-MS	0.005
VIII	112	Acetic acid, lead salt, basic Δ	51404-69-4	ICP-OES	0.005
VIII	113	Lead oxide sulfate Δ	12036-76-9	ICP-OES	0.005
VIII	114	[Phthalato(2-)]dioxotrilead Δ	69011-06-9	ICP-OES	0.005
VIII	115	Dioxobis(stearato)trilead Δ	12578-12-0	ICP-OES	0.005
VIII	116	Fatty acids, C16-18, lead salts Δ	91031-62-8	ICP-OES	0.005
VIII	117	Lead cyanamate Δ	20837-86-9	ICP-OES	0.005
VIII	118	Lead dinitrate Δ	10099-74-8	ICP-OES	0.005
VIII	119	Pentalead tetraoxide sulphate Δ	12065-90-6	ICP-OES	0.005
VIII	120	Pyrochlore, antimony lead yellow Δ	8012-00-8	ICP-OES	0.005
VIII	121	Sulfurous acid, lead salt, dibasic Δ	62229-08-7	ICP-OES	0.005
VIII	122	Tetraethyl lead Δ	78-00-2	ICP-OES	0.005
VIII	123	Tetralead trioxide sulphate Δ	12202-17-4	ICP-OES	0.005
VIII	124	Trilead dioxide phosphonate Δ	12141-20-7	ICP-OES	0.005
VIII	125	Furan	110-00-9	GC-MS	0.005
VIII	126	Diethyl sulphate	64-67-5	GC-MS	0.005
VIII	127	Dimethyl sulphate	77-78-1	GC-MS	0.005
VIII	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	GC-MS	0.005
VIII	129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	UPLC-MS/MS	0.005
VIII	130	4,4'-methylenedi-o-toluidine	838-88-0	UPLC-MS/MS	0.005
VIII	131	4,4'-oxydianiline and its salts	101-80-4	UPLC-MS/MS	0.005
VIII	132	4-aminoazobenzene	60-09-3	UPLC-MS/MS	0.005
VIII	133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	UPLC-MS/MS	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
VIII	134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	UPLC-MS/MS	0.005
VIII	135	Biphenyl-4-ylamine	92-67-1	UPLC-MS/MS	0.005
VIII	136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	UPLC-MS/MS	0.005
VIII	137	o-toluidine	95-53-4	UPLC-MS/MS	0.005
VIII	138	N-methylacetamide	79-16-3	GC-MS	0.005
IX	139	Cadmium	7440-43-9	ICP-OES	0.005

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IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	UPLC-MS/MS	0.005
IX	141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	UPLC-MS/MS	0.005
IX	142	Dipentyl phthalate (DPP)	131-18-0	GC-MS	0.005
IX	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]	--	UPLC-MS/MS	0.005
IX	144	Cadmium oxide Δ	1306-19-0	ICP-OES	0.005
X	145	Cadmium sulphide Δ	1306-23-6	ICP-OES	0.005
X	146	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	UPLC-MS/MS	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
X	147	Dihexyl phthalate	84-75-3	GC-MS	0.005
X	148	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	UPLC-MS/MS	0.005
X	149	Trixylyl phosphate	25155-23-1	GC-MS	0.005
X	150	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red28)	573-58-0	UPLC-MS/MS	0.005
X	151	Lead di(acetate) Δ	301-04-2	ICP-OES	0.005
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	GC-MS	0.005
XI	153	Cadmium chloride Δ	10108-64-2	ICP-OES	0.005
XI	154	Sodium perborate Δ ; perboric acid, sodium salt Δ	--	ICP-OES	0.005
XI	155	Sodium peroxometaborate Δ	7632-04-4	ICP-OES	0.005

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XII	156	Cadmium fluoride Δ	7790-79-6	ICP-OES	0.005
XII	157	Cadmium sulphate Δ	10124-36-4; 31119-53-6	ICP-OES	0.005
XII	158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	GC-MS	0.005
XII	159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	GC-MS	0.005
XII	160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	ICP-OES	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
XII	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)	--	ICP-OES	0.005
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5 68648-93-1	GC-MS	0.005
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 stereoisomers of [1] and [2] or any combination thereof]	--	GC-MS	0.005
XIV	164	1,3-propanesultone	1120-71-4	GC-MS	0.005
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	GC-MS	0.005
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	GC-MS	0.005

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XIV	167	Nitrobenzene	98-95-3	GC-MS	0.005
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Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
XIV	168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	UPLC-MS/MS	0.005
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	GC-MS	0.005
XVI	170	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7	UPLC-MS/MS	0.005
XVI	171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7; 335-76-2; 3830-45-3	UPLC-MS/MS	0.005
XVI	172	4-Heptylphenol, branched and linear	--	GC-MS	0.005
XVI	173	4-tert-pentylphenol(PTAP)	80-46-6	GC-MS	0.005
XVII	174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	--	UPLC-MS/MS	0.005
XVIII	175	Chrysene	218-01-9	GC-MS	0.005
XVIII	176	Benz[a]anthracene	56-55-3	GC-MS	0.005
XVIII	177	Cadmium nitrate Δ	10325-94-7	ICP-OES	0.005
XVIII	178	Cadmium carbonate Δ	513-78-0	ICP-OES	0.005
XVIII	179	Cadmium hydroxide Δ	21041-95-2	ICP-OES	0.005
XVIII	180	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9; 135821-74-8; 135821-03-3	GC-MS	0.005
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	--	GC-MS	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
XIX	182	Octamethylcyclotetrasiloxane (D4)	556-67-2	GC-MS	0.005
XIX	183	Decamethylcyclopentasiloxane (D5)	541-02-6	GC-MS	0.005
XIX	184	Dodecamethylcyclohexasiloxane	540-97-6	GC-MS	0.005

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		(D6)			
XIX	185	Lead	7439-92-1	ICP-OES	0.005
XIX	186	Disodium octaborate Δ	12008-41-2	ICP-OES	0.005
XIX	187	Benzo[ghi]perylene	191-24-2	GC-MS	0.005
XIX	188	Terphenyl hydrogenated	61788-32-7	GC-MS	0.005
XIX	189	Ethylenediamine (EDA)	107-15-3	UPLC-MS/MS	0.005
XIX	190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	GC-MS	0.005
XIX	191	Dicyclohexyl phthalate (DCHP)	84-61-7	GC-MS	0.005
XX	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	GC-MS	0.005
XX	193	Benzo(k)fluoranthene	207-08-9	GC-MS	0.005
XX	194	Fluoranthene	206-44-0	GC-MS	0.005
XX	195	Phenanthrene	85-01-8	GC-MS	0.005
XX	196	Pyrene	129-00-0	GC-MS	0.005
XX	197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	GC-MS	0.005
XXI	198	2-methoxyethyl acetate	110-49-6	GC-MS	0.005
XXI	199	Tris(4-nonylphenyl, branched and linear) phosphite	--	GC-MS	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
XXI	200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	--	UPLC-MS/MS	0.005
XXI	201	4-tert-butylphenol	98-54-4	GC-MS	0.005
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	HPLC	0.005
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	HPLC	0.005
XXII	204	Diisohexyl phthalate	71850-09-4	GC-MS	0.005
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	--	UPLC-MS/MS	0.005
XXIII	206	1-vinylimidazole	1072-63-5	HPLC	0.005
XXIII	207	2-methylimidazole	693-98-1	HPLC	0.005
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	GC-MS	0.005
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O') tin Δ	22673-19-4	ICP-OES	0.005

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XXIV	210	Tetraethylene glycol dimethyl ether	143-24-8	GC-MS	0.005
XXIV	211	Diocetyl 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 Δ	--	ICP-OES	0.005
XXV	212	1,4-dioxane	123-91-1	GC-MS	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
XXV	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)	3296-90-0 36483-57-5 1522-92-5	GC-MS	0.005
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--	GC-MS	0.005
XXV	215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	HPLC	0.005
XXV	216	Glutaraldehyde	111-30-8	GC-MS	0.005
XXV	217	Medium-chain chlorinated paraffins (MCCP)	85535-85-9	GC-MS	0.005
XXV	218	Orthoboric acid, sodium salt	13840-56-7	ICP-OES	0.005
XXV	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)	--	GC-MS	0.005
XXVI	220	(\pm)-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)	--	GC-MS	0.010
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	GC-MS	0.010
XXVI	222	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	GC-MS	0.010
XXVI	223	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	GC-MS	0.005
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	UPLC-MS/MS	0.010

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Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	GC-MS	0.010
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	GC-MS	0.010
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	UPLC-MS/MS	0.010
XXVIII	228	Barium diboron tetraoxide Δ	13701-59-2	ICP-OES	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	GC-MS	0.010
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	UPLC-MS/MS	0.010
XXVIII	231	Melamine	108-78-1	HPLC	0.010
XXVIII	232	Perfluoroheptanoic acid and its salts	--	UPLC-MS/MS	0.010
XXVIII	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	--	GC-MS	0.010
XXIX	234	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	HPLC	0.005
XXIX	235	Bis(4-chlorophenyl) sulphone	80-07-9	GC-MS	0.005
XXX	236	2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	732-26-3	GC-MS	0.010
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol(UV-329)	3147-75-9	GC-MS	0.010
XXX	238	2-Dimethylamino-2-(4-methyl-benzyl)-1-(4-morpholin-4-yl-phenyl)-butan-1-one(PI-379)	119344-86-4	HPLC	0.010
XXX	239	Bumetrizole(UV-326)	3896-11-5	GC-MS	0.010
XXX	240	Oligomerisation and alkylaion reaction products of 2-phenylpropene and phenol	--	GC-MS	0.010
XXXI	241	Bis(α , α -dimethylbenzyl) peroxide	80-43-3	HPLC	0.005
XXXII	242	Triphenyl phosphate	115-86-6	GC-MS	0.005

Substances List and LOQ

Batch	No.	Substance Name	CAS No.	Equipment(s)	LOQ (%)
XXXIII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	GC-MS	0.005
XXXIII	244	O,O,O-triphenyl phosphorothioate	597-82-0	GC-MS	0.005
XXXIII	245	Octamethyltrisiloxane	107-51-7	GC-MS	0.010
XXXIII	246	Perfluamine	338-83-0	GC-MS	0.005

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XXXIII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	GC-MS	0.005
XXXIV	248	Decamethyltetrasiloxane	141-62-8	GC-MS	0.005
XXXIV	249	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	GC-MS	0.005
XXXIV	250	Tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[4-chloro-6-({2-[4-fluoro-6-[4-(vinylsulfonyl)phenyl]amino)-1,3,5-triazine-2-yl]amino}propyl]amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl]diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	UPLC-MS/MS	0.005

Note:

1. LOQ = Limit of Quantitation.
2. "Δ" = Determination was based on elemental analysis. The concentration was calculated based on assumption of worst-case.
3. "-" = Not Applicable.

Remarks:

1. In accordance with Regulation (EC) No. 1907/2006, any 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, namely (a) the substance is present in those article in quantities totaling over one ton per producer or importer per year; and (b) the substance is present in those articles **higher than 0.1%** weight by weight (w/w).
2. Article 33 of Regulation (EC) No. 1907/2006 requires supplier of an article containing a substance meets the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration **higher than 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.

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NOTICE

1. The report is not effective without the signature of the person(s) authorizing the report (ACT Lab's authorized signatory is John A. Bogler (President)).
2. The report is not valid if altered.
3. Claims have to be made within 15 days after receipt of this report.
4. The results of this test report relate only to the items tested.
5. The results apply to the samples as received.
6. For reports that contain results from external test service providers: Results from external test service providers are supplied by the customer and can affect validity of results.
7. Decision rule applied according to Section 4.2.1 "Binary Statement for Simple Acceptance Rule" as stated in "ILAC-G8:09/2019 - Guidelines on the Reporting of Compliance with Specification".

END OF REPORT

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