

Applicant Co., Ltd.
Address 12 B 11-13

The following sample(s) was/were submitted and identified on behalf of the client as
Sample Name Hot-melt Adhesive
Sample Mode
Manufacture Co., Ltd.

Sample Received Date 2025-04-09
Testing Period 2025-04-09 ~ 2025-04-25

Reference Requested 2025 1 21 1907/2006 REACH

Very High Concern (SVHC) testing Based on the list published by European Chemicals Agency (ECHA) on 21 Jan 2025, regarding Regulation (EC) No 1907/2006 concerning the REACH. Screening tests based on customer requirements.

Test result(s) Please refer to next page(s)

Testing Conclusion	Test Requested	Conclusion
247 SVHC 0.1% 247 SVHC substances are less than 0.1% in the submitted sample.		PASS

Approved by

Code cie2amhf



Applicant

Address

Co.,Ltd.
12 B 11-13
Block 11-13,Zone B,NO.12 Kele Avenue,Leping Town,Sanshui District,
Foshan City,Guangdong Province,China.

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

Sample Name Hot-melt Adhesive
Sample Mode HM-242
Manufacture Co.,Ltd.

Sample Received Date 2025-04-09
Testing Period 2025-04-09 ~ 2025-04-25

Reference Requested 2025 1 21
1907/2006 REACH
Very High Concern (SVHC) testing Based on the list published by
European Chemicals Agency (ECHA) on 21 Jan 2025,regarding
Regulation (EC) No 1907/2006 concerning the REACH. Screening
tests based on customer requirements.

Test result(s) Please refer to next page(s)

Testing Conclusion	Test Requested	Conclusion
247 SVHC 0.1% 247 SVHC substances are less than 0.1% in the submitted sample.		PASS



(1) 247 SVHC 247 Substances of Very High Concern(SVHC)

Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS No.	EC No.	% DL%
1	Anthracene	Refer to EPA 3540C:1996& EPA 8270E:2018, GC-MS	PBT	120-12-7	204-371-1	0.0005
2	Benzyl butyl phthalate (BBP)	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	85-68-7	201-622-7	0.003
3	Dibutyl phthalate (DBP)	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction, endocrine disrupting properties-environment	84-74-2	201-557-4	0.003
4	Bis (2-ethylhexyl)phthalate (DEHP)	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	117-81-7	204-211-0	0.003
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	Refer to EPA 3540C:1996, GC-MS	PBT	25637-99-4/ 3194-55-6 (134237-51-7,1 34237-50-6, 134237-52-8)	247-148-4/ 221-695-9	0.005
6	4,4'-Diaminodiphenylmethane (MDA)	Refer to EN 14362-1:2017, GC-MS	Carcinogen	101-77-9	202-974-4	0.005
7	C10-13 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	Refer to EPA 3540C:1996, GC-MS	PBT; vPvB	85535-84-8	287-476-5	0.01
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	Refer to EPA 3540C:1996, GC-MS	vPvB	81-15-2	201-329-4	0.005
9	Triethyl arsenate ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Carcinogen	15606-95-8	427-700-2	0.005
10	Bis(tributyltin)oxide(TBTO)	Refer to DIN EN ISO 17353:2005, GC-MS	PBT	56-35-9	200-268-0	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
11	⁽¹⁾ Cobalt dichloride ⁽¹⁾	Refer to EPA 3052:1996/ EN14582:2016, ICP-OES/IC	Carcinogen, Toxic for reproduction	7646-79-9	231-589-4	0.01
12	⁽¹⁾ Diarsenic pentaoxide ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Carcinogen	1303-28-2	215-116-9	0.01
13	⁽¹⁾ Diarsenic trioxide ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Carcinogen	1327-53-3	215-481-4	0.01
14	⁽¹⁾ Sodium dichromate ⁽¹⁾	Refer to EPA 3052:1996/ EPA 3060A:1996, EPA 9056A:2007, ICP-OES/UV-Vis	Carcinogen; Mutagen; Toxic for reproduction	7789-12-0, 10588-01-9	234-190-3	0.01
15	⁽¹⁾ Lead hydrogen arsenate ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Carcinogen; Toxic for reproduction	7784-40-9	232-064-2	0.01
16	2,4- 2,4-Dinitrotoluene	In-house method, GC-MS	Carcinogen	121-14-2	204-450-0	0.01
17	⁽²⁾ Anthracene oil ⁽²⁾	In-house method, GC-MS	Carcinogen, PBT, vPvB	90640-80-5	292-602-7	0.050
18	⁽²⁾ Anthracene oil, anthracene paste, distn. Lights ⁽²⁾	In-house method, GC-MS	Carcinogen, mutagen, PBT and vPvB	91995-17-4	295-278-5	
19	⁽²⁾ Anthracene oil, anthracene paste, anthracene fraction ⁽²⁾	In-house method, GC-MS		91995-15-2	295-275-9	
20	⁽²⁾ Anthracene oil, anthracene-low ⁽²⁾	In-house method, GC-MS		90640-82-7	292-604-8	
21	⁽²⁾ Anthracene oil, anthracene paste ⁽²⁾	In-house method, GC-MS		90640-81-6	292-603-2	
22	Diisobutyl phthalate	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	84-69-5	201-553-2	0.003

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS No.	EC No.	% DL%
23	Lead chromate ⁽³⁾	Refer to EPA 3052:1996/ EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen; Toxic for reproduction	7758-97-6	231-846-0	0.005
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ⁽³⁾			12656-85-8	235-759-9	0.005
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34) ⁽³⁾			1344-37-2	215-693-7	0.005
26	Tris(2-chloroethyl)phosphate	In-house method, GC-MS	Toxic for reproduction	115-96-8	204-118-5	0.005
27	Pitch, coal tar, high temp ⁽²⁾	In-house method, GC-MS	Carcinogen, PBT, vPvB	65996-93-2	266-028-2	0.050
28	Acrylamide	In-house method, HPLC	Carcinogen; Mutagen	79-06-1	201-173-7	0.005
29	Trichloroethylene	Refer to EPA 5021:1996, GC-MS	Carcinogen	79-01-6	201-167-4	0.01
30	Boric Acid ⁽¹⁾	In-house method, ICP-OES	Toxic for reproduction	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.01
31	Disodium Tetraborate, Anhydrous ⁽¹⁾	In-house method, ICP-OES	Toxic for reproduction	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
32	Tetraboron Disodium Heptaoxide, Hydrate ⁽¹⁾	In-house method, ICP-OES	Toxic for reproduction	12267-73-1	235-541-3	0.01
33	Sodium Chromate ⁽¹⁾	In-house method, UV-Vis	Carcinogen, Mutagen, Toxic for reproduction	7775-11-3	231-889-5	0.01
34	Potassium Chromate ⁽¹⁾	In-house method, UV-Vis	Carcinogen, Mutagen	7789-00-6	232-140-5	0.01
35	Potassium Dichromate ⁽¹⁾	In-house method, UV-Vis	Carcinogen, Mutagen, Toxic for reproduction	7778-50-9	231-906-6	0.01
36	Ammonium dichromate ⁽¹⁾	In-house method, UV-Vis	Carcinogen, Mutagen, Toxic for reproduction	7789-09-5	232-143-1	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
37	⁽¹⁾ Cobalt(II) sulphate	In-house method, ICP-OES	Carcinogen, Toxic for reproduction	10124-43-3	233-334-2	0.01
38	⁽¹⁾ Cobalt(II) dinitrate ⁽¹⁾	In-house method, ICP-OES	Carcinogen, Toxic for reproduction	10141-05-6	233-402-1	0.01
39	⁽¹⁾ Cobalt(II) carbonate ⁽¹⁾	In-house method, ICP-OES	Carcinogen, Toxic for reproduction	513-79-1	208-169-4	0.01
40	⁽¹⁾ Cobalt(II) diacetate ⁽¹⁾	In-house method, ICP-OES	Carcinogen, Toxic for reproduction	71-48-7	200-755-8	0.01
41	² 2-Methoxyethanol	In-house method, GC-MS	Toxic for reproduction	109-86-4	203-713-7	0.01
42	² 2-Ethoxyethanol	In-house method, GC-MS	Toxic for reproduction	110-80-5	203-804-1	0.01
43	⁽¹⁾ Chromium trioxide ⁽¹⁾	In-house method, UV-Vis	Carcinogen, Mutagen	1333-82-0	215-607-8	0.01
44	⁽¹⁾ Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers ⁽¹⁾	In-house method, UV-Vis	Carcinogen	7738-94-5 13530-68-2	231-801-5 236-881-5	0.01
						0.01
						0.01
45	⁽¹⁾ 2-ethoxyethyl acetate	In-house method, GC-MS	Toxic for reproduction	111-15-9	203-839-2	0.01
46	⁽¹⁾ strontium chromate ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018 ICP-OES	Carcinogen	7789-06-2	232-142-6	0.01
47	^{1,2} 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters ⁽²⁾	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	68515-42-4	271-084-6	0.01
48	⁽¹⁾ Hydrazine	In-house method, UV-Vis	Carcinogen	7803-57-8 302-01-2	206-114-9	0.01

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Reference Method

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49	1-methyl-2-pyrrolidone	Refer to EPA 8270E:2018, GC-MS	Toxic for reproduction	872-50-4	212-828-1	0.01
50	1,2,3-trichloropropane	Refer to EPA 5021:1996, GC-MS	Carcinogen, Toxic for reproduction	96-18-4	202-486-1	0.01
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich ⁽²⁾	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	71888-89-6	276-158-1	0.01
52	Dichromium tris(chromate) ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Carcinogen	24613-89-6	246-356-2	0.01
53	Potassium hydroxyoctaoxodizincatedichromate ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Carcinogen	11103-86-9	234-329-8	0.01
54	Pentazinc chromate octahydroxide ⁽³⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Carcinogen	49663-84-5	256-418-0	0.01
55	Aluminosilicate Refractory Ceramic Fibres (RCF) ⁽³⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Carcinogen	—	—	0.01
56	Zirconia Aluminosilicate Refractory Ceramic Fibres Zr-RCF ⁽³⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Carcinogen	—	—	0.01
57	Formaldehyde, oligomeric reaction products with aniline ⁽³⁾	In-house method, FTIR	Carcinogen	25214-70-4	500-036-1	0.05
58	Bis(2-methoxyethyl) phthalate	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	117-82-8	204-212-6	0.003
59	2-Methoxyaniline; o-Anisidine	Refer to EN 14362-1:2017, GC-MS	Carcinogen	90-04-0	201-963-1	0.005
60	4-(1,1,3,3-tetramethylbutyl) phenol	In-house method, GC-MS	Equivalent concern	140-66-9	205-426-2	0.005
61	1,2-Dichloroethane	Refer to EPA 5021:1996, GC-MS	Carcinogen	107-06-2	203-458-1	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
62	Bis(2-methoxyethyl) ether	Refer to EPA 8270E:2018, GC-MS	Toxic for reproduction	111-96-6	203-924-4	0.01
63	¹⁾ Arsenic acid ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Carcinogen	7778-39-4	231-901-9	0.01
64	¹⁾ Calcium arsenate ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Carcinogen	7778-44-1	231-904-5	0.01
65	¹⁾ Trilead diarsenate ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Carcinogen Toxic for reproduction	3687-31-8	222-979-5	0.01
66	N,N-dimethylacetamide	Refer to EPA 3550C:2007, GC-MS	Toxic for reproduction	127-19-5	204-826-4	0.01
67	Phenolphthalein	In-house method, HPLC	Carcinogen	77-09-8	201-004-7	0.01
68	4,4'-dichloro-2,2'-methylene dianiline	Refer to EN 14362-1:2017, GC-MS	Carcinogen	101-14-4	202-918-9	0.005
69	¹⁾ Lead diazide, Lead azide ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Toxic for reproduction	13424-46-9	236-542-1	0.01
70	2,4,6-trinitrophenylhydrazine ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Toxic for reproduction	15245-44-0	239-290-0	0.01
71	¹⁾ Lead dipicrate ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Toxic for reproduction	6477-64-1	229-335-2	0.01
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	Refer to EPA 8270E:2018, GC-MS	Toxic for reproduction	112-49-2	203-977-3	0.01
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	Refer to EPA 8270E:2018, GC-MS	Toxic for reproduction	110-71-4	203-794-9	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
74	⁽¹⁾ Diboron trioxide ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Toxic for reproduction	1303-86-2	215-125-8	0.01
75	Formamide	Refer to EPA 8270E:2018, GC-MS	Toxic for reproduction	75-12-7	200-842-0	0.01
76	⁽¹⁾ Lead(II) bis(methanesulfonate) ⁽¹⁾	Refer to EPA 3052:1996, EPA 6010D:2018, ICP-OES	Toxic for reproduction	17570-76-2	401-750-5	0.01
77	TGIC 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	In-house method, GC-MS	Mutagen	2451-62-9	219-514-3	0.01
78	1,3,5- ^(2S) 2R ^(2,3) -1,3,5- ^(2,4,6) 1H,3H,5H- ⁽⁴⁾ β-TGIC 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) ⁽⁴⁾	Refer to EPA 8270E:2018, GC-MS	Mutagen	59653-74-6	423-400-0	0.01
79	4'-N,N- 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	Refer to EPA 8270E:2018, GC-MS	Carcinogen	90-94-8	202-027-5	0.01
80	N,N,N',N'-4,4'- N,N,N',N'-tetramethyl-4,4'-methylene dianiline (Michler's base)	Refer to EPA 8270E:2018, GC-MS	Carcinogen	101-61-1	202-959-2	0.01
81	4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	HPLC In-house method, HPLC	Carcinogen	548-62-9	208-953-6	0.01
82	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	HPLC In-house method, HPLC	Carcinogen	2580-56-5	219-943-6	0.01
83	A,A-4- -1- α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	HPLC In-house method, HPLC	Carcinogen	6786-83-0	229-851-8	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
84	α,α -4-4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	HPLC In-house method, HPLC	Carcinogen	561-41-1	209-218-2	0.01
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	Refer to IEC 62321-6 Edition 1.0:2015, GC-MS	PBT, vPvB	1163-19-5	214-604-9	0.005
86	Pentacosafuorotridecanoic acid	Refer to EPA 3550C:2007 LC-MS/MS	vPvB	72629-94-8	276-745-2	0.005
87	Tricosafuorododecanoic acid			307-55-1	206-203-2	0.005
88	Henicosafuoroundecanoic acid	Refer to EPA 3550C:2007 LC-MS/MS	vPvB	2058-94-8	218-165-4	0.005
89	Heptacosafuorotetradecanoic acid			376-06-7	206-803-4	0.005
90	UVCB ²⁾ 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated ⁽²⁾	Refer to EPA 3550C:2007 GC-MS	Equivalent concern	---	---	0.01
91	UVCB ²⁾ 4-Nonylphenol, branched and linear ⁽²⁾		Equivalent concern	---	---	0.01
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	Refer to EPA 3550C:2007 HPLC	Equivalent concern	123-77-3	204-650-8	0.005

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
93	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	Refer to EPA 3540C:1996 GC-MS	Equivalent concern	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.01
94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride		Equivalent concern	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.01
95	Methoxy acetic acid	Refer to EPA 3550C:2007 GC-MS	Toxic for reproduction; Equivalent concern	625-45-6	210-894-6	0.01
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	Refer to EPA 8061A:1996 GC-MS	Toxic for reproduction	84777-06-0	284-032-2	0.01
97	Diisopentylphthalate			605-50-5	210-088-4	0.003
98	N-pentyl-isopentylphthalate			776297-69-9	---	0.003
99	1,2-Diethoxyethane	Refer to EPA 3550C:2007, GC-MS	Toxic for reproduction	629-14-1	211-076-1	0.01
100	N,N-dimethylformamide	Refer to EPA 3550C:2007, GC-MS	Toxic for reproduction	68-12-2	200-679-5	0.005
101	Dibutyltin dichloride (DBTC)	Refer to DIN EN ISO 17353:2005, GC-MS	Toxic for reproduction	683-18-1	211-670-0	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
102	⁽¹⁾ Acetic acid, lead salt, basic ⁽¹⁾	Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018 ICP-OES	Toxic for reproduction	51404-69-4	257-175-3	0.01
103	⁽¹⁾ trilead bis(carbonate)dihydroxide ⁽¹⁾			1319-46-6	215-290-6	0.01
104	⁽¹⁾ lead oxide sulphate ⁽¹⁾			12036-76-9	234-853-7	0.01
105	⁽¹⁾ [Phthalato(2-)]dioxotrilead ⁽¹⁾	Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018/ EPA 3550C:2007 ICP-OES & GC-MS	Toxic for reproduction	69011-06-9	273-688-5	0.01
106	⁽¹⁾ Dioxobis(stearato)trilead ⁽¹⁾			12578-12-0	235-702-8	0.01
107	⁽¹⁾ C16-18, lead salts ⁽¹⁾ Fatty acids, C16-18, lead salts ⁽¹⁾			91031-62-8	292-966-7	0.01
108	⁽¹⁾ Lead bis(tetrafluoroborate) ⁽¹⁾	Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018 ICP-OES	Toxic for reproduction	13814-96-5	237-486-0	0.01
109	⁽¹⁾ Lead cyanamate ⁽¹⁾			20837-86-9	244-073-9	0.01
110	⁽¹⁾ Lead dinitrate ⁽¹⁾	Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018 ICP-OES	Toxic for reproduction	10099-74-8	233-245-9	0.01
111	⁽¹⁾ Lead monoxide (lead oxide) ⁽¹⁾			1317-36-8	215-267-0	0.01
112	⁽¹⁾ Orange lead (lead tetroxide) ⁽¹⁾			1314-41-6	215-235-6	0.01
113	⁽¹⁾ Lead titanium trioxide ⁽¹⁾	Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018/ EPA 3050B:1996, ICP-OES	Toxic for reproduction	12060-00-3	235-038-9	0.01
114	⁽¹⁾ Lead Titanium Zirconium Oxide ⁽¹⁾			12626-81-2	235-727-4	0.01
115	⁽³⁾ Pentalead tetraoxide sulphate ⁽³⁾			12065-90-6	235-067-7	0.01
116	⁽³⁾ Pyrochlore, antimony lead yellow ⁽³⁾			8012-00-8	232-382-1	0.01
117	⁽³⁾ Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped ⁽³⁾	Refer to EPA 3052:1996/ EPA 6010D:2018, ICP-OES	Toxic for reproduction	68784-75-8	272-271-5	0.01
118	⁽¹⁾ Silicic acid, lead salt ⁽¹⁾			11120-22-2	234-363-3	0.01
119	⁽¹⁾ Sulfurous acid, lead salt, dibasic ⁽¹⁾			62229-08-7	263-467-1	0.01
120	⁽¹⁾ Tetraethyllead ⁽¹⁾	Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018/ EPA 3550C:2007, ICP-OES & GC-MS	Toxic for reproduction	78-00-2	201-075-4	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
121	⁽¹⁾ Tetralead trioxide sulphate ⁽¹⁾	Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018, ICP-OES	Toxic for reproduction	12202-17-4	235-380-9	0.01
122	⁽¹⁾ Trilead dioxide phosphonate ⁽¹⁾			12141-20-7	235-252-2	0.01
123	Furan	Refer to EPA 5021:1996, GC-MS	Carcinogen	110-00-9	203-727-3	0.01
124	Methyloxirane (Propylene oxide)		Carcinogen, Mutagen	75-56-9	200-879-2	0.01
125	Diethyl sulphate	Refer to EPA 3550C:2007, HPLC	Carcinogen, Mutagen	64-67-5	200-589-6	0.01
126	Dimethyl sulphate		Carcinogen	77-78-1	201-058-1	0.01
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Refer to EPA 3550C:2007 GC-MS	Toxic for reproduction	143860-04-2	421-150-7	0.01
128	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	Refer to EPA 3550C:2007 GC-MS	Toxic for reproduction	88-85-7	201-861-7	0.01
129	4,4'-methylene-di-o-toluidine	Refer to EN 14362-1&3:2017, GC-MS	Carcinogen	838-88-0	212-658-8	0.005
130	4,4'-oxydianiline and its salts		Carcinogen, Mutagen	101-80-4	202-977-0	0.005
131	4-Aminoazobenzene	Refer to EN14362-1&3:2017, GC-MS	Carcinogen	60-09-3	200-453-6	0.005
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	Refer to EN 14362-1:2017, GC-MS	Carcinogen	95-80-7	202-453-1	0.01
133	6-methoxy-m-toluidine (p-cresidine)		Carcinogen	120-71-8	204-419-1	0.01
134	Biphenyl-4-ylamine		Carcinogen	92-67-1	202-177-1	0.005
135	o-aminoazotoluene		Carcinogen	97-56-3	202-591-2	0.005
136	o-Toluidine		Carcinogen	95-53-4	202-429-0	0.005

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
137	N-methylacetamide	Refer to EPA 3550C:2007, GC-MS	Toxic for reproduction	79-16-3	201-182-6	0.01
138	1-bromopropane (n-propyl bromide)	Refer to EPA 5021:1996, GC-MS	Toxic for reproduction	106-94-5	203-445-0	0.01
139	Cadmium	Refer to EPA 3052:1996, ICP-OES	Carcinogen, Equivalent concern	7440-43-9	231-152-8	0.005
140	¹ Cadmium oxide ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Carcinogen, Equivalent concern	1306-19-0	215-146-2	0.005
141	Dipentyl phthalate (DPP)	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	131-18-0	205-017-9	0.003
142	UVCB ² 4-Nonylphenol, branched and linear, ethoxylated ⁽²⁾	Refer to EPA 3550C:2007, GC-MS	Equivalent concern	—	—	0.01
143	Ammonium pentadecafluorooctanoate (APFO)	Refer to EPA 3550C:2007, LC-MS/MS	Toxic for reproduction, PBT	3825-26-1	223-320-4	0.005
144	Pentadecafluorooctanoic acid (PFOA)	Refer to EPA 3550C:2007, LC-MS/MS	Toxic for reproduction, PBT	335-67-1	206-397-9	0.005
145	¹ Cadmium sulphide ⁽¹⁾	Refer to EPA3052:1996, ICP-OES	Carcinogen, Equivalent concern	1306-23-6	215-147-8	0.005
146	C.I. 38 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)	In-house method, HPLC	Carcinogen	1937-37-7	217-710-3	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS No.	EC No.	% DL%
147	Dihexyl phthalate	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	84-75-3	201-559-5	0.003
148	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	In-house method, GC-MS	Toxic for reproduction	96-45-7	202-506-9	0.01
149	Triethyl phosphate	Refer to EPA 8270E:2018, GC-MS	Toxic for reproduction	25155-23-1	246-677-8	0.05
150	C.I. 28 Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	In-house method, HPLC	Carcinogen	573-58-0	209-358-4	0.01
151	Lead di(acetate) ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Toxic for reproduction	301-04-2	206-104-4	0.01
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	68515-50-4	271-093-5	0.003
153	Sodium perborate; perboric acid, sodium salt ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Toxic for reproduction	—	239-172-9 234-390-0	0.01
154	Sodium peroxometaborate ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Toxic for reproduction	7632-04-4	231-556-4	0.01
155	⁽¹⁾ Cadmium chloride ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	CMR, Equivalent concern	10108-64-2	233-296-7	0.01
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	Refer to EPA 3540C:1996, GC-MS	PBT, vPvB	3846-71-7	223-346-6	0.01
157	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	Refer to EPA 3540C:1996, GC-MS	PBT, vPvB	25973-55-1	247-384-8	0.01
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate (DOTE) ⁽²⁾	Refer to EPA 3052:1996, ICP-OES	Toxic for reproduction	15571-58-1	239-622-4	0.05

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
159	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) ⁽²⁾⁽³⁾	Refer to EPA 3052:1996 ICP-OES	Toxic for reproduction	---	---	0.05
160	⁽¹⁾ Cadmium fluoride⁽¹⁾	Refer to EPA 3052:1996 ICP-OES	Carcinogen, Mutagen, Toxic for reproduction, Equivalent concern	7790-79-6	232-222-0	0.01
161	⁽¹⁾ Cadmium sulphate⁽¹⁾	Refer to EPA 3052:1996 ICP-OES	Carcinogen, Mutagen, Toxic for reproduction, Equivalent concern	10124-36-4 31119-53-6	233-331-6	0.01
162	1,2-⁽²⁾ C6-C10 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 (EC No. 201-559-5) ⁽²⁾	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction	68515-51-5 68648-93-1	271-094-0 272-013-1	0.01
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] ⁽²⁾	Refer to EPA 8270E:2018, GC-MS	vPvB	---	---	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS No.	EC No.	% DL%
164	1,3- 1,3-propanesultone	In-house method,GC-MS	Carcinogen	1120-71-4	214-317-9	0.01
165	2-(2'- 3',5'- JV327 2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	Refer to EPA 3540C:1996 GC-MS	vPvB	3864-99-1	223-383-8	0.01
166	2-(2'- 3'- 5'- JV350 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl) phenol(UV-350)	Refer to EPA 3540C:1996 GC-MS	vPvB	36437-37-3	253-037-1	0.01
167	Nitrobenzene	Refer to EPA 8270E:2018, GC-MS	Toxic for reproduction	98-95-3	202-716-0	0.01
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts ⁽²⁾	Refer to EPA 3550C:2007, LC-MS/MS	Toxic for reproduction, PBT	375-95-1 21049-39-8 4149-60-4	206-801-3	0.005
169	Benzo[def]chrysene (Benzo[a]pyrene)	Refer to EPA 3540C:1996, GC-MS	Carcinogenic, Mutagenic, Toxic for reproduction, PBT, vPvB	50-32-8	200-028-5	0.050
170	4- 4-Heptylphenol,branched and linear ⁽³⁾	HPLC In-house method,HPLC	Equivalent concern	1987-50-4	217-862-0	0.004
171	Nonadecafluorodecanoic acid and its sodium and ammonium salts ⁽³⁾	LC-MS/MS In-house method,LC-MS/MS	Toxic for reproduction, vPvB	335-76-2 3830-45-3 3108-42-7	206-400-3 221-470-5	0.005
172	p-(1,1-dimethylpropyl)phenol	HPLC In-house method,HPLC	Equivalent concern	80-46-6	201-280-9	0.004
173	4,4'- 4,4'-isopropylidenediphenol (bisphenol A; BPA)	HPLC In-house method,HPLC	Toxic for reproduction, endocrine disrupting properties	80-05-7	201-245-8	0.004

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS No.	EC No.	% DL%
174	Perfluorohexane-1-sulphonic acid and its salts	UPLC-MS/MS In-house method,UPLC-MS/MS	vPvB	355-46-4	206-587-1	0.005
175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	In-house method,GC-MS	vPvB	13560-89-9 135821-74-8 135821-03-3	236-948-9 — —	0.0004
176	Benz[a]anthracene	In-house method,GC-MS	Carcinogen, PBT, vPvB	56-55-3	200-280-6	0.05
177	Chrysene			218-01-9	205-923-4	0.05
178	Cadmium nitrate ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Carcinogenic, Mutagenic, After repeated contact, Poisoning caused a particular organ	10325-94-7	233-710-6	0.01
179	Cadmium carbonate ⁽¹⁾			513-78-0	208-168-9	0.01
180	Cadmium hydroxide ⁽¹⁾			21041-95-2	244-168-5	0.01
181	1,3,4- 4- 4- ≥0.1% w / w ⁽²⁾ 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] ⁽²⁾	In-house method, GC-MS	endocrine disrupting properties-environment	—	—	0.04
182	Benzo[ghi]perylene	In-house method,GC-MS		191-24-2	205-883-8	0.050
183	Decamethylcyclopentasiloxane (D5)	In-house method,GC-MS	Carcinogen, PBT, vPvB	541-02-6	208-764-9	0.00001

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
184	Disodium octaborate ⁽¹⁾	Refer to EPA 3052:1996, ICP-OES	Toxic for reproduction	12008-41-2	234-541-0	0.01
185	Dodecamethylcyclotetrasiloxane (D6)	In-house method, GC-MS	Carcinogen, PBT, vPvB	540-97-6	208-762-8	0.00001
186	Ethylenediamine	In-house method, GC-MS	Equivalent concern	107-15-3	203-468-6	0.015
187	Lead	Refer to EPA 3052:1996/ EPA6010D:2018, ICP-OES	Toxic for reproduction	7439-92-1	231-100-4	0.01
188	Octamethylcyclotetrasiloxane (D4)	In-house method, GC-MS	Carcinogen, PBT, vPvB	556-67-2	209-136-7	0.00001
189	Terphenyl hydrogenated	In-house method, GC-MS	vPvB	61788-32-7	262-967-7	0.001
190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	In-house method, GC-MS	Equivalent concern	552-30-7	209-008-0	0.01
191	Dicyclohexyl phthalate(DCHP)	In-house method, GC-MS	Toxic for reproduction	84-61-7	201-545-9	0.003
192	4,4'-(1,3-bis(4-hydroxyphenyl)-4-methylpentane	In-house method, GC-MS	Toxic for reproduction	6807-17-6	401-720-1	0.004
193	Benzo[k]fluoranthene	In-house method, GC-MS	Carcinogen, PBT, vPvB	207-08-9	205-916-6	0.05
194	Fluoranthene	In-house method, GC-MS	PBT, vPvB	206-44-0	205-912-4	0.05

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
195	Phenanthrene	In-house method,GC-MS	/PvB	85-01-8	201-581-5	0.05
196	Pyrene	In-house method,GC-MS	PBT, vPvB	129-00-0	204-927-3	0.05
197	1,7,7,3-2,2,1-2-3-3-benzylidene camphor	In-house method,GC-MS	Endocrine disrupting properties	15087-24-8	239-139-9	0.0015
198	2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)(HFPO-DA) ⁽²⁾	In-house method LC-MS/MS	Equivalent concern	—	—	0.0050
199	2-methoxyethyl acetate	In-house method,GC-MS	Toxic for reproduction	110-49-6	203-772-9	0.00008
200	Tris (4-nonylphenyl, branched) phosphite	In-house method,LC	endocrine disrupting properties-environment	—	701-028-2	0.0050
201	4-tert-butylphenol	In-house method,GC-MS	Equivalent concern	98-54-4	202-679-0	0.012
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	In-house method,LC	Toxic for reproduction	119313-12-1	404-360-3	0.00075
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	In-house method,LC	Toxic for reproduction	71868-10-5	400-600-6	0.00075
204	Diisohexyl phthalate	In-house method,GC-MS	Toxic for reproduction	71850-09-4	276-090-2	0.003

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
205	PFBS Perfluorobutane sulfonic acid (PFBS) and its salts	In-house method, LC-MS/MS	Equivalent concern	—	—	0.005
206	1-1-vinylimidazole	In-house method, GC-MS	Toxic for reproduction	1072-63-5	214-012-0	0.004
207	2-2-methylimidazole	In-house method, GC-MS	Toxic for reproduction	693-98-1	211-765-7	0.004
208	4-Butyl 4-hydroxybenzoate	In-house method, GC-MS	Endocrine disrupting properties—human health	94-26-8	202-318-7	0.003
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	In-house method, GC-MS	Toxic for reproduction	22673-19-4	245-152-0	0.01
210	Bis(2-(2-methoxyethoxy)ethyl) ether; (Tetraglyme)	In-house method, GC-MS	Toxic for reproduction	143-24-8	205-594-7	0.01
211	C12⁽¹⁾ Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety⁽¹⁾ Stannane, dioctyl-, bis(coco acyloxy) derivs.⁽¹⁾ (CAS No.: 91648-39-4 EC No.: 293-901-5) Diocetyl tin dilaurate⁽¹⁾ (CAS No.: 3648-18-8 EC No.: 222-883-3)	In-house method, ICP-OES	Toxic for reproduction	—	—	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
212	1,4-1,4-dioxane	In-house method, GC-MS	Equivalent concern	123-91-1	204-661-8	0.01
213	2,2-bis(bromomethyl) propane1,3-diol(BMP)	In-house method, GC-MS	Carcinogen	3296-90-0	221-967-7	0.005
	2,2-dimethylpropan-1-ol, tribromoderivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)			36483-57-5/ 1522-92-5	253-057-0	0.005
	2,3-dibromo-1-propanol (2,3-DBPA)			96-13-9	202-480-9	0.005
214	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers ⁽²⁾	In-house method, GC-MS	Toxic for reproduction	—	—	0.005
215	4,4'-(1-methylpropylidene) bisphenol (bisphenol B)	In-house method, GC-MS	Endocrine disrupting properties	77-40-7	201-025-1	0.005
216	Glutaral	In-house method, GC	respiration sensitivity characteristics - human health	111-30-8	203-856-5	0.001
217	(MCCP) (UVCB) $\geq 80\%$ C ₁₄ -C ₁₇ 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 C ₁₄ to C ₁₇] ⁽²⁾	In-house method, GC-MS	PBT, vPvB	—	—	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
218	⁽¹⁾ Orthoboric acid, sodium salt ⁽¹⁾	In-house method, ICP-OES	Toxic for reproduction	13840-56-7	237-560-2	0.01
219	C ₁₂ (PDDP) ⁽²⁾ Phenol, alkylation products (mainly in para position) with C ₁₂ -rich branched or linear alkyl chains from oligomerisation, covering any individual ⁽²⁾	In-house method, GC-MS	Toxic for reproduction; Endocrine disrupting properties	—	—	0.003
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene] bicyclo[2.2.1] heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	In-house method, GC-MS	Endocrine disrupting properties-human health	—	—	0.01
221	2,2'-bis(4-methyl-6-tert-butyl-4-methylphenyl)propane (DBMC) 6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol	In-house method, GC-MS	Toxic for reproduction	119-47-1	204-327-1	0.01
222	S-(tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate ⁽¹⁾	In-house method, GC-MS & ICP-OES	PBT	255881-94-8	401-850-9	0.05
223	Tris(2-methoxyethoxy)vinylsilane	In-house method, GC-MS	Toxic for reproduction	1067-53-4	213-934-0	0.01
224	N-(hydroxymethyl)acrylamide	In-house method, HPLC	Carcinogen, Mutagen	924-42-5	213-103-2	0.005
225	1,2-bis(2,4,6-tribromophenoxy)ethane 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	Refer to EPA 3550C:2007, GC-MS	vPvB	37853-59-1	253-692-3	0.005
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	Refer to EPA 3550C:2007, GC-MS	Carcinogenic	79-94-7	201-236-9	0.005

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
227	S 4,4'-sulphonyldiphenol	Refer to EPA 3550C:2007, GC-MS	Toxic for Reproduction, endocrine disrupting properties- environment; Endocrine disrupting properties- human health	80-09-1	201-250-5	0.005
228	⁽³⁾ Barium diboron tetraoxide ⁽³⁾	Refer to EPA 3052:1996/ EPA 6010D:2018, ICP-OES	Toxic for reproduction	13701-59-2	237-222-4	0.01
229	3,4,5,6-1,2-2- Bis(2-ethylhexyl)tetrabromophthalate covering any of the individual isomers and/or combinations thereof	Refer to EPA 3550C:2007, GC-MS	vPvB	—	—	0.005
230	4-2- Isobutyl 4-hydroxybenzoate	Refer to EPA 8061A:1996, GC-MS	Endocrine disrupting properties-human health	4247-02-3	224-208-8	0.005
231	Melamine	In-house method, LC	Equivalent level of concern having probable serious effects to human health or the environment	108-78-1	203-615-4	0.005

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
232	Perfluoroheptanoic acid and its salts	Refer to EPA 3550C:2007& EPA 8321B:2007, LC-MS	Toxic for reproduction; PBT;vPvB; Equivalent level of concern having probable serious effects to human health or the environment	—	—	0.01
233	2,2,3,3,5,5,6,6-tetrafluoro-4-(1,1,1,2,3,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine ⁽¹⁾	Refer to EN14582:2016, IC	vPvB	—	473-390-7	0.01
234	4,4'-bis(4-chlorophenyl) sulphone	In-house method, GC-MS	vPvB	80-07-9	201-247-9	0.0005
235	2,4,6-trimethylbenzoyl)phosphineoxide	In-house method, GC-MS	Toxic for reproduction	75980-60-8	278-355-8	0.0025
236	(UV326) Bumetrizole	In-house method,GC-MS	vPvB	3896-11-5	223-445-4	0.0025
237	(4-(dimethylamino)-2-[(4-methylphenyl) methyl]-1-[4-(morpholin-4-yl) phenyl] butan-1-one(UV-379)	In-house method,LC-MS/MS	Toxic for reproduction	119344-86-4	438-340-0	0.00075
238	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	In-house method,GC-MS	Toxic for reproduction	3147-75-9	221-573-5	0.0025
239	2,4,6-tri-tert-butylphenol	In-house method,GC-MS	Toxic for reproduction, PBT,vPvB	732-26-3	211-989-5	0.0025
240	2-(OAPP)	In-house method,GC-MS	Endocrine disrupting properties-human health	—	700-960-7	0.0025
241	Bis(α,α-dimethylbenzyl) peroxide	In-house method,LC	Toxic for reproduction	80-43-3	201-279-3	0.01

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Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
242	Triphenyl phosphate	In-house method,GC-MS	endocrine disrupting properties-environment	115-86-6	204-112-2	0.0025
243	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives ⁽³⁾	Refer to EPA 3052:1996, ICP-OES	PBT	192268-65-8	421-820-9	0.01
244	Perfluamine	Refer to EPA 3550C:2007, EPA 8082A:2007, GC	vPvB	338-83-0	206-420-2	0.01
245	Octamethyltrisiloxane	In-house method,GC-MS	vPvB	107-51-7	203-497-4	0.0025
246	O,O,O-triphenyl phosphorothioate	In-house method,GC-MS	PBT	597-82-0	209-909-9	0.0025
247	6-[(C10-C13)-2,5-1-6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl] hexanoic acid	Refer to EPA 3550C:2007 method,GC-MS	Toxic for reproduction	2156592-54-8	701-118-1	0.0025

(2) 1 SVHC Substance to propose as Substances of Very High Concern(SVHC)

Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
1	Resorcinol	In-house method,GC-MS	Endocrine disrupting properties-human health	108-46-3	203-585-2	0.001

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Test Report

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(3) 5 SVHC Pre-selected substance of Very High Concern (SVHC)
Reference Method

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification	CAS CAS No.	EC EC No.	% DL%
1	Dodecamethylpentasiloxane	In-house method, GC-MS	vPvB	141-63-9	205-492-2	0.0025
2	Decamethyltetrasiloxane	In-house method, GC-MS	vPvB	141-62-8	205-491-7	0.0025
3	1,1,1,3,5,5,5,3-trimethyl-1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	In-house method, GC-MS	vPvB	17928-28-8	241-867-7	0.0025
4	7-[(E)-2- -4-[(E)-4-[(4- -6-[(2-[(4- -6-[(4- -1,3,5- -2- -1,3,5- -2- -5- -1- -5- -1,3,6- 51 ⁽¹⁾ 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) ⁽¹⁾	Refer to EN14582:2016, IC	Toxic for reproduction	—	466-490-7	0.01
5	n-hexane	Refer to EPA 3550C:2007 method, GC-MS	Equivalent level of concern having probable serious effects to human health	110-54-3	203-777-6	0.0025

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(1) 247 SVHC 247 Substances of Very High Concern(SVHC)

Test result Unit %

No.	Substance Name(s)	Test Result
1-247	SVHC All tested SVHC in candidate list	N.D.

(2) 1 SVHC 1 Substance to propose as Substances of Very High Concern(SVHC)

Test result Unit %

No.	Substance Name(s)	Test Result
1	SVHC All substance to propose as Substances of Very High Concern	N.D.

(3) 5 SVHC 5 Pre-selected substance of Very High Concern (SVHC)

Test result Unit %

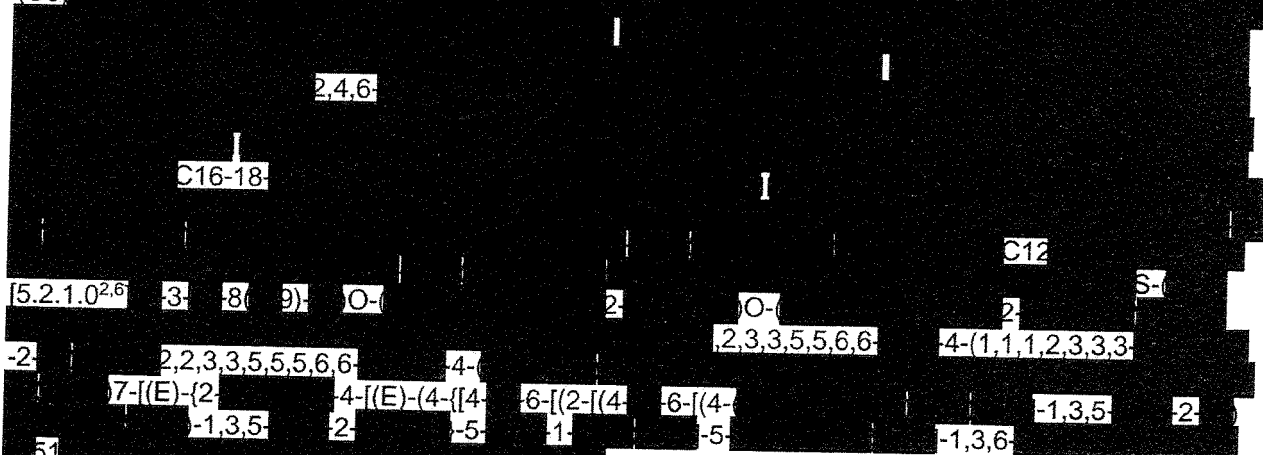
No.	Substance Name(s)	Test Result
1-5	SVHC All pre-selected SVHC	N.D.

Note: DL = Detection Limit

N.D. = Not Detected (<DL)

0.1% = 1000 mg/kg = 1000 ppm mg/kg = ppm

(1) (Co) (Cl)



(2) UVCB

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(3)

(4)

TGIC

β-TGIC

ECHA

β-TGIC

TGIC

1:10

β-TGIC

1/10 TGIC

(1): PBT=Persistent, bioaccumulative and toxic; vPvB=very Persistent very

Bioaccumulative Concentration value of Cobalt dichloride is by the conversion from the test results of Cobalt and Chlorine. Concentration value of Cobalt(II) sulphate, Cobalt(II) dinitrate, Cobalt(II) carbonate, Cobalt(II) diacetate are by the conversion from the test results of Cobalt and Acid.

Concentration value of Triethyl arsenate, Diarsenic pentaoxide, Diarsenic trioxide, Sodium dichromate, Lead hydrogen arsenate, Chromium trioxide, Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers (Chromic acid/ Dichromic acid/ Oligomers of chromic acid and dichromic acid), Strontium chromate, Boric acid, Disodium Tetraborate. Anhydrous, Tetraboron disodium heptaoxide, hydrate, Sodium chromate, Potassium chromate, Potassium dichromate, Ammonium dichromate, Dichromium tris(chromate), Potassium hydroxyoctaoxodizincatedichromate, Arsenic acid, Calcium arsenate, Trilead diarsenate, Lead diazide, Lead azide, Lead styphnate, Lead dipicrate, Diboron trioxide, Lead(II) bis(methanesulfonate), Acetic acid, lead salt, basic, Trilead bis(carbonate)dihydroxide, Lead oxide sulphate, Lead bis(tetrafluoroborate), Lead cyanamide, Lead dinitrate, Lead monoxide (lead oxide), Orange lead (lead tetroxide), Lead titanium trioxide, Lead titanium zirconium oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Sulfurous acid, lead salt, Silicic acid, lead salt, Sulfurous acid, lead salt, dibasic, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Tetraethyllead, [Phthalato(2-)]dioxotrillead, Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Cadmium oxide, Cadmium sulphide, Lead di(acetate), Sodium perborate; perboric acid, sodium salt, Sodium peroxometaborate, Cadmium chloride, Cadmium fluoride and Cadmium sulphate, Cadmium nitrate, Cadmium carbonate, Cadmium hydroxide, Disodium octaborate, 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/Stannane, dioctyl-, bis(coco acyloxy) derivs./Dioctyltin dilaurate, Orthoboric acid, sodium salt, 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 are by the conversion from the test results of corresponding Inorganic elements. 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 are by the conversion from the test results of fluorine. 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-sulfato-1-naphthyl)diazenyl]-5-methoxyphenyl)diazenyl]-1,3,6-naphthalenetrisulfonate(Reactive Brown 51) are by the conversion from the test results of fluorine and chlorine.

(2): In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

(3): when tested substances contain variable compounds, the test results are calculated based on main constituents of the representative compounds for the substances. The test results of the representative compounds are calculated based on the result of specified heavy metal elements.

(4): TGIC is a mixture and also contains β-TGIC. According to the ECHA's technical dossier the ratio of β-TGIC to TGIC is around 1 to 10. Therefore β-TGIC is issued based on the above-mentioned ratio.

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Remarks

1. ECHA 2025 1 21
<http://echa.europa.eu/web/guest/candidate-list-table>
<https://echa.europa.eu/fr/registry-of-svhc-intentions>
2. 1907/2006(EC) 57 59 7 4 (a)
1 (b) 0.1%
3. 1907/2006(EC) 33 57 59 0.1%
4. MTCJPH9G7274537D5 MTCJPH9G7274537D5
2025-04-27

1. The chemical analysis of specific SVHC is performed by means of currently available analytical. Techniques in the list published by ECHA on 21 Jan 2025 shall refer to:
<http://echa.europa.eu/web/guest/candidate-list-table>
<https://echa.europa.eu/fr/registry-of-svhc-intentions>
2. 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, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
3. 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.
4. The original report which report No. is MTCJPH9G7274537D5 be replaced by this report, and it will be canceled immediately and doesn't have any legal validity. Please compliance with this report.
2025-04-27

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Person in charge of the lab

Dilution by adding DI water

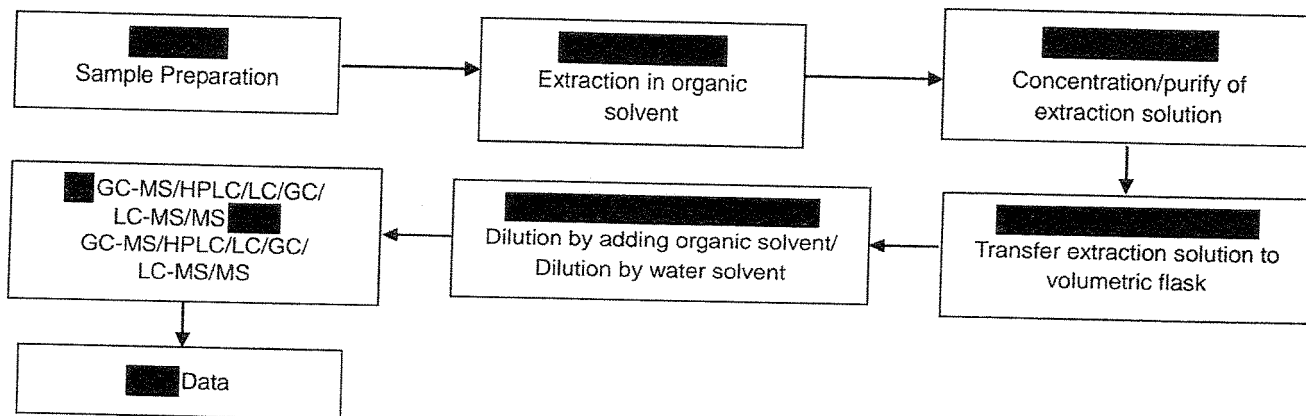
Measurement Flow-chart

Tested by

Checked by

Person in charge of the lab

2. Determination of Anthracene/4,4'-Diaminodiphenylmethane (MDA)/5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)/Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane/Beta-hexabromocyclododecane/Gamma-hexabromocyclododecane/Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)/Bis(tributyltin)oxide (TBTO)/Benzyl butyl phthalate (BBP)/Bis (2-ethylhexyl)phthalate (DEHP)/Dibutyl phthalate (DBP)/2,4-Dinitrotoluene/Anthracene oil/Anthracene oil, anthracene paste, distn. Lights/Anthracene oil, anthracene paste, anthracene fraction/Anthracene oil, anthracene-low/Tris(2-chloroethyl) phosphate/Pitch, coal tar, high temp /Acrylamide/2-Methoxyethanol/2-Ethoxyethanol/2-ethoxyethyl acetate/1,2-C7-11/1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters /1-methyl-2-pyrrolidone/1,2,3-1,2,3-trichloropropane/C6-8/C7 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich/Bis(2-methoxyethyl) phthalate/2-Methoxyaniline, o-Anisidine/4-(1,1,3,3-tetramethylbutyl)phenol /1,2-Dichloroethane/Bis(2-methoxyethyl) ether/ N,N-N,N-dimethylacetamide/Phenolphthalein /4,4'-2,2'-dichloro-4,4'-methylenedianiline/1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)/1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)/Formamide/TGIC 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)/1,3,5-2S-2R-2,3-1,3,5-1H,3H,5H-β-TGIC 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)/4'-N,N-4,4'-bis(dimethylamino)benzophenone (Michler's ketone)/N,N,N'-4,4'-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)/4-[[4-anilino-1-naphthyl][4-(dimethylamino) phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) /A,A'-4-1-α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)/α,α'-4-4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol



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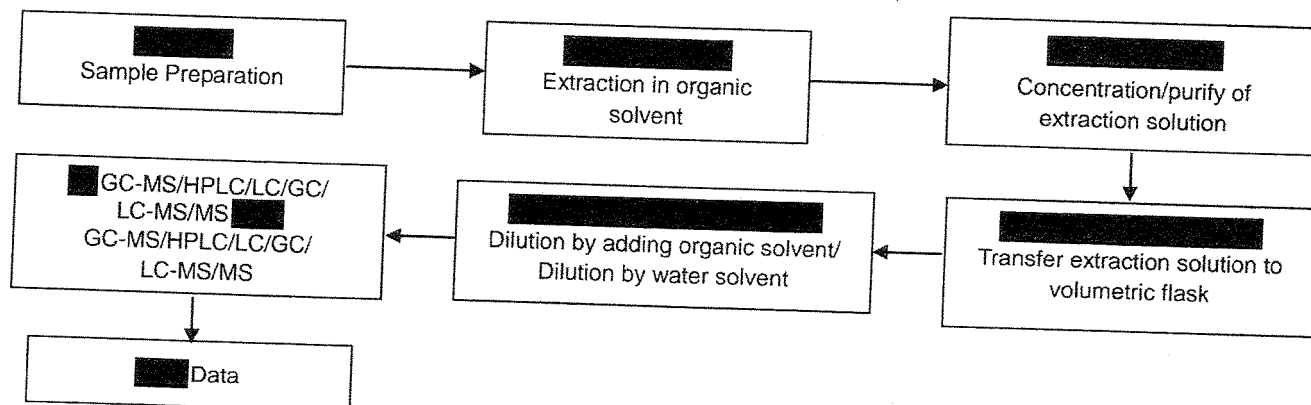
Tested by

Measurement Flow-chart

Checked by

Person in charge of the lab

3. Determination of Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)/
Pentacosfluorotridecanoic acid, Tricosfluorododecanoic acid, Henicosfluoroundecanoic
Heptacosfluorotetradecanoic acid, UVCB
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated
UVCB
Diazene-1,2-dicarboxamide(C,C'-azodi(formamide)), 4-Nonylphenol, branched and linear
cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride, Cyclohexane-1,2-dicarboxylic anhydride,
Hexahydro-1-methylphthalic anhydride, Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride
2, 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear, Methoxy acetic acid,
N-pentyl-isopentylphthalate/ Diisopentylphthalate,
N,N-dimethylformamide;dimethyl formamide/ 1,2-Diethoxyethane/N,N-
[Phthalato(2-)]dioxotrilead, Dibutyltin dichloride (DBTC)/
Tetraethyllead, Furan, Dioxobis(stearato)trilead/C16-18, Fatty acids, C16-18, lead salts/
Dimethylsulphate, Dinoseb/4,4'-3,3'-4,4'-methylene-di-o-toluidine/4,4'-
4,4'-oxydianiline and its salts/4-4-Aminoazobenzene; 4-Phenylazoaniline/2,4-
4-methyl-m-phenylenediamine (2,4-toluene-diamine)/2-5-6-methoxy-m-toluidine (p-cresidine)/4-
Biphenyl-4-ylamine/ o-aminoazotoluene/ o-Toluidine; 2-Aminotoluene/N-
N-methylacetamide/ 1-bromopropane/3-2-2-(3-methylbutyl)-1,3-oxazolidine
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
Dipentyl phthalate (DPP),
4-Nonylphenol, branched and linear, ethoxylated/
Pentadecafluorooctanoic acid (PFOA)/C.I. Ammonium pentadecafluorooctanoate (APFO),
[1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate(C.I. Direct Black 38),
phthalate/ 2, Imidazolidine-2-thione; (2-imidazoline-2-thiol),
phosphate, C.I. 28 Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I.
Direct Red 28)/
JV-320 2-benzotriazol-2-yl-4,6-di-tert-butylphenol(UV-320)



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Person in charge of the lab

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graph TD; A[Sample Preparation] --> B[Extraction in organic solvent]; B --> C[Concentration/purify of extraction solution]; C --> D[Transfer extraction solution to volumetric flask]; D --> E[Dilution by adding organic solvent/  
Dilution by water solvent]; E --> F[GC-MS/HPLC/LC/GC/  
LC-MS/MS  
GC-MS/HPLC/LC/GC/  
LC-MS/MS]; F --> G[Data];
```

The flowchart illustrates the analytical procedure for the determination of organophosphorus pesticides in water samples. The process begins with Sample Preparation, followed by Extraction in organic solvent, then Concentration/purify of extraction solution. The next steps are Transfer extraction solution to volumetric flask, Dilution by adding organic solvent/ Dilution by water solvent, and finally, the analysis using GC-MS/HPLC/LC/GC/ LC-MS/MS. The final step is Data.

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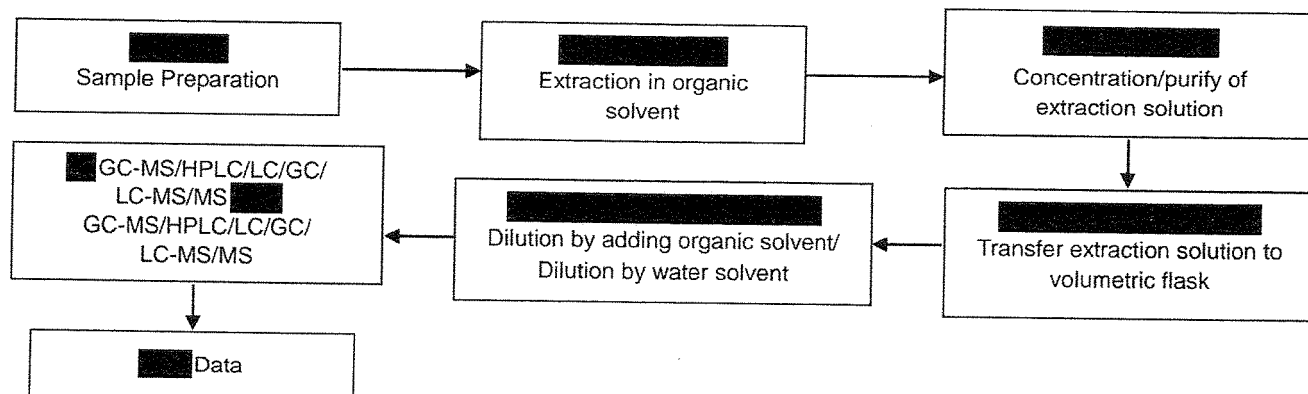
Measurement Flow-chart

Tested by [REDACTED]

Checked by [REDACTED]

Person in charge of the lab [REDACTED]

5. Determination of 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone/2-
4-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one/ Diisohexyl
phthalate/ PFBS Perfluorobutane sulfonic acid (PFBS) and its salts/1-
2-methylimidazole/4- Butyl 4-hydroxybenzoate/ ()
Dibutylbis(pentane-2,4-dionato-O,O')tin/ Determination of Bis(2-(2-methoxyethoxy)ethyl)ether; (Tetraglyme) /1,4-
1,4-dioxane/2,2-1,3- (BMP) 2,2-bis(bromomethyl) propane1,3-diol(BMP); 3-2,2-
(TBNPA)2,2-dimethylpropan-1-ol, tribromoderivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-
(2,3-DBPA) 2,3-dibromo-1-propanol (2,3-DBPA)/ 2-(4-2-(4-tert-butylbenzyl) propionaldehyde and
its individual stereoisomers/4,4'-(1-B)4,4'-(1-methylpropylidene) bisphenol(bisphenol B)/ Glutaral/
(MCCP) (UVCB) $\geq 80\%$ C₁₄ C₁₇ 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]/ C₁₂ (PDDP)Phenol,
alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any
individual/($\pm$)-1,7,7-3-[(4-)] [2.2.1] -2- /
(4-MBC)($\pm$)-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)/2,2'- -4- -6- (DBMC)
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol/S- 5.2.1.0^{2,6} -3-8-9- O- 2- O-
2- 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/ 2- Tris(2-methoxyethoxy)vinylsilane/N-
N-(hydroxymethyl)acrylamide/1,2- (2,4,6-) 1,1'-[ethane-1,2-diylbisoxyl]bis[2,4,6-tribromobenzene]/
A2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol/ S4,4'-sulphonyldiphenol/3,4,5,6- 1,2- 2-
Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or
combinations thereof/4- 2- Isobutyl 4-hydroxybenzoate/ Melamine/
Perfluoroheptanoic acid and its salts/4,4'- bis(4-chlorophenyl) sulphone/ (2,4,6-)
Diphenyl(2,4,6-trimethylbenzoyl)phosphineoxide/ Resorcinol



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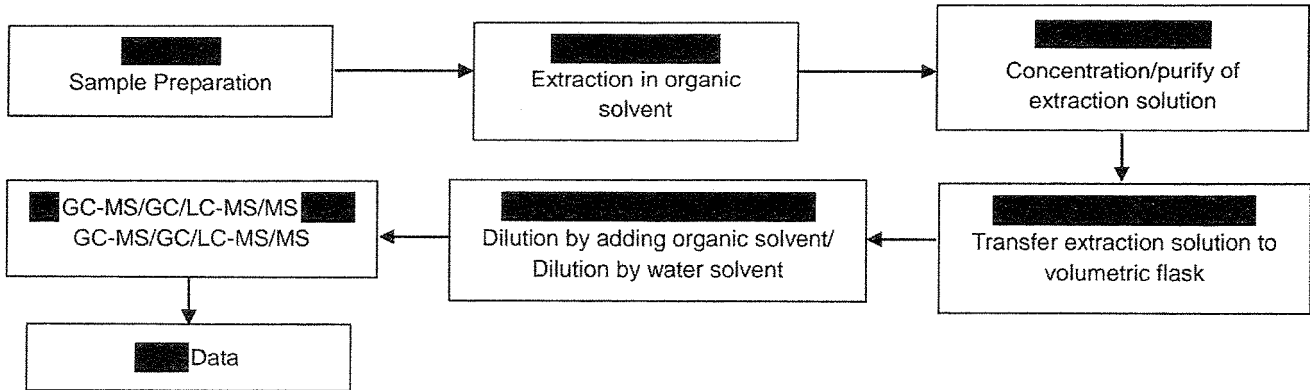
Measurement Flow-chart

Tested by

Checked by

Person in charge of the lab

6 Determination of Dodecamethylpentasiloxane, Decamethyltetrasiloxane/1,1,1,3,5,5,5-trimethyl-3-[(trimethylsilyl)oxy]trisiloxane/Octamethyltrisiloxane, Triphenyl phosphate, (UV326) Bumetizole/(4-)-2-(UV-379) 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one(UV-379)/2-(2H-)-2-(UV-379) 3,3-(UV329)2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol/2,4,6-2,4,6-tri-tert-butylphenol/2-(OAPP) Bis(α,α-dimethylbenzyl) peroxide, Perfluamine/O,O,O-triphenyl phosphorothioate, Tris (4-nonylphenyl, branched) phosphite/6-[(C10-C13)-2,5-dioxopyrrolidin-1-yl] hexanoic acid, n-hexane



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Test Report

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Sample No. & Photo

G7274537D5



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

authenticate the photo on original report only

*** End of Report***