

The following information was/were submitted and identified by/on behalf of the client:

Applicant : AMERICAN UNION GROUP, INC.
Applicant's Address : 13017 Wisteria Dr., #136 GERMANTOWN, MD 20874
Sample Name : NdFeB magnet, Ferrite magnet, SmCo magnet, ALNICO magnet
Tested Model : /
Country of Origin : China
Sample Receive Date : Jun. 22, 2026
Sample Testing Period : Jun. 22, 2026 - Jun. 25, 2026

Test Result Summary:

As requested by the applicant, for details refer to attached page(s).

TEST ITEM(S)	TEST REQUESTED	CONCLUSION(S)
Two hundred and fifty-three (253) substances in the Candidate list of SVHC	ECHA's Candidate list of Substances of Very High Concern (SVHC) for authorization on and before Feb. 04, 2026 of Regulation (EC) No 1907/2006 concerning the REACH	Less than 0.1%

ORIGINAL

Authorized signature:



Lab Manager: Gavin Zhou



Jun. 30, 2026

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Test Group Description:

Group No.	Description
G01	Metal group

Remark: Samples were mixed-tested as equal weight by groups.

Test Result(s):

Two hundred and fifty-three (253) substances in the Candidate list of SVHC

Test Method: Acid digested or extracted by organic solvent, the solutions were analyzed by ICP-OES, UV-vis, GC-MS, HPLC-DAD/MS and other analytical techniques

<u>Chemical Substance[^]</u>	<u>CAS No.</u>	<u>Result(s) % (w/w)</u>
		G01
All SVHC in ECHA's Candidate list	-	N.D. [#]

Note:

- 0.1% = 1000mg/kg;
- N.D. = Not Detected (Less than Report Limit);
- Report Limit = 0.010%;
- "[^]" = For details of the Chemical Substance in Candidate List, refer to below Annex about Candidate List of substances of very high concern for Authorisation(SVHC).
- The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<https://www.echa.europa.eu/candidate-list-table>.

The lists are evaluated by ECHA and will be increased /changed.

6. According to REACH regulation, 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% (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if the following conditions are met:

- The substance in the Candidate List is present in those articles in quantities totalling over one tonne per producer or importer per year;
- The substance in the Candidate List is present in those articles above a concentration of 0.1% (w/w).

7. Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article.

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

8. Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the

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results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

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

10. “#” = The submitted sample(s) was found to contain significant amount of Chromium (Cr) element of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s) content originate from SVHC is unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.



Annex

Candidate List of substances of very high concern for Authorisation(SVHC)

No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
1	4,4'- Diaminodiphenylmethane (MDA) [△]	101-77-9	202-974-4	0.010	Oct. 28, 2008	Carcinogenic
2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) [△]	81-15-2	201-329-4	0.010	Oct. 28, 2008	vPvB
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.010	Oct. 28, 2008	PBT, vPvB
4	Anthracene	120-12-7	204-371-1	0.010	Oct. 28, 2008	PBT
5	Benzyl butyl phthalate (BBP) [△]	85-68-7	201-622-7	0.010	Oct. 28, 2008	Toxic for reproduction, Endocrine disrupting properties
6	Bis (2-ethylhexyl) phthalate (DEHP) [△]	117-81-7	204-211-0	0.010	Oct. 28, 2008	Toxic for reproduction, Endocrine disrupting properties
7	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	0.010	Oct. 28, 2008	PBT
8	Cobalt dichloride* ¹	7646-79-9	231-589-4	0.010	Oct. 28, 2008	Carcinogenic, Toxic for reproduction
9	Diarsenic pentaoxide* ¹ [△]	1303-28-2	215-116-9	0.010	Oct. 28, 2008	Carcinogenic
10	Diarsenic trioxide* ¹ [△]	1327-53-3	215-481-4	0.010	Oct. 28, 2008	Carcinogenic
11	Dibutyl phthalate (DBP) [△]	84-74-2	201-557-4	0.010	Oct. 28, 2008	Toxic for reproduction, Endocrine disrupting properties
12	Hexabromocyclododecane (HBCDD) [△]	-	247-148-4, 221-695-9	0.010	Oct. 28, 2008	PBT
13	Lead hydrogen arsenate* ¹	7784-40-9	232-064-2	0.010	Oct. 28, 2008	Carcinogenic, Toxic for reproduction
14	Sodium dichromate* ¹ [△]	7789-12-0, 10588-01-9	234-190-3	0.010	Oct. 28, 2008	Carcinogenic, Mutagenic, Toxic for reproduction
15	Triethyl arsenate* ¹	15606-95-8	427-700-2	0.010	Oct. 28, 2008	Carcinogenic
16	2,4-Dinitrotoluene [△]	121-14-2	204-450-0	0.010	Jan. 13, 2010	Carcinogenic
17	Anthracene oil* ² [△]	90640-80-5	292-602-7	0.010	Jan. 13, 2010	Carcinogenic, PBT, vPvB
18	Anthracene oil, anthracene paste* ²	90640-81-6	292-603-2	0.010	Jan. 13, 2010	Carcinogenic, Mutagenic, PBT, vPvB
19	Anthracene oil, anthracene paste, anthracene fraction* ²	91995-15-2	295-275-9	0.010	Jan. 13, 2010	Carcinogenic, Mutagenic, PBT, vPvB

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
20	Anthracene oil, anthracene paste, distr. Lights* ²	91995-17-4	295-278-5	0.010	Jan. 13, 2010	Carcinogenic, Mutagenic, PBT, vPvB
21	Anthracene oil, anthracene-low* ²	90640-82-7	292-604-8	0.010	Jan. 13, 2010	Carcinogenic, Mutagenic, PBT, vPvB
22	Diisobutyl phthalate (DIBP) ^Δ	84-69-5	201-553-2	0.010	Jan. 13, 2010	Toxic for reproduction, Endocrine disrupting properties
23	Lead chromate* ¹ ^Δ	7758-97-6	231-846-0	0.010	Jan. 13, 2010	Carcinogenic, Toxic for reproduction
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) * ¹ ^Δ	12656-85-8	235-759-9	0.010	Jan. 13, 2010	Carcinogenic, Toxic for reproduction
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34) * ¹ ^Δ	1344-37-2	215-693-7	0.010	Jan. 13, 2010	Carcinogenic, Toxic for reproduction
26	Pitch, coal tar, high temp.* ² ^Δ	65996-93-2	266-028-2	0.010	Jan. 13, 2010	Carcinogenic, PBT, vPvB
27	Tris(2-chloroethyl) phosphate ^Δ	115-96-8	204-118-5	0.010	Jan. 13, 2010	Toxic for reproduction
28	Acrylamide ^Δ	79-06-1	201-173-7	0.010	Mar. 30, 2010	Carcinogenic, Mutagenic
29	Ammonium dichromate* ¹ ^Δ	7789-09-5	232-143-1	0.010	Jun. 18, 2010	Carcinogenic, Mutagenic, Toxic for reproduction
30	Boric acid* ¹	-	233-139-2, 234-343-4	0.010	Jun. 18, 2010	Toxic for reproduction
31	Disodium tetraborate, anhydrous* ¹	1303-96-4, 1330-43-4, 12179-04-3	215-540-4	0.010	Jun. 18, 2010	Toxic for reproduction
32	Potassium chromate* ¹ ^Δ	7789-00-6	232-140-5	0.010	Jun. 18, 2010	Carcinogenic, Mutagenic
33	Potassium dichromate* ¹ ^Δ	7778-50-9	231-906-6	0.010	Jun. 18, 2010	Carcinogenic, Mutagenic, Toxic for reproduction
34	Sodium chromate* ¹ ^Δ	7775-11-3	231-889-5	0.010	Jun. 18, 2010	Carcinogenic, Mutagenic, Toxic for reproduction
35	Tetraboron disodium heptaoxide, hydrate* ¹	12267-73-1	235-541-3	0.010	Jun. 18, 2010	Toxic for reproduction
36	Trichloroethylene	79-01-6	201-167-4	0.010	Jun. 18, 2010	Carcinogenic
37	2-Ethoxyethanol	110-80-5	203-804-1	0.010	Dec. 15, 2010	Toxic for reproduction

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38	2-Methoxyethanol	109-86-4	203-713-7	0.010	Dec. 15, 2010	Toxic for reproduction
39	Acids generated from chromium trioxide and their oligomers: Chromic acid, dichromic acid, Oligomers of chromic acid and dichromic acid* ¹ △	-	-	0.010	Dec. 15, 2010	Carcinogenic
40	Chromium trioxide* ¹ △	1333-82-0	215-607-8	0.010	Dec. 15, 2010	Carcinogenic, Mutagenic
41	Cobalt(II) carbonate* ¹	513-79-1	208-169-4	0.010	Dec. 15, 2010	Carcinogenic, Toxic for reproduction
42	Cobalt(II) diacetate* ¹	71-48-7	200-755-8	0.010	Dec. 15, 2010	Carcinogenic, Toxic for reproduction
43	Cobalt(II) dinitrate* ¹	10141-05-6	233-402-1	0.010	Dec. 15, 2010	Carcinogenic, Toxic for reproduction
44	Cobalt(II) sulphate* ¹	10124-43-3	233-334-2	0.010	Dec. 15, 2010	Carcinogenic, Toxic for reproduction
45	1,2,3-trichloropropane	96-18-4	202-486-1	0.010	Jun. 20, 2011	Carcinogenic, Toxic for reproduction
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) △	71888-89-6	276-158-1	0.010	Jun. 20, 2011	Toxic for reproduction
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters △	68515-42-4	271-084-6	0.010	Jun. 20, 2011	Toxic for reproduction
48	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.010	Jun. 20, 2011	Toxic for reproduction
49	2-ethoxyethyl acetate	111-15-9	203-839-2	0.010	Jun. 20, 2011	Toxic for reproduction
50	Hydrazine	302-01-2, 7803-57-8	206-114-9	0.010	Jun. 20, 2011	Carcinogenic
51	Strontium chromate* ¹ △	7789-06-2	232-142-6	0.010	Jun. 20, 2011	Carcinogenic
52	1,2-Dichloroethane (EDC) △	107-06-2	203-458-1	0.010	Dec. 19, 2011	Carcinogenic
53	2,2'-dichloro-4,4'-methylenedianiline △	101-14-4	202-918-9	0.010	Dec. 19, 2011	Carcinogenic
54	2-Methoxyaniline /o-Anisidine	90-04-0	201-963-1	0.010	Dec. 19, 2011	Carcinogenic
55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	0.010	Dec. 19, 2011	Endocrine disrupting properties
56	Aluminosilicate Refractory Ceramic Fibres (RCF) * ¹	-	-	0.010	Dec. 19, 2011	Carcinogenic
57	Arsenic acid* ¹ △	7778-39-4	231-901-9	0.010	Dec. 19, 2011	Carcinogenic
58	Bis(2-methoxyethyl) ether △	111-96-6	203-924-4	0.010	Dec. 19, 2011	Toxic for reproduction
59	Bis(2-methoxyethyl) phthalate △	117-82-8	204-212-6	0.010	Dec. 19, 2011	Toxic for reproduction
60	Calcium arsenate* ¹	7778-44-1	231-904-5	0.010	Dec. 19, 2011	Carcinogenic
61	Dichromium tris(chromate) * ¹ △	24613-89-6	246-356-2	0.010	Dec. 19, 2011	Carcinogenic

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62	Formaldehyde, oligomeric reaction products with aniline [△]	25214-70-4	500-036-1	0.010	Dec. 19, 2011	Carcinogenic
63	Lead diazide, Lead azide* ¹	13424-46-9	236-542-1	0.010	Dec. 19, 2011	Toxic for reproduction
64	Lead dipicrate* ¹	6477-64-1	229-335-2	0.010	Dec. 19, 2011	Toxic for reproduction
65	Lead styphnate* ¹	15245-44-0	239-290-0	0.010	Dec. 19, 2011	Toxic for reproduction
66	N,N-dimethylacetamide	127-19-5	204-826-4	0.010	Dec. 19, 2011	Toxic for reproduction
67	Pentazinc chromate octahydroxide* ¹ [△]	49663-84-5	256-418-0	0.010	Dec. 19, 2011	Carcinogenic
68	Phenolphthalein	77-09-8	201-004-7	0.010	Dec. 19, 2011	Carcinogenic
69	Potassium hydroxyoctaoxodizincatedichromate* ¹ [△]	11103-86-9	234-329-8	0.010	Dec. 19, 2011	Carcinogenic
70	Trilead diarsenate* ¹	3687-31-8	222-979-5	0.010	Dec. 19, 2011	Carcinogenic, Toxic for reproduction
71	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) * ¹	-	-	0.010	Dec. 19, 2011	Carcinogenic
72	1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME)	110-71-4	203-794-9	0.010	Jun. 18, 2012	Toxic for reproduction
73	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.010	Jun. 18, 2012	Toxic for reproduction
74	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	2451-62-9	219-514-3	0.010	Jun. 18, 2012	Mutagenic
75	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	423-400-0	0.010	Jun. 18, 2012	Mutagenic
76	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol # [△]	561-41-1	209-218-2	0.010	Jun. 18, 2012	Carcinogenic
77	4,4'-bis(dimethylamino) benzophenone	90-94-8	202-027-5	0.010	Jun. 18, 2012	Carcinogenic
78	[4-[4,4'-bis(dimethylamino) benz-hydrilidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) #	548-62-9	208-953-6	0.010	Jun. 18, 2012	Carcinogenic
79	[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	0.010	Jun. 18, 2012	Carcinogenic
80	Diboron trioxide* ¹	1303-86-2	215-125-8	0.010	Jun. 18, 2012	Toxic for reproduction
81	Formamide	75-12-7	200-842-0	0.010	Jun. 18, 2012	Toxic for reproduction
82	Lead(II) bis(methanesulfonate) * ¹	17570-76-2	401-750-5	0.010	Jun. 18, 2012	Toxic for reproduction
83	N,N,N',N'-tetramethyl-4,4'-methylenedianiline(Michler's base)	101-61-1	202-959-2	0.010	Jun. 18, 2012	Carcinogenic

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
84	α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) #	6786-83-0	229-851-8	0.010	Jun. 18, 2012	Carcinogenic
85	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear Δ	84777-06-0	284-032-2	0.010	Dec.19, 2012	Toxic for reproduction
86	1,2-Diethoxyethane	629-14-1	211-076-1	0.010	Dec.19, 2012	Toxic for reproduction
87	1-bromopropane (n-propyl bromide) Δ	106-94-5	203-445-0	0.010	Dec.19, 2012	Toxic for reproduction
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.010	Dec.19, 2012	Toxic for reproduction
89	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.010	Dec.19, 2012	Carcinogenic
90	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.010	Dec.19, 2012	Carcinogenic, Mutagenic
91	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] Δ	-	-	0.010	Dec.19, 2012	Endocrine disrupting properties
92	4-Aminoazobenzene	60-09-3	200-453-6	0.010	Dec.19, 2012	Carcinogenic
93	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	0.010	Dec.19, 2012	Carcinogenic
94	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] Δ	-	-	0.010	Dec.19, 2012	Endocrine disrupting properties
95	6-methoxy-m-toluidine(p-cresidine)	120-71-8	204-419-1	0.010	Dec.19, 2012	Carcinogenic
96	[Phthalato(2-)] dioxotrilead* ¹	69011-06-9	273-688-5	0.010	Dec.19, 2012	Toxic for reproduction
97	Acetic acid, lead salt, basic* ¹	51404-69-4	257-175-3	0.010	Dec.19, 2012	Toxic for reproduction
98	Biphenyl-4-ylamine	92-67-1	202-177-1	0.010	Dec.19, 2012	Carcinogenic
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	0.010	Dec.19, 2012	PBT, vPvB
100	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]	-	-	0.010	Dec.19, 2012	Respiratory sensitizing properties
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.010	Dec.19, 2012	Respiratory sensitizing properties

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
102	Dibutyltin dichloride(DBTC)	683-18-1	211-670-0	0.010	Dec.19, 2012	Toxic for reproduction
103	Diethyl sulphate	64-67-5	200-589-6	0.010	Dec.19, 2012	Carcinogenic, Mutagenic
104	Diisopentylphthalate [△]	605-50-5	210-088-4	0.010	Dec.19, 2012	Toxic for reproduction
105	Dimethyl sulphate	77-78-1	201-058-1	0.010	Dec.19, 2012	Carcinogenic
106	Dinoseb (6-sec-butyl-2,4- dinitrophenol)	88-85-7	201-861-7	0.010	Dec.19, 2012	Toxic for reproduction
107	Dioxobis(stearato)trilead* ¹	12578-12-0	235-702-8	0.010	Dec.19, 2012	Toxic for reproduction
108	Fatty acids, C16-18, lead salts* ¹	91031-62-8	292-966-7	0.010	Dec.19, 2012	Toxic for reproduction
109	Furan	110-00-9	203-727-3	0.010	Dec.19, 2012	Carcinogenic
110	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.010	Dec.19, 2012	vPvB
111	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.010	Dec.19, 2012	vPvB
112	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]	-	-	0.010	Dec.19, 2012	Respiratory sensitising properties
113	Lead bis(tetrafluoroborate) * ¹	13814-96-5	237-486-0	0.010	Dec.19, 2012	Toxic for reproduction
114	Lead cyanamidate* ¹	20837-86-9	244-073-9	0.010	Dec.19, 2012	Toxic for reproduction
115	Lead dinitrate* ¹	10099-74-8	233-245-9	0.010	Dec.19, 2012	Toxic for reproduction
116	Lead monoxide (lead oxide) * ¹	1317-36-8	215-267-0	0.010	Dec.19, 2012	Toxic for reproduction
117	Lead oxide sulfate* ¹	12036-76-9	234-853-7	0.010	Dec.19, 2012	Toxic for reproduction
118	Lead titanium trioxide* ¹	12060-00-3	235-038-9	0.010	Dec.19, 2012	Toxic for reproduction
119	Lead titanium zirconium oxide* ¹	12626-81-2	235-727-4	0.010	Dec.19, 2012	Toxic for reproduction
120	Methoxyacetic acid	625-45-6	210-894-6	0.010	Dec.19, 2012	Toxic for reproduction
121	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.010	Dec.19, 2012	Carcinogenic, Mutagenic
122	N,N-dimethylformamide	68-12-2	200-679-5	0.010	Dec.19, 2012	Toxic for reproduction
123	N-methylacetamide	79-16-3	201-182-6	0.010	Dec.19, 2012	Toxic for reproduction
124	N-pentyl-isopentyl phthalate [△]	776297-69-9	-	0.010	Dec.19, 2012	Toxic for reproduction

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
125	o-aminoazotoluene	97-56-3	202-591-2	0.010	Dec.19, 2012	Carcinogenic
126	o-Toluidine	95-53-4	202-429-0	0.010	Dec.19, 2012	Carcinogenic
127	Orange lead (lead tetroxide) * ¹	1314-41-6	215-235-6	0.010	Dec.19, 2012	Toxic for reproduction
128	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.010	Dec.19, 2012	vPvB
129	Pentalead tetraoxide sulphate* ¹	12065-90-6	235-067-7	0.010	Dec.19, 2012	Toxic for reproduction
130	Pyrochlore, antimony lead yellow* ¹	8012-00-8	232-382-1	0.010	Dec.19, 2012	Toxic for reproduction
131	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] * ¹	68784-75-8	272-271-5	0.010	Dec.19, 2012	Toxic for reproduction
132	Silicic acid, lead salt* ¹	11120-22-2	234-363-3	0.010	Dec.19, 2012	Toxic for reproduction
133	Sulfurous acid, lead salt, dibasic* ¹	62229-08-7	263-467-1	0.010	Dec.19, 2012	Toxic for reproduction
134	Tetraethyllead* ¹ △	78-00-2	201-075-4	0.010	Dec.19, 2012	Toxic for reproduction
135	Tetralead trioxide sulphate* ¹	12202-17-4	235-380-9	0.010	Dec.19, 2012	Toxic for reproduction
136	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.010	Dec.19, 2012	vPvB
137	Trilead bis(carbonate) dihydroxide* ¹	1319-46-6	215-290-6	0.010	Dec.19, 2012	Toxic for reproduction
138	Trilead dioxide phosphonate* ¹	12141-20-7	235-252-2	0.010	Dec.19, 2012	Toxic for reproduction
139	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] △	-	-	0.010	Jun. 20, 2013	Endocrine disrupting properties
140	Ammonium pentadecafluorooctanoate (APFO)* ²	3825-26-1	223-320-4	0.010	Jun. 20, 2013	Toxic for reproduction, PBT
141	Cadmium	7440-43-9	231-152-8	0.010	Jun. 20, 2013	Carcinogenic, Specific target organ toxicity after repeated exposure

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
142	Cadmium oxide* ¹	1306-19-0	215-146-2	0.010	Jun. 20, 2013	Carcinogenic, Specific target organ toxicity after repeated exposure
143	Dipentyl phthalate (DPP) [△]	131-18-0	205-017-9	0.010	Jun. 20, 2013	Toxic for reproduction
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.010	Jun. 20, 2013	Toxic for reproduction, PBT
145	Cadmium sulphide* ¹	1306-23-6	215-147-8	0.010	Dec. 16, 2013	Carcinogenic, Specific target organ toxicity after repeated exposure
146	Dihexyl phthalate (DHP) [△]	84-75-3	201-559-5	0.010	Dec. 16, 2013	Toxic for reproduction
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	0.010	Dec. 16, 2013	Carcinogenic
148	Disodium 4-amino-3-[[4'-(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	0.010	Dec. 16, 2013	Carcinogenic
149	Imidazolidine-2-thione(2-imidazoline-2-thiol)	96-45-7	202-506-9	0.010	Dec. 16, 2013	Toxic for reproduction
150	Lead di(acetate) * ¹	301-04-2	206-104-4	0.010	Dec. 16, 2013	Toxic for reproduction
151	Trixylyl phosphate [△]	25155-23-1	246-677-8	0.010	Dec. 16, 2013	Toxic for reproduction
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear [△]	68515-50-4	271-093-5	0.010	Jun. 16, 2014	Toxic for reproduction
153	Cadmium chloride* ¹	10108-64-2	233-296-7	0.010	Jun. 16, 2014	Carcinogenic, Mutagenic, Toxic for reproduction, Specific target organ toxicity after repeated exposure
154	Sodium perborate; perboric acid, sodium salt* ¹ [△]	-	239-172-9, 234-390-0	0.010	Jun. 16, 2014	Toxic for reproduction
155	Sodium peroxometaborate* ¹ [△]	7632-04-4	231-556-4	0.010	Jun. 16, 2014	Toxic for reproduction
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol(UV-328) [△]	25973-55-1	247-384-8	0.010	Dec. 17, 2014	PBT, vPvB
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) [△]	3846-71-7	223-346-6	0.010	Dec. 17, 2014	PBT, vPvB

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) [△]	15571-58-1	239-622-4	0.010	Dec. 17, 2014	Toxic for reproduction
159	Cadmium fluoride* ¹	7790-79-6	232-222-0	0.010	Dec. 17, 2014	Carcinogenic, Mutagenic, Toxic for reproduction, Specific target organ toxicity after repeated exposure
160	Cadmium sulphate* ¹	10124-36-4, 31119-53-6	233-331-6	0.010	Dec. 17, 2014	Carcinogenic, Mutagenic, Toxic for reproduction, Specific target organ toxicity after repeated exposure
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) [△]	-	-	0.010	Dec. 17, 2014	Toxic for reproduction
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	-	0.010	Jun. 15, 2015	Toxic for reproduction
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof] [△]	--	--	0.010	Jun. 15, 2015	vPvB
164	1,3-propanesultone	1120-71-4	214-317-9	0.010	Dec. 17, 2015	Carcinogenic
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) [△]	3864-99-1	223-383-8	0.010	Dec. 17, 2015	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) [△]	36437-37-3	253-037-1	0.010	Dec. 17, 2015	vPvB
167	Nitrobenzene	98-95-3	202-716-0	0.010	Dec. 17, 2015	Toxic for reproduction
168	Perfluorononan-1-oiic-acid and its sodium and ammonium salts	-	-	0.010	Dec. 17, 2015	Toxic for reproduction, PBT

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<u>No.</u>	<u>Substance Name</u>	<u>CAS No.</u>	<u>EC No.</u>	<u>RL(%)</u>	<u>Date of inclusion</u>	<u>Reason for inclusion</u>
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.010	Jun. 20, 2016	Carcinogenic, Mutagenic, Toxic for reproduction, PBT, vPvB
170	4,4'-isopropylidenediphenol (Bisphenol A)	80-05-7	201-245-8	0.010	Jan. 12, 2017	Toxic for reproduction, Endocrine disrupting properties
171	4-Heptylphenol, branched and linear	-	-	0.010	Jan. 12, 2017	Endocrine disrupting properties
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	-	0.010	Jan. 12, 2017	Toxic for reproduction, PBT
173	p-(1,1-dimethylpropyl) phenol	80-46-6	201-280-9	0.010	Jan. 12, 2017	Endocrine disrupting properties
174	Perfluorohexyl-1-sulphonic acid and its salts (PFHxS)	-	-	0.010	Jul. 07, 2017	vPvB
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodeca chloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus™") [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.010	Jan. 15, 2018	vPvB
176	Benz[a]anthracene	56-55-3	200-280-6	0.010	Jan. 15, 2018	Carcinogenic, PBT, vPvB
177	Cadmium carbonate* ¹	513-78-0	208-168-9	0.010	Jan. 15, 2018	Carcinogenic, Mutagenic, Specific target organ toxicity after repeated exposure
178	Cadmium hydroxide* ¹	21041-95-2	244-168-5	0.010	Jan. 15, 2018	Carcinogenic, Mutagenic, Specific target organ toxicity after repeated exposure
179	Cadmium nitrate* ¹	10325-94-7	233-710-6	0.010	Jan. 15, 2018	Carcinogenic, Mutagenic, Specific target organ toxicity after repeated exposure
180	Chrysene	218-01-9	205-923-4	0.010	Jan. 15, 2018	Carcinogenic, PBT, vPvB

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)] [△]	-	-	0.010	Jan. 15, 2018	Endocrine disrupting properties
182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	0.010	Jun. 27, 2018	Respiratory sensitising properties
183	Benzo[ghi]perylene	191-24-2	205-883-8	0.010	Jun. 27, 2018	PBT, vPvB
184	Decamethylcyclopentasiloxane(D5)	541-02-6	208-764-9	0.010	Jun. 27, 2018	PBT, vPvB
185	Dicyclohexyl phthalate(DCHP)	84-61-7	201-545-9	0.010	Jun. 27, 2018	Toxic for reproduction , Endocrine disrupting properties
186	Disodium octaborate* ¹	12008-41-2	234-541-0	0.010	Jun. 27, 2018	Toxic for reproduction
187	Dodecamethylcyclohexasiloxane(D6)	540-97-6	208-762-8	0.010	Jun. 27, 2018	PBT, vPvB
188	Ethylenediamine(EDA)	107-15-3	203-468-6	0.010	Jun. 27, 2018	Respiratory sensitising properties
189	Lead	7439-92-1	231-100-4	0.010	Jun. 27, 2018	Toxic for reproduction
190	Octamethylcyclotetrasiloxane(D4)	556-67-2	209-136-7	0.010	Jun. 27, 2018	PBT, vPvB
191	Terphenyl, hydrogenated	61788-32-7	262-967-7	0.010	Jun. 27, 2018	vPvB
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	239-139-9	0.010	Jan. 15, 2019	Endocrine disrupting properties
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.010	Jan. 15, 2019	Toxic for reproduction
194	Benzo[k]fluoranthene	207-08-9	205-916-6	0.010	Jan. 15, 2019	Carcinogenic, PBT, vPvB
195	Fluoranthene	206-44-0	205-912-4	0.010	Jan. 15, 2019	PBT, vPvB
196	Phenanthrene	85-01-8	201-581-5	0.010	Jan. 15, 2019	vPvB
197	Pyrene	129-00-0	204-927-3	0.010	Jan. 15, 2019	PBT, vPvB
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides[covering any of their individual isomers and combinations thereof]	-	-	0.010	Jul. 16, 2019	Equivalent level of concern having probable serious effects to human health, Equivalent level of concern having probable serious effects to the environment

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
199	2-methoxyethyl acetate	110-49-6	203-772-9	0.010	Jul. 16, 2019	Toxic for reproduction
200	4-tert-butylphenol	98-54-4	202-679-0	0.010	Jul. 16, 2019	Endocrine disrupting properties
201	Tris(4-nonylphenyl, branched and linear) phosphite(TNPP) with ≥0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.010	Jul. 16, 2019	Endocrine disrupting properties
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.010	Jan. 16, 2020	Toxic for reproduction
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.010	Jan. 16, 2020	Toxic for reproduction
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.010	Jan. 16, 2020	Toxic for reproduction
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.010	Jan. 16, 2020	Equivalent level of concern having probable serious effects to human health, Equivalent level of concern having probable serious effects to the environment
206	1-vinylimidazole	1072-63-5	214-012-0	0.010	Jun. 25, 2020	Toxic for reproduction
207	2-methylimidazole	693-98-1	211-765-7	0.010	Jun. 25, 2020	Toxic for reproduction
208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.010	Jun. 25, 2020	Endocrine disrupting properties
209	Dibutylbis(pentane-2,4-dionato-O,O')tin *2	22673-19-4	245-152-0	0.010	Jun. 25, 2020	Toxic for reproduction
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	0.010	Jan. 19, 2021	Toxic for reproduction
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. Wherein C12 is the predominant carbon number of the fatty acyloxy moiety*2	-	-	0.010	Jan. 19, 2021	Toxic for reproduction

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
212	1,4-dioxane	123-91-1	204-661-8	0.010	Jul. 08, 2021	Carcinogenic, Equivalent level of concern having probable serious effects to human health, Equivalent level of concern having probable serious effects to the environment
213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	-	0.010	Jul. 08, 2021	Carcinogenic
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	0.010	Jul. 08, 2021	Toxic for reproduction
215	4,4'-(1-methylpropylidene) bisphenol (bisphenol B)	77-40-7	201-025-1	0.010	Jul. 08, 2021	Endocrine disrupting properties
216	Glutaral	111-30-8	203-856-5	0.010	Jul. 08, 2021	Respiratory sensitising properties
217	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]	-	-	0.010	Jul. 08, 2021	PBT, vPvB
218	Orthoboric acid, sodium salt* ¹	-	-	0.010	Jul. 08, 2021	Toxic for reproduction
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	0.010	Jul. 08, 2021	Toxic for reproduction, Endocrine disrupting properties
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene] bicyclo [2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	-	0.010	Jan. 17, 2022	Endocrine disrupting properties
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1	0.010	Jan. 17, 2022	Toxic for reproduction
222	S-(tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9	0.010	Jan. 17, 2022	PBT
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	0.010	Jan. 17, 2022	Toxic for reproduction

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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.010	Jun. 10, 2022	Carcinogenic, Mutagenic
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3	0.010	Jan. 17, 2023	vPvB
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	0.010	Jan. 17, 2023	Carcinogenic
227	4,4'-sulphonyldiphenol	80-09-1	201-250-5	0.010	Jan. 17, 2023	Toxic for reproduction, Endocrine disrupting properties
228	Barium diboron tetraoxide* ¹	13701-59-2	237-222-4	0.010	Jan. 17, 2023	Toxic for reproduction
229	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	0.010	Jan. 17, 2023	vPvB
230	Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	0.010	Jan. 17, 2023	Endocrine disrupting properties
231	Melamine	108-78-1	203-615-4	0.010	Jan. 17, 2023	Equivalent level of concern having probable serious effects to human health, Equivalent level of concern having probable serious effects to the environment
232	Perfluoroheptanoic acid and its salts	-	-	0.010	Jan. 17, 2023	Toxic for reproduction, PBT, vPvB, Equivalent level of concern having probable serious effects to human health, Equivalent level of concern having probable serious effects to the environment
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	0.010	Jan. 17, 2023	vPvB
234	Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8	278-355-8	0.010	Jun. 14, 2023	Toxic for reproduction
235	Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	0.010	Jun. 14, 2023	vPvB

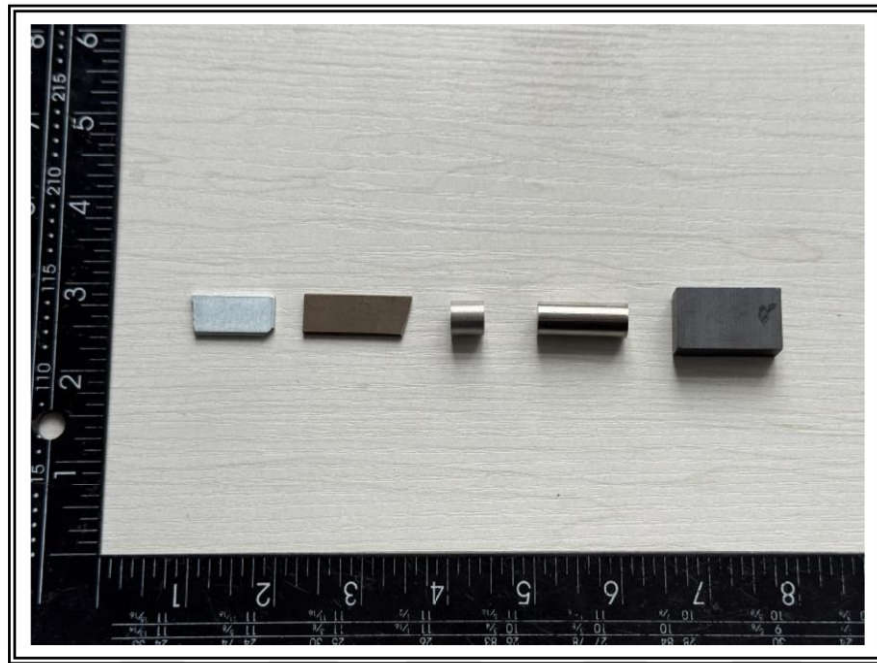
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No.	Substance Name	CAS No.	EC No.	RL(%)	Date of inclusion	Reason for inclusion
236	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	700-960-7	0.010	Jan. 23, 2024	vPvB
237	Bumetrizole (UV-326)	3896-11-5	223-445-4	0.010	Jan. 23, 2024	vPvB
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0	0.010	Jan. 23, 2024	Toxic for reproduction
239	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	221-573-5	0.010	Jan. 23, 2024	vPvB
240	2,4,6-tri-tert-butylphenol	732-26-3	211-989-5	0.010	Jan. 23, 2024	Toxic for reproduction PBT
241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	201-279-3	0.010	Jun. 27, 2024	Toxic for reproduction
242	Triphenyl phosphate(TPP)	115-86-6	204-112-2	0.010	Nov. 07, 2024	Endocrine disrupting properties
243	6-[(C10-C13) -alkyl- (branched, unsaturated)-2,5-dioxopyrrolidin-1-yl] hexanoic acid	2156592-54-8	701-118-1	0.010	Jan. 21, 2025	Toxic for reproduction
244	O,O,O-triphenyl phosphorothioate	597-82-0	209-909-9	0.010	Jan. 21, 2025	PBT
245	Octamethyltrisiloxane	107-51-7	203-497-4	0.010	Jan. 21, 2025	vPvB
246	Perfluamine	338-83-0	206-420-2	0.010	Jan. 21, 2025	vPvB
247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	421-820-9	0.010	Jan. 21, 2025	PBT
248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyloxy)trisiloxane	17928-28-8	241-867-7	0.010	Jun. 25, 2025	vPvB
249	decamethyltetrasiloxane	141-62-8	205-491-7	0.010	Jun. 25, 2025	vPvB
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)diazanyl]-5-methoxyphenyl]diazanyl]-1,3,6-naphthalenetrisulfonate (Reactive Brown 51)	-	466-490-7	0.010	Jun. 25, 2025	Toxic for reproduction
251	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	84852-53-9	284-366-9	0.010	Nov. 05, 2025	vPvB
252	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and its salts	-	-	0.010	Feb. 04, 2026	Toxic for reproduction
253	n-hexane	110-54-3	203-777-6	0.010	Feb. 04, 2026	Specific target organ toxicity after repeated exposure

- Note:**
1. PBT = Persistent, bio accumulative and toxic;
 2. vPvB = Very persistent and very bio accumulative;
 3. RL = Report Limit;
 4. “*1” = The test result is based on the calculation of selected element(s) and to the worst case;
 5. “*2” = The test result is based on the calculation of selected marker(s) and to the worst case;
 6. “△” = Fifty-nine(59) substances included in Annex XIV of REACH (Authorisation List).

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Sample photo(s):



G01

GIG authenticate the photo(s) on original report only

****End of Report****

ORIGINAL

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