

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

**SGS Job No. :** TSHL1911007341ST-TJ  
**Sample Description:** GRAPHITE WOODEN PENCILS  
**Quantity of Sample:** 12 sets  
**Date of Sample Received:** 12 Dec. 2019  
**Testing Period:** 13 Dec. 2019 – 17 Dec. 2019  
**Test Performed:** Tested the sample(s) by applicant with following result.  
**Test Requested:** As specified by client, selected parts of the submitted sample(s) with reference to (EC) 1907/2006 REACH Article 33: the Candidate List of Substances of Very High Concern (SVHC), Content of Benzene in Item 5 of European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments, Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments, Organotin Content requirement in Annex XVII, item 20 of REACH Regulation (EC) No 1907/2006 with its Amendments, Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation (EC) No 1907/2006 with its Amendments, Total Cadmium Content Requirement in Annex XVII, item 23 of the REACH Regulation (EC) No 1907/2006 with its Amendments, Total Lead Content Requirement in Annex XVII, item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments.

**Test Result(s):** For further details, please refer to following page(s).



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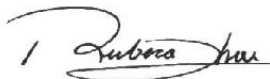
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**Result Summary:**

Test Requested	Conclusion
(EC) 1907/2006 REACH Regulation Article 33: the Candidate List of Substances of Very High Concern (SVHC)	Pass
Content of Benzene in Item 5 of European Regulation (EC) No. 1907 /2006 (REACH) Annex XVII and its amendments	Pass
Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
Organotin Content requirement in Annex XVII, item 20 of REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
Total Cadmium Content Requirement in Annex XVII, item 23 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
Total Lead Content Requirement in Annex XVII, item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass

Signed for and on behalf of  
SGS-CSTC Ltd.



Rebeca Zhou  
Approved Signatory



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**Result(s):**
**I. (EC) 1907/2006 REACH Article 33: the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before 16 July 2019.**

 Test Method: Analyzed by ICP-OES, GC-MS Colorimetric method/HPLC and UV-VIS.  
Substances of Very High Concern (SVHC)
Test Samples:

Specimen No.	SGS Sample ID	Description
1	TSN19-0207341.001	White Coating
2	TSN19-0207341.002	Steel Grey Coating
3	TSN19-0207341.003	Acid Yellow Coating
4	TSN19-0207341.004	Deep Cadmium Coating
5	TSN19-0207341.005	Yellow Ochre Coating
6	TSN19-0207341.006	Orange Coating
7	TSN19-0207341.007	Blood Orange Coating
8	TSN19-0207341.008	Pale Peach Coating
9	TSN19-0207341.009	310 Red Coating
10	TSN19-0207341.010	Scarlet Coating
11	TSN19-0207341.011	Red Coating
12	TSN19-0207341.012	Deep Red Coating
13	TSN19-0207341.013	Deep Fuchsia Coating
14	TSN19-0207341.014	Cranberry Coating
15	TSN19-0207341.015	Loganberry Coating
16	TSN19-0207341.016	Pink Coating
17	TSN19-0207341.017	Bright Pink Coating
18	TSN19-0207341.018	Purple Coating
19	TSN19-0207341.019	Royal Purple Coating
20	TSN19-0207341.020	Bright Purple Coating
21	TSN19-0207341.021	Ultramarine Coating
22	TSN19-0207341.022	Indigo Coating
23	TSN19-0207341.023	Prussian Blue Coating
24	TSN19-0207341.024	Blue Coating
25	TSN19-0207341.025	Baby Blue Coating



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**Result(s):**

Specimen No.	SGS Sample ID	Description
26	TSN19-0207341.026	Iced Blue Coating
27	TSN19-0207341.027	410 Blue Coating
28	TSN19-0207341.028	Sea Green Coating
29	TSN19-0207341.029	Light Sand Coating
30	TSN19-0207341.030	Lime Green Coating
31	TSN19-0207341.031	Grey Green Coating
32	TSN19-0207341.032	Mild Green Coating
33	TSN19-0207341.033	Dark Green Coating
34	TSN19-0207341.034	Green Coating
35	TSN19-0207341.035	Pea Green Coating
36	TSN19-0207341.036	Light Green Coating
37	TSN19-0207341.037	Yellow Green Coating
38	TSN19-0207341.038	Pale Blue Coating
39	TSN19-0207341.039	Brown Coating
40	TSN19-0207341.040	Dark Brown Coating
41	TSN19-0207341.041	Pale Brown Coating
42	TSN19-0207341.042	Mid Brown Coating
43	TSN19-0207341.043	Ochre Coating
44	TSN19-0207341.044	Mid Terracotta Coating
45	TSN19-0207341.045	Brown Black Coating
46	TSN19-0207341.046	Black Coating
47	TSN19-0207341.047	Mid Grey Coating
48	TSN19-0207341.048	Mint Coating
49	TSN19-0207341.049	Graphite 9H Core
50	TSN19-0207341.050	Graphite 8H Core
51	TSN19-0207341.051	Graphite 7H Core
52	TSN19-0207341.052	Graphite 6H Core
53	TSN19-0207341.053	Graphite 5H Core
54	TSN19-0207341.054	Graphite 4H Core
55	TSN19-0207341.055	Graphite 3H Core



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**Result(s):**

Specimen No.	SGS Sample ID	Description
56	TSN19-0207341.056	Graphite 2H Core
57	TSN19-0207341.057	Graphite H Core
58	TSN19-0207341.058	Graphite F Core
59	TSN19-0207341.059	Graphite HB Core
60	TSN19-0207341.060	Graphite B Core
61	TSN19-0207341.061	Graphite 2B Core
62	TSN19-0207341.062	Graphite 3B Core
63	TSN19-0207341.063	Graphite 4B Core
64	TSN19-0207341.064	Graphite 5B Core
65	TSN19-0207341.065	Graphite 6B Core
66	TSN19-0207341.066	Graphite 7B Core
67	TSN19-0207341.067	Graphite 8B Core
68	TSN19-0207341.068	Graphite 9B Core
69	TSN19-0207341.069	Graphite 10B Core
70	TSN19-0207341.070	Graphite 11B Core
71	TSN19-0207341.071	Graphite 12B Core
72	TSN19-0207341.072	WOOD

**Remark:**

- (1) 1mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detection ( < MDL )
- (4) “-“ =Not Regulated
- (5) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
<http://echa.europa.eu/web/guest/candidate-list-table>  
 These lists are under evaluation by ECHA and may subject to change in the future.



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**Result(s):**

**Remark:**

(6) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in Candidate List is present in those article in quantities totaling over one tonne per producer or importer per year; and (b) the substance in Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

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

(7) Concerning material(s):

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

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



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**Result(s):**

**Remark:**

(8) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or  
 - a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of  $\geq 1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq 0.2\%$  by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1\%$  by weight for mixtures that are solid or liquid (i.e., non-gaseous mixtures );  
 or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1\%$  by weight for non-gaseous mixtures; or

(d) a substance for which there are Europe-wide workplace exposure limits.

(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 samples was/were analyzed on behalf of the applicant as mixing sample in one test. The following result was/were only given as the informality value.



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**Result(s):**
**Test Results: (substances in the Candidate List of SVHC)**

No	Chemical Name	EC Number	CAS Number	Result(s) (%)
201	2-methoxyethyl acetate	203-772-9	110-49-6	ND
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	ND
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	ND
198	4-tert-butylphenol	202-679-0	98-54-4	ND
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	239-139-9	15087-24-8	ND
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	ND
195	Benzo[k]fluoranthene	205-916-6	207-08-9	ND
194	Fluoranthene	205-912-4	206-44-0; 93951-69-0	ND
193	Phenanthrene	201-581-5	85-01-8	ND
192	Pyrene	204-927-3	129-00-0; 1718-52-1	ND
191	Benzo[ghi]perylene	205-883-8	191-24-2	ND
190	Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	ND
189	Disodium octaborate	234-541-0	12008-41-2	ND
188	Dodecamethylcyclohexasiloxane(D6)	208-762-8	540-97-6	ND



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**Result(s):**

187	Ethylenediamine	203-468-6	107-15-3	ND
186	Lead	231-100-4	7439-92-1	ND
185	Octamethylcyclotetrasiloxane(D4)	209-136-7	556-67-2	ND
184	Terphenyl, hydrogenated	262-967-7	61788-32-7	ND
183	Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	ND
182	benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)(TMA)	209-008-0	552-30-7	ND
181	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	ND
180	Cadmium carbonate	208-168-9	513-78-0	ND
179	Cadmium hydroxide	244-168-5	21041-95-2	ND
178	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	ND
177	Chrysene	205-923-4	218-01-9, 1719-03-5	ND
176	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> )	-	-	ND
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	ND
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	ND
173	4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7	ND
172	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2	ND
171	4-heptylphenol, branched and linear (4-HPbl)	-	-	ND
170	p-(1,1-dimethylpropyl)phenol (PTAP)	201-280-9	80-46-6	ND
169	Benzo[def]chrysene	200-028-5	50-32-8	ND
168	Nitrobenzene	202-716-0	98-95-3	ND
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	ND
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	ND
165	1,3-propanesultone	214-317-9	1120-71-4	ND



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**Result(s):**

164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1, 21049-39-8, 4149-60-4	ND
163	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)	271-094-0, 272-013-1	68515-51-5, 68648-93-1	ND
162	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]			ND
161	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	ND
160	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	ND
159	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	ND
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	ND
157	Cadmium fluoride	232-222-0	7790-79-6	ND
156	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	ND
155	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)			ND
154	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	271-093-5	68515-50-4	ND
153	Cadmium chloride	233-296-7	10108-64-2	ND
152	Sodium perborate,perboric acid, sodium salt	239-172-9, 234-390-0		ND
151	Sodium peroxometaborate	231-556-4	7632-4-4,	ND



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**Result(s):**

150	Cadmium sulphide	215-147-8	1306-23-6	ND
149	Dihexyl phthalate	201-559-5	84-75-3	ND
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	ND
147	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)	217-710-3	1937-37-7	ND
146	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	ND
145	Lead di(acetate)	206-104-4	301-04-2	ND
144	Trixylyl phosphate	246-677-8	25155-23-1	ND
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]			ND
142	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	ND
141	Cadmium	231-152-8	7440-43-9	ND
140	Cadmium oxide	215-146-2	1306-19-0	ND
139	Dipentyl phthalate (DPP)	205-017-9	131-18-0	ND
138	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	ND
137	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	ND
136	1,2-Diethoxyethane	211-076-1	629-14-1	ND
135	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	ND
134	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	ND
133	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	ND
132	4,4'-oxydianiline and its salts	202-977-0	101-80-4	ND
131	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]			ND



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**Result(s):**

130	4-Aminoazobenzene	200-453-6	60-09-3	ND
129	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	ND
128	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]			ND
127	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	ND
126	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	ND
125	Acetic acid, lead salt, basic	257-175-3	51404-69-4	ND
124	Biphenyl-4-ylamine	202-177-1	92-67-1	ND
123	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	ND
122	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]	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	ND
121	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3	ND
120	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	ND
119	Diethyl sulphate	200-589-6	64-67-5	ND
118	Diisopentylphthalate	210-088-4	605-50-5	ND
117	Dimethyl sulphate	201-058-1	77-78-1	ND
116	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	ND
115	Dioxobis(stearato)trilead	235-702-8	12578-12-0	ND
114	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	ND
113	Furan	203-727-3	110-00-9	ND



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**Result(s):**

112	Henicosaflluoroundecanoic acid	218-165-4	2058-94-8	ND
111	Heptacosaflluorotetradecanoic acid	206-803-4	376-06-7	ND
110	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]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	ND
109	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	ND
108	Lead cyanamidate	244-073-9	20837-86-9	ND
107	Lead dinitrate	233-245-9	10099-74-8	ND
106	Lead monoxide (lead oxide)	215-267-0	1317-36-8	ND
105	Lead oxide sulfate	234-853-7	12036-76-9	ND
104	Lead titanium trioxide	235-038-9	12060-00-3	ND
103	Lead titanium zirconium oxide	235-727-4	12626-81-2	ND
102	Methoxyacetic acid	210-894-6	625-45-6	ND
101	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	ND
100	N,N-dimethylformamide	200-679-5	68-12-2	ND
99	N-methylacetamide	201-182-6	79-16-3	ND
98	N-pentyl-isopentylphthalate		776297-69-9	ND
97	o-aminoazotoluene	202-591-2	97-56-3	ND
96	o-Toluidine	202-429-0	95-53-4	ND
95	Orange lead (lead tetroxide)	215-235-6	1314-41-6	ND
94	Pentacosaflluorotridecanoic acid	276-745-2	72629-94-8	ND
93	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	ND
92	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	ND



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Result(s):

91	Silicic acid ( $H_2SiO_5$ ), 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]	272-271-5	68784-75-8	ND
90	Silicic acid, lead salt	234-363-3	11120-22-2	ND
89	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	ND
88	Tetraethyllead	201-075-4	78-00-2	ND
87	Tetralead trioxide sulphate	235-380-9	12202-17-4	ND
86	Tricosafuorododecanoic acid	206-203-2	307-55-1	ND
85	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	ND
84	Trilead dioxide phosphonate	235-252-2	12141-20-7	ND
83	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2	ND
82	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	ND
81	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	ND
80	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	423-400-0	59653-74-6	ND
79	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2	561-41-1	ND
78	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	ND
77	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9	ND



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**Result(s):**

76	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	2580-56-5	ND
75	Diboron trioxide	215-125-8	1303-86-2	ND
74	Formamide	200-842-0	75-12-7	ND
73	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	ND
72	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	ND
71	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0	ND
70	1,2-Dichloroethane	203-458-1	107-06-2	ND
69	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	ND
68	2-Methoxyaniline,o-Anisidine	201-963-1	90-04-0	ND
67	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	ND
66	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight			ND



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**Result(s):**

65	Arsenic acid	231-901-9	7778-39-4	ND
64	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	ND
63	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	ND
62	Calcium arsenate	231-904-5	7778-44-1	ND
61	Dichromium tris(chromate)	246-356-2	24613-89-6	ND
60	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	ND
59	Lead diazide, Lead azide	236-542-1	13424-46-9	ND
58	Lead dipicrate	229-335-2	6477-64-1	ND
57	Lead styphnate	239-290-0	15245-44-0	ND
56	N,N-dimethylacetamide	204-826-4	127-19-5	ND
55	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	ND
54	Phenolphthalein	201-004-7	77-09-8	ND
53	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	ND
52	Trilead diarsenate	222-979-5	3687-31-8	ND
51	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight			ND



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**Result(s):**

50	Cobalt dichloride	231-589-4	7646-79-9	ND
49	1,2,3-trichloropropane	202-486-1	96-18-4	ND
48	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	ND
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	ND
46	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	ND
45	2-Ethoxyethyl acetate	203-839-2	111-15-9	ND
44	Hydrazine	206-114-9	302-01-2, 7803-57-8	ND
43	Strontium chromate	232-142-6	7789-6-2,	ND
42	2-Ethoxyethanol	203-804-1	110-80-5	ND
41	2-Methoxyethanol	203-713-7	109-86-4	ND
40	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.	231-801-5, 236-881-5	7738-94-5, 13530-68-2	ND
39	Chromium trioxide	215-607-8	1333-82-0	ND
38	Cobalt(II) carbonate	208-169-4	513-79-1	ND
37	Cobalt(II) diacetate	200-755-8	71-48-7	ND
36	Cobalt(II) dinitrate	233-402-1	10141-05-6	ND
35	Cobalt(II) sulphate	233-334-2	10124-43-3	ND
34	Ammonium dichromate	232-143-1	7789-9-5,	ND
33	Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	ND
32	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	ND
31	Potassium chromate	232-140-5	7789-00-6	ND
30	Potassium dichromate	231-906-6	7778-50-9	ND
29	Sodium chromate	231-889-5	7775-11-3,	ND
28	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	ND



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**Result(s):**

27	Trichloroethylene	201-167-4	79-01-6	ND
26	Acrylamide	201-173-7	79-06-1	ND
25	2,4-Dinitrotoluene (2,4-DNT)	204-450-0	121-14-2	ND
24	Anthracene oil	292-602-7	90640-80-5	ND
23	Anthracene oil, anthracene paste	292-603-2	90640-81-6	ND
22	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	ND
21	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	ND
20	Anthracene oil, anthracene-low	292-604-8	90640-82-7	ND
19	Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	ND
18	Lead chromate	231-846-0	7758-97-6	ND
17	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	ND
16	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	ND
15	Pitch, coal tar, high temp.	266-028-2	65996-93-2	ND
14	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	ND
13	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	ND
12	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	ND
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	ND
10	Anthracene	204-371-1	120-12-7	ND
9	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	ND
8	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	ND
7	Diarsenic pentaoxide	215-116-9	1303-28-2	ND
6	Diarsenic trioxide	215-481-4	1327-53-3	ND
5	Dibutyl phthalate (DBP)	201-557-4	84-74-2	ND
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:	247-148-4, 221-695-9	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	ND
	hexabromocyclododecane			
	hexabromocyclododecane			
	hexabromocyclododecane			
	hexabromocyclododecane			



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**Result(s):**

3	Lead hydrogen arsenate	232-064-2	7784-40-9	ND
2	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	ND
1	Triethyl arsenate	427-700-2	15606-95-8	ND

**Notes:**

- (1) “%” denotes percent by weight
- (2) As per article 33 of the REACH Regulation (EC) No 1907/2006, recipients of product must be provided with information of safe use in any of the tested substances exceeded 0.1% (w/w)

**II. Content of Benzene in Item 5 of European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments**

Test Method: Analyzed by HS-GC/MS.

**Remark:**

- (1) According to REACH regulation (EC) No. 1907/2006 Annex XVII Item 5,
  - (a) Benzene shall not be used in toys or parts of toys where the concentration of benzene in the free state is greater than 5 mg/kg (0.0005%) of the weight of the toy or part of toy;
  - (b) Benzene shall not be placed on the market, or used as a constituent of other substances, or in mixtures, in concentrations equal to, or greater than 0.1% by weight.
- (2) MDL= Method Detection Limit
- (3) ND = Not detected (<MDL)
- (4) mg/kg = milligram per kilogram

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(1)	(2)	(3)	(4)	(5)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND



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Result(s):

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(6)	(7)	(8)	(9)	(10)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(11)	(12)	(13)	(14)	(15)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(16)	(17)	(18)	(19)	(20)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(21)	(22)	(23)	(24)	(25)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(26)	(27)	(28)	(29)	(30)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(31)	(32)	(33)	(34)	(35)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(36)	(37)	(38)	(39)	(40)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(41)	(42)	(43)	(44)	(45)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND



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**Result(s):**

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(46)	(47)	(48)	(49)	(50)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(51)	(52)	(53)	(54)	(55)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(56)	(57)	(58)	(59)	(60)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(61)	(62)	(63)	(64)	(65)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(66)	(67)	(68)	(69)	(70)
Benzene	71-43-2	mg/kg	5	5	ND	ND	ND	ND	ND

Compound	CAS No.	Unit	MDL	Limit	Result(s)				
					(71)	(72)			
Benzene	71-43-2	mg/kg	5	5	ND	ND			



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**Result(s):**

**III. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII item 50 of the REACH Regulation(EC) No 1907/2006 with its Amendments**

Test Method: Test with reference to AfPS GS 2014:01 PAK, solvent extraction and determination by GC/MS.

**Remark:**

(1) According to European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Regulation Evaluation, Authorization and Restriction of Chemicals (REACH), Annex XVII with its Latest Amendments, Entry 50 Point 5:

Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0.0001 % by weight of this component) of any of the listed PAHs.

Such articles include amongst others:

- (a) sport equipment such as bicycles, golf clubs, racquets
- (b) household utensils, trolleys, walking frames
- (c) tools for domestic use
- (d) clothing, footwear, gloves and sportswear
- (e) watch-straps, wrist-bands, masks, head-bands

Point 6:

Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 0.5 mg/kg (0.00005 % by weight of this component) of any of the listed PAHs.

- (2) MDL= Method Detection Limit
- (3) ND = Not detected (<MDL)
- (4) mg/kg = milligram per kilogram



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**Result(s):**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(1)	(2)	(3)	(4)	(5)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(6)	(7)	(8)	(9)	(10)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(11)	(12)	(13)	(14)	(15)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND



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**Result(s):**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(16)	(17)	(18)	(19)	(20)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(21)	(22)	(23)	(24)	(25)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(26)	(27)	(28)	(29)	(30)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND



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**Result(s):**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(31)	(32)	(33)	(34)	(35)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(36)	(37)	(38)	(39)	(40)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(41)	(42)	(43)	(44)	(45)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND



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**Result(s):**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(51)	(52)	(53)	(54)	(55)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(56)	(57)	(58)	(59)	(60)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(61)	(62)	(63)	(64)	(65)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND



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**Result(s):**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(66)	(67)	(68)	(69)	(70)
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(71)	(72)			
Benzo[a]anthracene	56-55-3	mg/kg	0.1	1	ND	ND			
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.1	1	ND	ND			
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	1	ND	ND			
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	1	ND	ND			
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	1	ND	ND			
Benzo[e]pyrene	192-97-2	mg/kg	0.1	1	ND	ND			
Chrysene	218-01-9	mg/kg	0.1	1	ND	ND			
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND	ND			

#### IV. Organotin Content Requirement in Annex XVII, Item 20 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test Method: Test with reference to ISO 17353:2004, solvent extraction then derivatized with sodium tetraethylborate, and determination by GC-MS.



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Result(s):

Compounds	Unit	MDL	Limit	Result(s)				
				(1)	(2)	(3)	(4)	(5)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(6)	(7)	(8)	(9)	(10)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(11)	(12)	(13)	(14)	(15)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(16)	(17)	(18)	(19)	(20)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND



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**Result(s):**

Compounds	Unit	MDL	Limit	Result(s)				
				(21)	(22)	(23)	(24)	(25)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(26)	(27)	(28)	(29)	(30)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(31)	(32)	(33)	(34)	(35)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(36)	(37)	(38)	(39)	(40)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND



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Result(s):

Compounds	Unit	MDL	Limit	Result(s)				
				(41)	(42)	(43)	(44)	(45)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(46)	(47)	(48)	(49)	(50)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(51)	(52)	(53)	(54)	(55)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(56)	(57)	(58)	(59)	(60)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND



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**Result(s):**

Compounds	Unit	MDL	Limit	Result(s)				
				(61)	(62)	(63)	(64)	(65)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(66)	(67)	(68)	(69)	(70)
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND	ND	ND	ND

Compounds	Unit	MDL	Limit	Result(s)				
				(71)	(72)			
Dibutyltin (DBT)	mg/kg	0.025	1000	ND	ND			
Diocetyl tin (DOT)	mg/kg	0.025	1000	ND	ND			
Tributyltin (TBT)	mg/kg	0.025	1000	ND	ND			
Triphenyltin (TPhT)	mg/kg	0.025	1000	ND	ND			
Tricyclohexyl tin (TcyT)	mg/kg	0.025	1000	ND	ND			

**Note:**

- (1) MDL= Method Detection Limit
- (2) ND = Not detected (<MDL)
- (3) mg/kg = milligram per kilogram



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**Result(s):**
**V. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments**

Test Method: Test with reference to in house method, solvent extraction and determination by GC-MS.

**Remark:**

1. According to REACH regulation (EC) No. 1907/2006 and Amendment No. 552/2009 Annex XVII Item 51,52:DBP, BBP and DEHP are totally banned for use in toys and childcare articles where their concentration exceeds 0.1% by mass DINP, DNOP, DIDP are totally banned for use in toys and childcare articles that can be mouthed where their concentration exceeds 0.1% by mass
2. MDL= Method Detection Limit
3. ND = Not detected (<MDL)
4. % = Percentage of weight

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(1)	(2)	(3)	(4)	(5)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND



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**Result(s):**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(6)	(7)	(8)	(9)	(10)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(11)	(12)	(13)	(14)	(15)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(16)	(17)	(18)	(19)	(20)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

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**Result(s):**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(21)	(22)	(23)	(24)	(25)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(26)	(27)	(28)	(29)	(30)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(31)	(32)	(33)	(34)	(35)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND



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Result(s):

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(36)	(37)	(38)	(39)	(40)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(41)	(42)	(43)	(44)	(45)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(46)	(47)	(48)	(49)	(50)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

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**Result(s):**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(51)	(52)	(53)	(54)	(55)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(56)	(57)	(58)	(59)	(60)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(61)	(62)	(63)	(64)	(65)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND



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**Result(s):**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(66)	(67)	(68)	(69)	(70)
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND	ND	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND	ND	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND	ND	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND	ND	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND	ND	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND	ND	ND	ND

Parameter	CAS No.	Unit	MDL	Limit	Result(s)				
					(71)	(72)			
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND			
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND			
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND			
<b>Sum of DEHP, DBP, BBP</b>	-	%	-	0.1	ND	ND			
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND			
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND			
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND			
<b>Sum of DINP, DIDP, DNOP</b>	-	%	-	0.1	ND	ND			

**VI. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments**

Test Method: Test with reference to EN 1122:2001 Method B, determination by ICP-OES.

Specimen No.	Unite	MDL	Limit	Result(s)
1	mg/kg	10	1000	ND
2	mg/kg	10	1000	ND
3	mg/kg	10	1000	ND
4	mg/kg	10	1000	ND
5	mg/kg	10	1000	ND



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**Result(s):**

Specimen No.	Unite	MDL	Limit	Result(s)
6	mg/kg	10	1000	ND
7	mg/kg	10	1000	ND
8	mg/kg	10	1000	ND
9	mg/kg	10	1000	ND
10	mg/kg	10	1000	ND
11	mg/kg	10	1000	ND
12	mg/kg	10	1000	ND
13	mg/kg	10	1000	ND
14	mg/kg	10	1000	ND
15	mg/kg	10	1000	ND
16	mg/kg	10	1000	ND
17	mg/kg	10	1000	ND
18	mg/kg	10	1000	ND
19	mg/kg	10	1000	ND
20	mg/kg	10	1000	ND
21	mg/kg	10	1000	ND
22	mg/kg	10	1000	ND
23	mg/kg	10	1000	ND
24	mg/kg	10	1000	ND
25	mg/kg	10	1000	ND
26	mg/kg	10	1000	ND
27	mg/kg	10	1000	ND
28	mg/kg	10	1000	ND
29	mg/kg	10	1000	ND
30	mg/kg	10	1000	ND
31	mg/kg	10	1000	ND
32	mg/kg	10	1000	ND
33	mg/kg	10	1000	ND
34	mg/kg	10	1000	ND
35	mg/kg	10	1000	ND
36	mg/kg	10	1000	ND
37	mg/kg	10	1000	ND
38	mg/kg	10	1000	ND



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**Result(s):**

Specimen No.	Unite	MDL	Limit	Result(s)
39	mg/kg	10	1000	ND
40	mg/kg	10	1000	ND
41	mg/kg	10	1000	ND
42	mg/kg	10	1000	ND
43	mg/kg	10	1000	ND
44	mg/kg	10	1000	ND
45	mg/kg	10	1000	ND
46	mg/kg	10	1000	ND
47	mg/kg	10	1000	ND
48	mg/kg	10	1000	ND

Specimen No.	Unite	MDL	Limit	Result(s)
49	mg/kg	10	100	ND
50	mg/kg	10	100	ND
51	mg/kg	10	100	ND
52	mg/kg	10	100	ND
53	mg/kg	10	100	ND
54	mg/kg	10	100	ND
55	mg/kg	10	100	ND
56	mg/kg	10	100	ND
57	mg/kg	10	100	ND
58	mg/kg	10	100	ND
59	mg/kg	10	100	ND
60	mg/kg	10	100	ND
61	mg/kg	10	100	ND
62	mg/kg	10	100	ND
63	mg/kg	10	100	ND
64	mg/kg	10	100	ND
65	mg/kg	10	100	ND
66	mg/kg	10	100	ND
67	mg/kg	10	100	ND
68	mg/kg	10	100	ND
69	mg/kg	10	100	ND



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**Result(s):**

Specimen No.	Unite	MDL	Limit	Result(s)
70	mg/kg	10	100	ND
71	mg/kg	10	100	ND
72	mg/kg	10	100	ND

**Note:**

- (1). MDL= Method Detection Limit
- (2). ND = Not detected (<MDL)
- (3). mg/kg = milligram per kilogram

**VII. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation(EC) No 1907/2006 with its Amendments**

Test Method: Test with reference to in house method, determination by ICP-OES

Specimen No.	Unite	MDL	Limit	Result(s)
1	mg/kg	10	500	ND
2	mg/kg	10	500	ND
3	mg/kg	10	500	ND
4	mg/kg	10	500	ND
5	mg/kg	10	500	ND
6	mg/kg	10	500	ND
7	mg/kg	10	500	ND
8	mg/kg	10	500	ND
9	mg/kg	10	500	ND
10	mg/kg	10	500	ND
11	mg/kg	10	500	ND
12	mg/kg	10	500	ND
13	mg/kg	10	500	ND
14	mg/kg	10	500	ND
15	mg/kg	10	500	ND
16	mg/kg	10	500	ND
17	mg/kg	10	500	ND
18	mg/kg	10	500	ND



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**Result(s):**

Specimen No.	Unite	MDL	Limit	Result(s)
19	mg/kg	10	500	ND
20	mg/kg	10	500	ND
21	mg/kg	10	500	ND
22	mg/kg	10	500	ND
23	mg/kg	10	500	ND
24	mg/kg	10	500	ND
25	mg/kg	10	500	ND
26	mg/kg	10	500	ND
27	mg/kg	10	500	ND
28	mg/kg	10	500	ND
29	mg/kg	10	500	ND
30	mg/kg	10	500	ND
31	mg/kg	10	500	ND
32	mg/kg	10	500	ND
33	mg/kg	10	500	ND
34	mg/kg	10	500	ND
35	mg/kg	10	500	ND
36	mg/kg	10	500	ND
37	mg/kg	10	500	ND
38	mg/kg	10	500	ND
39	mg/kg	10	500	ND
40	mg/kg	10	500	ND
41	mg/kg	10	500	ND
42	mg/kg	10	500	ND
43	mg/kg	10	500	ND
44	mg/kg	10	500	ND
45	mg/kg	10	500	ND
46	mg/kg	10	500	ND
47	mg/kg	10	500	ND
48	mg/kg	10	500	ND
49	mg/kg	10	500	ND
50	mg/kg	10	500	ND



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Result(s):

Specimen No.	Unite	MDL	Limit	Result(s)
51	mg/kg	10	500	ND
52	mg/kg	10	500	ND
53	mg/kg	10	500	ND
54	mg/kg	10	500	ND
55	mg/kg	10	500	ND
56	mg/kg	10	500	ND
57	mg/kg	10	500	ND
58	mg/kg	10	500	ND
59	mg/kg	10	500	ND
60	mg/kg	10	500	ND
61	mg/kg	10	500	ND
62	mg/kg	10	500	ND
63	mg/kg	10	500	ND
64	mg/kg	10	500	ND
65	mg/kg	10	500	ND
66	mg/kg	10	500	ND
67	mg/kg	10	500	ND
68	mg/kg	10	500	ND
69	mg/kg	10	500	ND
70	mg/kg	10	500	ND
71	mg/kg	10	500	ND
72	mg/kg	10	500	ND

Note:

- (1). MDL= Method Detection Limit
- (2). ND = Not detected (<MDL)
- (3). mg/kg = milligram per kilogram

\*\*\* End of Report \*\*\*



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