



CIRS

Test Report

Report No.: TS22071017



Verify authenticity

Applicant	BAGCO LTD
Address	BULLHOUSE MILL LEE LANE, PENISTONE SHEFFIELD, SHOUTH YORKSHIRE, S36 9NN, ENGLAND
Report Date	2022-07-22

Hangzhou C&K Testing Technic Co., Ltd.



Hangzhou C&K Testing Technic Co., Ltd

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Test Report

Applicant	BAGCO LTD
Address	BULLHOUSE MILL LEE LANE,PENISTONE SHEFFIELD, SHOUTH YORKSHIRE,S36 9NN,ENGLAND
Sample Name	RPET 210D polyester
Type/ Model	/
Material/Colour	/
Other Info.	/
Sample Received Date	2022-07-18
Test Period	2022-07-18~ 2022-07-22
Test Requirement	Two hundred and twenty four (224) Substances of Very High Concern (SVHC) analysis. SVHC list is based on the publication by European Chemical Agency (ECHA), regarding regulation (EC) No 1907/2006 concerning the REACH (224 SVHCs are less than the concentration limit of 0.1 % weight by weight (w/w)).
Test Method	CIRS-CG001-2021, CIRS-CG002-2021, CIRS-CG003-2021, CIRS-CG004-2021, CIRS-CG005-2021, CIRS-CG006-2021, CIRS-CG007-2021, CIRS-CG008-2021, CIRS-CG009-2021, CIRS-CG010-2021, CIRS-CG011-2021, CIRS-CG012-2021, CIRS-CG013-2021, CIRS-CG014-2021, CIRS-CG015-2021, CIRS-CG016-2021, CIRS-CG020-2021, CIRS-CG021-2021
Test Results	The concentrations of the 224 SVHCs defined in Article 57 of REACH Regulation in the client's product(s) are less than the concentration limit of 0.1 % weight by weight (w/w).

Prepared by: *Candy Huang*

Candy Huang

Reviewed by: *Li Xuefeng*

Li Xuefeng

Accredited
Signatory by:*Li Changhai*

Li Changhai

Issue date: 2022-07-22

Test Component(s):

No.	Sample Serial No.	Test Component(s)	Type/Model	Material/Colour	Other Info.
001	TS22071017001	RPET 210D polyester	/	/	/

Photo(s):

TS22071017001

Test Result(s):

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	100	N.D.
2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	100	N.D.
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	100	N.D.
4	Anthracene	120-12-7	100	N.D.
5	Benzyl butyl phthalate (BBP)	85-68-7	100	N.D.
6	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	100	N.D.
7	Bis(tributyltin)oxide (TBTO)	56-35-9	100	N.D.
8	Cobalt dichloride	7646-79-9	100	N.D.
9	Diarsenic pentaoxide	1303-28-2	100	N.D.
10	Diarsenic trioxide	1327-53-3	100	N.D.
11	Dibutyl phthalate (DBP)	84-74-2	100	N.D.
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Hexabromocyclododecane, 1,2,5,6,9,10-hexabromocyclododecane, Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4, 3194-55-6 134237-50-6 134237-51-7 134237-52-8	100	N.D.
13	Lead hydrogen arsenate	7784-40-9	100	N.D.
14	Sodium dichromate	7789-12-0, 10588-01-9	100	N.D.
15	Triethyl arsenate	15606-95-8	100	N.D.
16	2,4-Dinitrotoluene	121-14-2	100	N.D.
17	Anthracene oil	90640-80-5	100	N.D.
18	Anthracene oil, anthracene paste	90640-81-6	100	N.D.
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	100	N.D.
20	Anthracene oil, anthracene paste, distn. lights	91995-17-4	100	N.D.
21	Anthracene oil, anthracene-low	90640-82-7	100	N.D.
22	Diisobutyl phthalate	84-69-5	100	N.D.
23	Lead chromate	7758-97-6	100	N.D.
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	100	N.D.
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	100	N.D.
26	Pitch, coal tar, high temp.	65996-93-2	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
27	Tris(2-chloroethyl) phosphate	115-96-8	100	N.D.
28	Acrylamide	79-06-1	100	N.D.
29	Ammonium dichromate	7789-09-5	100	N.D.
30	Boric acid (Boric acid; Boric acid, crude natural)	10043-35-3, 11113-50-1	100	N.D.
31	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	100	N.D.
32	Potassium chromate	7789-00-6	100	N.D.
33	Potassium dichromate	7778-50-9	100	N.D.
34	Sodium chromate	7775-11-3	100	N.D.
35	Tetraboron disodium heptaoxide, hydrate	12267-73-1	100	N.D.
36	Trichloroethylene	79-01-6	100	N.D.
37	2-Ethoxyethanol	110-80-5	100	N.D.
38	2-Methoxyethanol	109-86-4	100	N.D.
39	Acids generated from chromium trioxide and their oligomers (Dichromic acid, Oligomers of chromic acid and dichromic acid, Chromic acid)	13530-68-2, 7738-94-5	100	N.D.
40	Chromium trioxide	1333-82-0	100	N.D.
41	Cobalt (II) carbonate	513-79-1	100	N.D.
42	Cobalt(II) diacetate	71-48-7	100	N.D.
43	Cobalt(II) dinitrate	10141-05-6	100	N.D.
44	Cobalt (II) sulphate	10124-43-3	100	N.D.
45	1,2,3-trichloropropane	96-18-4	100	N.D.
46	1, 2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	100	N.D.
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	100	N.D.
48	1-Methyl-2-pyrrolidone (NMP)	872-50-4	100	N.D.
49	2-Ethoxyethyl acetate	111-15-9	100	N.D.
50	Hydrazine	7803-57-8 302-01-2	100	N.D.
51	Strontium chromate	7789-06-2	100	N.D.
52	1,2-dichloroethane	107-06-2	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	100	N.D.
54	2-Methoxyaniline, o-Anisidine	90-04-0	100	N.D.
55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	100	N.D.
56*	Aluminosilicate Refractory Ceramic Fibres	--	100	N.D.
57	Arsenic acid	7778-39-4	100	N.D.
58	Bis(2-methoxyethyl) ether	111-96-6	100	N.D.
59	Bis(2-methoxyethyl) phthalate	117-82-8	100	N.D.
60	Calcium arsenate	7778-44-1	100	N.D.
61	Dichromium tris(chromate)	24613-89-6	100	N.D.
62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	100	N.D.
63	Lead diazide, Lead azide	13424-46-9	100	N.D.
64	Lead dipicrate	6477-64-1	100	N.D.
65	Lead styphnate	15245-44-0	100	N.D.
66	N,N-dimethylacetamide	127-19-5	100	N.D.
67	Pentazinc chromate octahydroxide	49663-84-5	100	N.D.
68	Phenolphthalein	77-09-8	100	N.D.
69	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	100	N.D.
70	Trilead diarsenate	3687-31-8	100	N.D.
71*	Zirconia Aluminosilicate, Refractory Ceramic Fibres	--	100	N.D.
72	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	100	N.D.
73	1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	100	N.D.
74	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	2451-62-9	100	N.D.
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	100	N.D.
76**	4,4'-bis(dimethylamino)-4''-(dimethylamino)trityl alcohol	561-41-1	100	N.D.
77	4,4'-bis (dimethylamino) benzophenone (Michler's ketone)	90-94-8	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
78**	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	100	N.D.
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	100	N.D.
80	Diboron trioxide	1303-86-2	100	N.D.
81	Formamide	75-12-7	100	N.D.
82	Lead (II) bis (methanesulfonate)	17570-76-2	100	N.D.
83	N, N, N', N' -tetramethyl -4,4' -methylenedianiline (Michler's base)	101-61-1	100	N.D.
84**	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	100	N.D.
85	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	100	N.D.
86	1,2-diethoxyethane	629-14-1	100	N.D.
87	1-bromopropane (n-propyl bromide)	106-94-5	100	N.D.
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	100	N.D.
89	4,4'-methylenedi-o-toluidine	838-88-0	100	N.D.
90	4,4'-oxydianiline and its salts (4,4'-oxydianiline)	101-80-4	100	N.D.
91	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	--	100	N.D.
92	4-aminoazobenzene	60-09-3	100	N.D.
93	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	100	N.D.
94	4-Nonylphenol, branched and linear	--	100	N.D.
95	6-methoxy-m-toluidine (p-cresidine)	120-71-8	100	N.D.
96	[Phthalato(2-)]dioxotrilead	69011-06-9	100	N.D.
97	Acetic acid, lead salt, basic	51404-69-4	100	N.D.
98	Biphenyl-4-ylamine	92-67-1	100	N.D.
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
100	Cyclohexane-1,2-dicarboxylic anhydride(Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride; trans-cyclohexane-1,2-dicarboxylic anhydride)	85-42-7, 13149-00-3, 14166-21-3	100	N.D.
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	100	N.D.
102	Dibutyltin dichloride (DBTC)	683-18-1	100	N.D.
103	Diethyl sulphate	64-67-5	100	N.D.
104	Diisopentyl phthalate (DIPP)	605-50-5	100	N.D.
105	Dimethyl sulphate	77-78-1	100	N.D.
106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	100	N.D.
107	Dioxobis(stearato)trilead	12578-12-0	100	N.D.
108	Fatty acids, C16-18, lead salts	91031-62-8	100	N.D.
109	Furan	110-00-9	100	N.D.
110	Henicosafuoroundecanoic acid	2058-94-8	100	N.D.
111	Heptacosafuorotetradecanoic acid	376-06-7	100	N.D.
112	Hexahydromethylphthalic anhydride (Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride)	25550-51-0, 19438-60-9, 57110-29-9	100	N.D.
113	Lead bis(tetrafluoroborate)	13814-96-5	100	N.D.
114	Lead cyanamidate	20837-86-9	100	N.D.
115	Lead dinitrate	10099-74-8	100	N.D.
116	Lead monoxide (Lead oxide)	1317-36-8	100	N.D.
117	Lead oxide sulfate	12036-76-9	100	N.D.
118	Lead titanium trioxide	12060-00-3	100	N.D.
119	Lead titanium zirconium oxide	12626-81-2	100	N.D.
120	Methoxyacetic acid	625-45-6	100	N.D.
121	Methyloxirane (Propylene oxide)	75-56-9	100	N.D.
122	N,N-dimethylformamide	68-12-2	100	N.D.
123	N-methylacetamide	79-16-3	100	N.D.
124	N-pentyl-isopentylphthalate	776297-69-9	100	N.D.

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				001
125	o-aminoazotoluene	97-56-3	100	N.D.
126	o-toluidine	95-53-4	100	N.D.
127	Orange lead (Lead tetroxide)	1314-41-6	100	N.D.
128	Pentacosafluorotridecanoic acid	72629-94-8	100	N.D.
129	Pentalead tetraoxide sulphate	12065-90-6	100	N.D.
130	Pyrochlore, antimony lead yellow	8012-00-8	100	N.D.
131	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	68784-75-8	100	N.D.
132	Silicic acid, lead salt	11120-22-2	100	N.D.
133	Sulfurous acid, lead salt, dibasic	62229-08-7	100	N.D.
134	Tetraethyllead	78-00-2	100	N.D.
135	Tetralead trioxide sulphate	12202-17-4	100	N.D.
136	Tricosfluorododecanoic acid	307-55-1	100	N.D.
137	Trilead bis(carbonate) dihydroxide	1319-46-6	100	N.D.
138	Trilead dioxide phosphonate	12141-20-7	100	N.D.
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]	--	100	N.D.
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	100	N.D.
141	Cadmium	7440-43-9	100	N.D.
142	Cadmium oxide	1306-19-0	100	N.D.
143	Dipentyl phthalate (DPP)	131-18-0	100	N.D.
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	100	N.D.
145	Cadmium sulphide	1306-23-6	100	N.D.
146	Dihexyl phthalate	84-75-3	100	N.D.
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis (azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] o] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate(C.I. Direct Black 38)	1937-37-7	100	N.D.
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	100	N.D.
150	Lead di(acetate)	301-04-2	100	N.D.
151	Trixylyl phosphate	25155-23-1	100	N.D.
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	100	N.D.
153	Cadmium chloride	10108-64-2	100	N.D.
154	Sodium perborate; perboric acid, sodium salt	--	100	N.D.
155	Sodium peroxometaborate	7632-04-4	100	N.D.
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpent ylphenol (UV-328)	25973-55-1	100	N.D.
157	2-benzotriazol-2-yl-4,6-di-tert-butylph enol (UV-320)	3846-71-7	100	N.D.
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-d ithia-4-stannatetradecanoate (DOTE)	15571-58-1	100	N.D.
159	Cadmium fluoride	7790-79-6	100	N.D.
160	Cadmium sulphate	10124-36-4; 31119-53-6	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
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)	--	100	N.D.
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with \geq 0.3% of dihexyl phthalate (EC No. 201-559-5) (1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters, 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters)	68515-51-5; 68648-93-1	100	N.D.
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]	--	100	N.D.
164	1,3-propanesultone	1120-71-4	100	N.D.
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	100	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	N.D.
167	Nitrobenzene	98-95-3	100	N.D.
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts (Perfluorononan-1-oic-acid, Sodium salts of perfluorononan-1-oic-acid, Ammonium salts of perfluorononan-1-oic-acid)	375-95-1 21049-39-8 4149-60-4	100	N.D.
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	100	N.D.
170	4,4'-isopropylidenediphenol (Bisphenol A; BPA)	80-05-7	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
171	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--	100	N.D.
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (Nonadecafluorodecanoic acid, Ammonium nonadecafluorodecanoate, sodium nonadecafluorodecanoate, Decanoic acid, nonadecafluoro-, sodium salt)	335-76-2, 3108-42-7, 3830-45-3	100	N.D.
173	p-(1,1-Dimethylpropyl)phenol	80-46-6	100	N.D.
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	--	100	N.D.
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.0 2,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	--	100	N.D.
176	Benzo(a)anthracene	56-55-3	100	N.D.
177	Cadmium carbonate	513-78-0	100	N.D.
178	Cadmium hydroxide	21041-95-2	100	N.D.
179	Cadmium nitrate	10325-94-7	100	N.D.
180	Chrysene	218-01-9	100	N.D.
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]	--	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	100	N.D.
183	Benzo[ghi]perylene	191-24-2	100	N.D.
184	Decamethylcyclopentasiloxane (D5)	541-02-6	100	N.D.
185	Dicyclohexyl phthalate (DCHP)	84-61-7	100	N.D.
186	Disodium octaborate	12008-41-2	100	N.D.
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	100	N.D.
188	Ethylenediamine (EDA)	107-15-3	100	N.D.
189	Lead	7439-92-1	100	N.D.
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	100	N.D.
191	Terphenyl hydrogenated	61788-32-7	100	N.D.
192	1,7,7-trimethyl-3- (phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	100	N.D.
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	100	N.D.
194	Benzo[k]fluoranthene	207-08-9	100	N.D.
195	Fluoranthene	206-44-0	100	N.D.
196	Phenanthrene	85-01-8	100	N.D.
197	Pyrene	129-00-0	100	N.D.
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)	--	100	N.D.
199	2-methoxyethyl acetate	110-49-6	100	N.D.
200	4-tert-butylphenol	98-54-4	100	N.D.
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	--	100	N.D.
202	2-benzyl-2-dimethylamine-4'-morpholinobutyrophenone (CG 25-369; IRGACURE 369; TK 11-319)	119313-12-1	100	N.D.
203	2-methy-1- (4-methylthiophenyl) -2-morpholinobutyropan-1-one	71868-10-5	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
204	Diisohexyl phthate	71850-09-4	100	N.D.
205	Perfluorobutane sulfonic acid (PFBS) and its salts	--	100	N.D.
206	1-vinylimidazole	1072-63-5	100	N.D.
207	2-methylimidazole	693-98-1	100	N.D.
208	Butyl 4-hydroxybenzoate	94-26-8	100	N.D.
209	Dibutylbis (pentane-2,4-dionato-O,O') tin	22673-19-4	100	N.D.
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	100	N.D.
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C 12 is the predominant carbon number of the fatty acyloxy moiety	--	100	N.D.
212	1,4-dioxane	123-91-1	100	N.D.
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)	--	100	N.D.
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--	100	N.D.
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	100	N.D.
216	Glutaral	111-30-8	100	N.D.
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)	--	100	N.D.
218	orthoboric acid, sodium salt	--	100	N.D.

No.	Test Item(s)	CAS No.	MDL	Test Result(s)
				001
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	--	100	N.D.
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)	--	100	N.D.
221	6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol (DBMC)	119-47-1	100	N.D.
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	100	N.D.
223	tirs (2-methoxyethoxy) vinylsilane	1067-53-4	100	N.D.
224	N-(hydroxymethyl)acrylamide	924-42-5	100	N.D.

Remarks:

- Unit: mg/kg. 1000mg/kg = 1000ppm = 0.1%. N.D. = Not detected (<MDL); MDL = Method Detection Limits.
- *: Be 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:
 - (56*) Aluminosilicate Refractory Ceramic Fibres
 - oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges
 - fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm)
 - alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight
 - (71*) Zirconia Aluminosilicate Refractory Ceramic Fibres
 - oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges.
 - fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).
 - alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight.
- ** (Items 76, 78, 79, 84) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] is identified as a substance meeting the criteria of Article 57 (a) of Regulation (EC) 1907/2006

(REACH) owing to its classification as carcinogen category 1A or 1B.

4. The substances are tested by in-house methods: CIRS-CG001-2021, CIRS-CG002-2021, CIRS-CG003-2021, CIRS-CG004-2021, CIRS-CG005-2021, CIRS-CG006-2021, CIRS-CG007-2021, CIRS-CG008-2021, CIRS-CG009-2021, CIRS-CG010-2021, CIRS-CG011-2021, CIRS-CG012-2021, CIRS-CG013-2021, CIRS-CG014-2021, CIRS-CG015-2021, CIRS-CG016-2021, CIRS-CG020-2021 and CIRS-CG021-2021 which refer to the methods listed below:
 - 1) US EPA 3550C:2007 Ultrasonic Extraction.
 - 2) US EPA 8270E:2018 Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry.
 - 3) EN 14372:2004 Child use and care articles-Cutlery and feeding utensils-Safety requirements and tests.
 - 4) CPSC CH-C1001-09.4 Standard Operating Procedure for Determination of phthalates.
 - 5) GB/T 22048-2015 Determination of certain phthalate esters in toys and children's products.
 - 6) EPA 3580A:1992 Waste Dilution.
 - 7) ISO 14362-1:2017 Textiles- Methods for determination of certain aromatic amines derived from Azo colorants-Part 1: Detection of the use of certain Azo colorants accessible with and without extracting the fibres.
 - 8) ISO 14362-3:2017 Textiles. Methods for determination of certain aromatic amines derived from Azo colorants. Part 3:Detection of the use of certain Azo colorants, which may release 4-aminoazobenzene.
 - 9) ISO 17234-1:2020 Leather -Chemical tests for the determination of certain azo colorants in dved leathers Part 1: Determination of certain aromatic amines derived from azo colorants.
 - 10) GB 19601-2013 Limit and determination of 23 harmful aromatic amines in dye products.
 - 11) ISO 18219-1:2021 Leather-Determination of chlorinated hydrocarbons in leather Part 1:Chromatographic method for shortchain chlorinated paraffins (SCCPs).
 - 12) ISO 18219-2:2021 Leather-Determination of chlorinated hydrocarbons in leather — Part 2: Chromatographic method for middle-chain chlorinated paraffins (MCCPs).
 - 13) GB/T 40030-2021 Determination of medium chain chlorinated paraffins in electrical and electronic products.
 - 14) GB/T 34842-2017 Footwear-Chemical tests—Determination of formamide.
 - 15) ISO 16189:2013 Footwear-Critical substances potentially present in footwear and footwear components -Test method to quantitatively determine dimethylformamide in footwear materials.
 - 16) EN 71-3:2019+A1:2021 Safety Of Toys - Part 3: Migration Of Certain Elements Annex G: Method of analysis for organic tin.
 - 17) GB/T 32447-2015 Footwear-Critical substances potentially present in footwear and footwear components-Determination of organotin compounds in footwear materials.
 - 18) AfPS GS 2019:01 PAK Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of awarding the GS mark.
 - 19) GB/T 36488-2018 Determination of polycyclic aromatic hydrocarbons in coatings.
 - 20) IEC 62321-6:2015 Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography -mass spectrometry (GC-MS).
 - 21) GB/T 29785-2013 Determination of hexabromocyclododecane in electrical and electronic products - Gas chromatography-mass spectrometry.
 - 22) IEC 62321-6:2015 Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography -mass spectrometry (GC-MS).

- 23) QCT 944-2013 Test Methods of Polybrominated Biphenyls and Polybrominated Diphenyl Ethers in Automobiles Materials.
- 24) GB/T 26125-2011 Electrical and electronic products - Determination of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers).
- 25) ASTM D7065:2017 Standard Test Method for Determination of Nonylphenol, Bisphenol A, p-tert-Octylphenol, Nonylphenol Monoethoxylate and Nonylphenol Diethoxylate in Environmental Waters by Gas Chromatography Mass Spectrometry.
- 26) ISO 18218-2:2019 Leather - Determination of ethoxylated alkylphenols. Part 2: Indirect.
- 27) SN/T 1850.1-2006 Determination of alkylphenol polyethoxylates in textiles. Part 1: High performance liquid chromatography method.
- 28) DIN 54231:2005 Textiles - Detection of disperse dyestuffs.
- 29) US EPA 8321B:2007 Solvent-extractable nonvolatile compounds by high-performance liquid chromatography/thermospray/ mass spectrometry (HPLC/TS/MS) or ultraviolet (UV) detection.
- 30) GB/T 29609-2013 Rubber-Determination of phenol and biphenyl-A.
- 31) SN/T 3866-2014 Determination of phenolphthalein and emodin in health food for export. LC-MS/MS method.
- 32) ISO 18254-1:2016 Textiles - Method for the detection and determination of alkylphenol ethoxylates (APEO)-Part 1: Method using HPLC-MS.
- 33) GB/T 19941.1-2019 Leather and fur- Determination of formaldehyde content.
- 34) ISO 17226-1-2021 Leather-Chemical determination of formaldehyde content Part 1: Method using high-performance liquid chromatography.
- 35) GB/T 23986-2009 Paints and varnishes - Determination of volatile organic compound (VOC) content - Gas-chromatographic method.
- 36) GB 38468-2019 Limit of harmful substances of interior floor coatings.
- 37) GB 24408-2009 Limit of harmful substances of exterior wall coatings.
- 38) SN /T 1802-2014 Determination of ethyleneglycol monoalkyl ethers and esters in indoor coatings - Gas chromatography.
- 39) US EPA 3050B:1996 Acid Digestion of Sediments, Sludges, and Soils.
- 40) US EPA 3051A:2007 Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils.
- 41) US EPA 3052:1996 Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices.
- 42) US EPA 6010D:2018 Inductively Coupled Plasma-Optical Emission Spectrometry.
- 43) QC/T 943-2013 Test methods of lead and cadmium in automobiles materials.
- 44) IEC 62321-3-1:2013 Screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry.
- 45) IEC 62321-5:2013 Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS.
- 46) ISO 17075-1:2017 Leather-Chemical tests-Determination of chromium(VI) content.
- 47) US EPA 3060A:1996 Alkaline Digestion for Hexavalent Chromium.
- 48) US EPA 7196A:1992 Chromium, Hexavalent (Colorimetric).
- 49) ISO 3613:2021 Test methods—Metallic and other inorganic coatings- Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zincaluminium alloys.

- 50) GB/T 22807-2008 Leather and fur - Chemical tests - Determination of chromium VI content.
- 51) QC/T 942-2013 Test methods of hexavalent chromium in automobiles materials.
- 52) IEC 62321-7-1:2015 Hexavalent chromium - Presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method.
- 53) IEC 62321-7-2:2017 Hexavalent chromium - Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method.
- 54) GB/T 23992-2009 Determination of chlorhydrocarbon content in coatings - Gas chromatographic method.
- 55) GB 31604.27-2016 Food contact materials-Determination of ethylene oxide and propylene oxide in plastics- Gas chromatography.

5. Because it is difficult to detect the substances (Cobalt dichloride, Diarsenic pentaoxide, Diarsenic trioxide, Lead hydrogen arsenate, Sodium dichromate, Triethyl arsenate, Lead chromate, Lead chromate molybdate sulphate red (C.I. Pigment Red 104), Lead sulfochromate yellow (C.I. Pigment Yellow 34), Ammonium dichromate, Boric acid (Boric acid; Boric acid, crude natural), Disodium tetraborate, anhydrous, Potassium chromate, Potassium dichromate, Sodium chromate, Tetraboron disodium heptaoxide, hydrate, Acids generated from chromium trioxide and their oligomers (Dichromic acid, Oligomers of chromic acid and dichromic acid, Chromic acid), Chromium trioxide, Cobalt (II) carbonate, Cobalt(II) diacetate, Cobalt(II) dinitrate, Cobalt (II) sulphate, Strontium chromate, Aluminosilicate Refractory Ceramic Fibres, Arsenic acid, Calcium arsenate, Dichromium tris(chromate), Lead diazide, Lead azide, Lead dipicrate, Lead styphnate, Pentazinc chromate octahydroxide, Potassium hydroxyoctaoxidizincatedichromate, Trilead diarsenate, Zirconia Aluminosilicate, Refractory Ceramic Fibres, Diboron trioxide, Lead (II) bis (methanesulfonate), [Phthalato(2-)]dioxotrilead, Acetic acid, lead salt, basic, Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Lead bis(tetrafluoroborate), Lead cyanamide, Lead dinitrate, Lead monoxide (Lead oxide), Lead oxide sulfate, Lead titanium trioxide, Lead titanium zirconium oxide, Orange lead (Lead tetroxide), Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped, Silicic acid, lead salt, Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead bis(carbonate) dihydroxide, Trilead dioxide phosphonate, Cadmium oxide, Cadmium sulphide, Lead di(acetate), Cadmium chloride, Sodium perborate; perboric acid, sodium salt, Sodium peroxometaborate, Cadmium fluoride, Cadmium sulphate, Cadmium carbonate, Cadmium hydroxide, Cadmium nitrate, Disodium octaborate, orthoboric acid, sodium salt) via direct tests but via converting them into detectable elements, we consider that all the relative elements exist in the form of their compounds when having the test, However, if the compound obtained by conversion reaches the maximum value, other compounds of the corresponding element are not exist.

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The end of report