TEST REPORT

LAB NO. : (8822)213-0091
DATE : Aug 10, 2022

Applicant Name:	**FUJIAN SBS ZIPPER SCIENCE AND TECHNOLOGY CO.LTD**
Applicant Address:	SHENHU INDUSTRIAL ZONE JINJIANG CITY FUJIAN PROVINCE
Date of Submission:	AUG 1, 2022
Test Period:	AUG 1, 2022 TO AUG 10, 2022
Sample Description:	PLASTIC ZIPPER
Sample Size:	5

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH	No SVHC was detected exceeding 0,1% (w/w)	-

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Lisa Bai
Analytical lab Senior Supervisor

RT/Lucy Chen

REMARK

If there are questions or concerns on this report, please contact the following persons:
Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@bureauveritas.com
Business Contact: (86) 0769 85893595

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Bureau Veritas Shenzhen Co., Ltd., Dongguan Branch
No.96, Houjie, Guantai Road., Houjie, Dongguan,Guangdong, China
Tel: +86-769-89982098
Fax: +86-769-85991080
www.cps.bureauveritas.com

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Photo of the Submitted Sample

TEST RESULT

Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH

Test Method:	Analysis is based on GC, LC, IC, ICP, with various detection techniques and UV.

Test Item(s)	Item / Component Description(s)	Location	Weight(g)
Product	PLASTIC ZIPPER	-	30.92

Maximum Allowable Limit :	0.1% (Each of Listed)

Test Item(s)	Result		
	Detected Analyte(s)	Conc.	Unit
Product	ND	ND	%

Remark:

ND = Not detected ">" = Greater than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
% = percent 10000 mg/kg = 1 %
Detection Limit: See Appendix I

- The list of Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH and is summarized in table of appendix I & II.

APPENDIX I

No.	Substance name	CAS No.	EC No.	Detection Limit, %	Basis for identification as a SVHC
1	Triethyl arsenate*	15606-95-8	427-700-2	0.05	Carcinogenic
2	Anthracene	120-12-7	204-371-1	0.05	PBT
3	4,4'-Diaminodiphenyl methane (MDA)	101-77-9	202-974-4	0.05	Carcinogenic
4	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.05	Toxic for reproduction; Equivalent level of concern having probable serious effects to human health
5	Cobalt dichloride*	7646-79-9	231-589-4	0.05	Carcinogenic
6	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.05	Carcinogenic
7	Diarsenic trioxide*	1327-53-3	215-481-4	0.05	Carcinogenic
8	Sodium dichromate*	7789-12-0(1), 10588-01-9(2)	234-190-3	0.05	Carcinogenic; Mutagenic; Toxic for reproduction
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.05	vPvB
10	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.05	Toxic for reproduction; Equivalent level of concern having probable serious effects to environment and human health
11	Hexabromo cyclododecane (HBCDD) and all major diastereoisomers identified: α - HBCDD β - HBCDD γ - HBCDD	3194-55-6(3), 25637-99-4(4) 134237-50-6 134237-51-7 134237-52-8	247-148-4, 221-695-9	0.05	PBT
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	0.05	PBT, vPvB
13	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	0.05	PBT
14	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.05	Carcinogenic;

					Toxic for reproduction
15	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.05	Toxic for reproduction; Equivalent level of concern having probable serious effects to human health
16	2,4-Dinitrotoluene	121-14-2	204-450-0	0.05	Carcinogenic
17	Anthracene oil	90640-80-5	292-602-7	0.1	Carcinogenic, PBT, vPvB
18	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	0.1	Carcinogenic; Mutagenic, PBT, vPvB
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.1	Carcinogenic; Mutagenic, PBT, vPvB
20	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.1	Carcinogenic; Mutagenic, PBT, vPvB
21	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.1	Carcinogenic; Mutagenic, PBT, vPvB
22	Diisobutyl phthalate	84-69-5	201-553-2	0.05	Toxic for reproduction; Equivalent level of concern having probable serious effects to human health
23	Aluminosilicate, Refractory Ceramic Fibres*[a]	Index no. 650-017-00-8		0.05	Carcinogenic
24	Zirconia Aluminosilicate, Refractory Ceramic Fibres*[b]	Index no. 650-017-00-8		0.05	Carcinogenic
25	Lead chromate*	7758-97-6	231-846-0	0.05	Carcinogenic; Toxic for reproduction
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	0.05	Carcinogenic; Toxic for reproduction
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	0.05	Carcinogenic; Toxic for reproduction
28	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	0.05	Toxic for reproduction
29	Coal tar pitch, high temperature	65996-93-2	266-028-2	0.1	Carcinogenic, PBT, vPvB
30	Acrylamide	79-06-1	201-173-7	0.05	Carcinogenic; Mutagenic
31	Trichloroethylene	79-01-6	201-167-4	0.05	Carcinogenic
32	Boric acid*	10043-35-3, 11113-50-1	233-139-2 / 234-343-4	0.05	Toxic for reproduction
33	Disodium tetraborate, anhydrous*	1330-43-4[(5)], 12179-04-3[(6)], 1303-96-4[(7)]	215-540-4	0.05	Toxic for reproduction

34	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.05	Toxic for reproduction
35	Sodium chromate*	7775-11-3	231-889-5	0.05	Carcinogenic; Mutagenic; Toxic for reproduction
36	Potassium chromate*	7789-00-6	232-140-5	0.05	Carcinogenic; Mutagenic
37	Ammonium dichromate*	7789-09-5	232-143-1	0.05	Carcinogenic; Mutagenic; Toxic for reproduction
38	Potassium dichromate*	7778-50-9	231-906-6	0.05	Carcinogenic; Mutagenic; Toxic for reproduction
39	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.05	Carcinogenic; Toxic for reproduction
40	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.05	Carcinogenic; Toxic for reproduction
41	Cobalt(II) carbonate*	513-79-1	208-169-4	0.05	Carcinogenic; Toxic for reproduction
42	Cobalt(II) diacetate*	71-48-7	200-755-8	0.05	Carcinogenic; Toxic for reproduction
43	2-Methoxyethanol	109-86-4	203-713-7	0.05	Toxic for reproduction
44	2-Ethoxyethanol	110-80-5	203-804-1	0.05	Toxic for reproduction
45	Chromium trioxide*	1333-82-0	215-607-8	0.05	Carcinogenic; Mutagenic
46	Acid generated from chromium trioxide and their oligomers: Chromic acid* Dichromic acid* Oligomers of chromic acid and dichromic acid*	 7738-94-5 13530-68-2 -	 231-801-5 236-881-5 -	0.05	Carcinogenic
47	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.05	Toxic for reproduction
48	Strontium Chromate*	7789-06-2	232-142-6	0.05	Carcinogenic
49	1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester	68515-42-4	271-084-6	0.05	Toxic for reproduction
50	Hydrazine	302-01-2 7803-57-8	206-114-9	0.05	Carcinogenic
51	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.05	Toxic for reproduction

52	1,2,3-trichloropropane	96-18-4	202-486-1	0.05	Toxic for reproduction
53	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)	71888-89-6	276-158-1	0.05	Toxic for reproduction
54	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.05	Carcinogenic
55	Potassium hydroxyoctaoxodizincatedi-chromate*	11103-86-9	234-329-8	0.05	Carcinogenic
56	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.05	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.05	Carcinogenic
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.05	Toxic for reproduction
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.05	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.05	Equivalent level of concern
61	1,2-Dichloroethane	107-06-2	203-458-1	0.05	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.05	Toxic for reproduction
63	Arsenic acid*	7778-39-4	231-901-9	0.1	Carcinogenic
64	Calcium arsenate*	7778-44-1	231-904-5	0.05	Carcinogenic
65	Trilead diarsenate*	3687-31-8	222-979-5	0.05	Carcinogenic; Toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.05	Toxic for reproduction
67	2,2'-dichloro-4,4'-methylene dianiline (MOCA)	101-14-4	202-918-9	0.05	Carcinogenic
68	Phenolphthalein	77-09-8	201-004-7	0.05	Carcinogenic
69	Lead azide, Lead diazide*	13424-46-9	236-542-1	0.05	Toxic for reproduction
70	Lead styphnate*	15245-44-0	239-290-0	0.05	Toxic for reproduction
71	Lead dipicrate*	6477-64-1	229-335-2	0.05	Toxic for reproduction
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.05	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.05	Toxic for reproduction
74	Diboron trioxide*	1303-86-2	215-125-8	0.05	Toxic for reproduction
75	Formamide	75-12-7	200-842-0	0.05	Toxic for reproduction

76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.05	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)§	2451-62-9	219-514-3	0.05	Mutagenic
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)§	59653-74-6	423-400-0	0.05	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	0.05	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.05	Carcinogenic
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.05	Carcinogenic
82	[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	0.05	Carcinogenic
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.05	Carcinogenic
84	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	561-41-1	209-218-2	0.05	Carcinogenic
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.05	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
86	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.05	Toxic for reproduction
87	Methoxy acetic acid	625-45-6	210-894-6	0.05	Toxic for reproduction ; equivalent level of

					concern
88	Dibutyltin dichloride (DBT)[ab]	683-18-1	211-670-0	0.05	Toxic for reproduction
89	1,2-Diethoxyethane	629-14-1	211-076-1	0.05	Toxic for reproduction
90	Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.05	Equivalent level of concern
91	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.05	Equivalent level of concern
92	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	-	-	0.05	Equivalent level of concern
93	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	0.05	Very persistent and very bioaccumulative
94	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear[+]	84777-06-0	284-032-2	0.05	Toxic for reproduction
95	Henicosafluoroundecanoic acid	2058-94-8	218-165-4	0.05	Very persistent and very bioaccumulative
96	N-pentyl-isopentylphtalate (iPnPP) [+]	776297-69-9	-	0.05	Toxic for reproduction
97	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	0.05	Very persistent and very bioaccumulative
98	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and	-	-	0.05	Equivalent level of concern

	UVCB substances, polymers and homologues				
99	Tricosafluorododecanoic acid	307-55-1	206-203-2	0.05	Very persistent and very bioaccumulative
100	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.05	Toxic for reproduction
101	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	0.05	Toxic for reproduction
102	Diethyl sulphate	64-67-5	200-589-6	0.05	Carcinogenic; Mutagenic
103	Dinoseb	88-85-7	201-861-7	0.05	Toxic for reproduction
104	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	0.05	Toxic for reproduction
105	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.05	Toxic for reproduction
106	Furan	110-00-9	203-727-3	0.05	Carcinogenic
107	N-methylacetamide	79-16-3	201-182-6	0.05	Toxic for reproduction
108	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.05	Carcinogenic
109	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.05	Toxic for reproduction
110	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05	Carcinogenic; Mutagenic
111	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	273-688-5	0.05	Toxic for reproduction
112	Lead titanium trioxide*	12060-00-3	235-038-9	0.05	Toxic for reproduction
113	Lead oxide sulphate*	12036-76-9	234-853-7	0.05	Toxic for reproduction
114	Lead dinitrate*	10099-74-8	233-245-9	0.05	Toxic for reproduction
115	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.05	Carcinogenic
116	Lead cyanamidate*	20837-86-9	244-073-9	0.05	Toxic for reproduction
117	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.05	Toxic for reproduction
118	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.05	Carcinogenic
119	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.05	Toxic for reproduction
120	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	0.05	Toxic for reproduction
121	Dimethyl sulphate	77-78-1	201-058-1	0.05	Carcinogenic
122	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.05	Toxic for reproduction
123	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	0.05	Toxic for reproduction
124	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05	Carcinogenic

125	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	0.05	Toxic for reproduction
126	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.05	Toxic for reproduction
127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.05	Carcinogenic; Mutagenic
128	Silicic acid, lead salt*	11120-22-2	234-363-3	0.05	Toxic for reproduction
129	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.05	Toxic for reproduction
130	o-aminoazotoluene	97-56-3	202-591-2	0.05	Carcinogenic
131	1-bromopropane	106-94-5	203-445-0	0.05	Toxic for reproduction
132	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.05	Carcinogenic
133	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05	Carcinogenic
134	Tetraethyllead*	78-00-2	201-075-4	0.05	Toxic for reproduction
135	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.05	Toxic for reproduction
136	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.05	Toxic for reproduction
137	Diisopentylphthalate^{+}	605-50-5	210-088-4	0.05	Toxic for reproduction
138	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05	Equivalent level of concern
139	Cadmium*	7440-43-9	231-152-8	0.05	Carcinogenic; Equivalent level of concern
140	Cadmium oxide*	1306-19-0	215-146-2	0.05	Carcinogenic; Equivalent level of concern
141	Dipentyl phthalate (DPP)$^{+}$	131-18-0	205-017-9	0.05	Toxic for reproduction
142	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]*	-	-	0.05	Equivalent level of concern
143	Ammonium pentadecafluorooctanoate (APFO)$^{\neq}$	3825-26-1	223-320-4	0.05	Toxic for reproduction; PBT

144	Pentadecafluorooctanoic acid (PFOA)[≠]	335-67-1	206-397-9	0.05	Toxic for reproduction; PBT
145	Cadmium sulphide*	1306-23-6	215-147-8	0.05	Carcinogenic; Equivalent level of concern
146	Dihexyl phthalate	84-75-3	201-559-5	0.05	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	0.05	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	0.05	Carcinogenic
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.05	Toxic for reproduction
150	Lead di(acetate)*	301-04-2	206-104-4	0.05	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	246-677-8	0.05	Toxic for reproduction
152	Cadmium chloride*	10108-64-2	233-296-7	0.05	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear[++]	68515-50-4	271-093-5	0.05	Toxic for reproduction
154	Sodium peroxometaborate*	7632-04-4	231-556-4	0.05	Toxic for reproduction
155	Sodium perborate; perboric acid, sodium salt*	-	239-172-9; 234-390-0	0.05	Toxic for reproduction
156	Cadmium fluoride*	7790-79-6	232-222-0	0.05	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health

157	Cadmium sulphate*	10124-36-4; 31119-53-6	233-331-6	0.05	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.05	PBT; vPvB
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.05	PBT; vPvB
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)[db]	15571-58-1	239-622-4	0.05	Toxic for Reproduction
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)[db]	-	-	0.05	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 (EC No. 201-559-5)	68515-51-5; 68648-93-1	271-094-0; 272-013-1	0.05	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 isomers of [1] and [2] or any combination thereof]	-	-	0.05	vPvB

164	1,3-propanesultone	1120-71-4	214-317-9	0.05	Carcinogenic
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.05	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.05	vPvB
167	Nitrobenzene	98-95-3	202-716-0	0.05	Toxic for reproduction
168	Perfluorononan-1-oic acid acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	206-801-3	0.05	Toxic for reproduction; PBT
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.05	Carcinogenic; Mutagenic; Toxic for Reproduction; PBT; vPvB
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	0.05	Toxic for reproduction; Equivalent level of concern having probable serious effects to human health & environment
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] (4-Hpbl)	-	-	0.05	Equivalent level of concern having probable serious effects to the environment
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3830-45-3, 335-76-2, 3108-42-7	-, 206-400-3, 221-470-5	0.05	Toxic for reproduction; PBT
173	p-(1,1-dimethylpropyl)phenol (PTAP)	80-46-6	201-280-9	0.05	Equivalent level of concern having probable serious effects to the environment

174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.05	vPvB
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15-diene (“Dechlorane Plus”TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.05	vPvB
176	Benz[a]anthracene	56-55-3	200-280-6	0.05	Carcinogenic; PBT; vPvB
177	Cadmium nitrate	10325-94-7	233-710-6	0.05	Carcinogenic; Mutagenic; Equivalent level of concern having probable serious effects to human health
178	Cadmium carbonate	513-78-0	208-168-9	0.05	Carcinogenic; Mutagenic; Equivalent level of concern having probable serious effects to human health
179	Cadmium hydroxide	21041-95-2	244-168-5	0.05	Carcinogenic; Mutagenic; Equivalent level of concern having probable serious effects to human health
180	Chrysene	218-01-9	205-923-4	0.05	Carcinogenic; PBT; vPvB
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,	-	-	0.05	Equivalent level of concern having probable serious effects to the environment

	branched and linear]				
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.05	PBT; vPvB
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.05	PBT; vPvB
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.05	PBT; vPvB
185	Lead	7439-92-1	231-100-4	0.05	Toxic for reproduction
186	Disodium octaborate	12008-41-2	234-541-0	0.05	Toxic for reproduction
187	Benzo[ghi]perylene	191-24-2	205-883-8	0.05	PBT; vPvB
188	Terphenyl hydrogenated	61788-32-7	262-967-7	0.05	vPvB
189	Ethylenediamine (EDA)	107-15-3	203-468-6	0.05	Equivalent level of concern having probable serious effects to human health
190	Benzene-1,2,4- tricarboxylic acid 1,2 anhydride (TMA)	552-30-7	209-008-0	0.05	Equivalent level of concern having probable serious effects to human health
191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.05	Toxic for reproduction; Equivalent level of concern having probable serious effects to human health
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.05	Toxic for reproduction
193	Benzo[k]fluoranthene	207-08-9	205-916-6	0.05	Carcinogenic; PBT; vPvB

194	Fluoranthene	206-44-0	205-912-4	0.05	PBT; vPvB
195	Phenanthrene	85-01-8	201-581-5	0.05	vPvB
196	Pyrene	129-00-0	204-927-3	0.05	PBT; vPvB
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	239-139-9	0.05	Equivalent level of concern having probable serious effects to the environment
198	2-methoxyethyl acetate	110-49-6	203-772-9	0.05	Toxic for reproduction
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.05	Equivalent level of concern having probable serious effects to the environment
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	0.05	Equivalent level of concern having probable serious effects on the environment & human health
201	4-tert-butylphenol (PTBP)	98-54-4	202-679-0	0.05	Equivalent level of concern having probable serious effects to the environment
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.05	Toxic for reproduction
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.05	Toxic for reproduction
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.05	Toxic for reproduction
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.05	Equivalent level of concern having probable serious effects on the environment and human health

206	1-vinylimidazole	1072-63-5	214-012-0	0.05	Toxic for reproduction
207	2-methylimidazole	693-98-1	211-765-7	0.05	Toxic for reproduction
208	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8	202-318-7	0.05	Equivalent level of concern having probable serious effects on the human health
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0	0.05	Toxic for reproduction
210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.05	Toxic for reproduction
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-	0.05	Toxic for reproduction
212	1,4-dioxane	123-91-1	204-661-8	0.05	Carcinogenic; Equivalent level of concern having probable serious effects on the environment & human health
213	2,2-bis(bromomethyl)propane 1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0, 36483-57-5, 1522-92-5, 96-13-9	221-967-7, 253-057-0, 202-480-9	0.05	Carcinogenic
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	0.05	Toxic for reproduction

215	4,4'-(1-methylpropylidene)bis phenol; (bisphenol B)	77-40-7	201-025-1	0.05	Equivalent level of concern having probable serious effects on the environment & human health
216	Glutaral	111-30-8	203-856-5	0.05	Equivalent level of concern having probable serious effects on human health
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]	-	-	0.05	PBT; vPvB
218	Orthoboric acid, sodium salt	13840-56-7	237-560-2	0.05	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)	-	-	0.05	Toxic for reproduction; Equivalent level of concern having probable serious effects on the environment & human health
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	204-327-1	0.05	Toxic for reproduction
221	tris(2-methoxyethoxy) vinylsilane	1067-53-4	213-934-0	0.05	Toxic for reproduction

222	(±)-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)	-	-	0.05	Equivalent level of concern having probable serious effects on human health
223	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9	0.05	PBT
224	N-(hydroxymethyl) acrylamide	924-42-5	213-103-2	0.05	Carcinogenic; Mutagenic

(1) CAS no. 7789-12-0 refers to sodium dichromate dihydrate

(2) CAS no. 10588-01-9 refers to anhydrous sodium dichromate

(3) CAS no. 3194-55-6 refers to a specific HBCDD - 1,2,5,6,9,10-hexabromocyclododecane

(4) CAS no. 25637-99-4 refers to unspecific HBCDD isomer composition

(5) CAS no. 1330-43-4 refers to disodium tetraborate, anhydrous

(6) CAS no. 12179-04-3 refers to sodium tetraborate, pentahydrate

(7) CAS no. 1303-96-4 refers to sodium tetraborate, decahydrate

Remark:

1. PBT = Persistent, bio accumulative and toxic as defined in Regulation (EC) No 1907/2006
2. vPvB = Very persistent and very bio accumulative as defined in Regulation (EC) No 1907/2006
3. ND = Not Detected
4. If the article contains a material type whose weight is <0.1% of the total article weight, this material type is ignored for testing.
5. *Result is based on the heavy metal or inorganic element concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
6. **Result is identified by tributyltin (TBT). Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
7. [§]TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) and β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) are reported as a mixture.
8. [a]Refer to Aluminosilicate, Refractory Ceramic Fibres 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 (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight.
9. [b]Refer to Zirconia Aluminosilicate, Refractory Ceramic Fibres 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 (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight.
10. [+][1,2-Benzenedicarboxylic acid, dipentylester, branched and linear] is a mixture of phthalates contains DPP, DIPP and N-pentyl-isopentylphtalate.
11. [≠]PFOA and APFO are reported together. The result is based on PFOA concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
12. [++][1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear] is a mixture of phthalates contains dihexyl phthalate.
13. [ф]Result is based on the tin metal concentration, and further confirmation for checking DBT, DOTE & MOTE concentration.
14. [ƍ]For the client **ADEO**, tested component photograph(s) **for both PASS & FAIL results** have to be provided.

Note:

1. The limit of 0.1% (w/w) applies to an article. The results were calculated assuming as the submitted sample was an article. However, the results may not be applicable if the intended use of the sample is a substance or mixture. According to REACH, definition of an article, substance and mixture are:
   i. Article - An object during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition
   ii. Substance - A chemical element and its compound in the natural state or obtained by any manufacturing process
   iii. Mixture (Previously known as "Preparation") - A mixture or solution composed of two or more substances

2. In accordance of Article 7 of Regulation (EC) No. 1907/2006 (REACH regulation) – Registration and notification of substances in articles, any producer or importer of articles shall notify ECHA, if a substance meets in criteria in Article 57 and is identified in accordance with Article 59(1), if both (1) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year & (2) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w) are met. The information to be notified shall include (a) identity and contact details of the producer or importer, (b) the registration numbers, (c) the identity of the substance and (d) the classification of the substance, (e) a brief description of the use of the substance and (f) the tonnage range of the substance.

3. In accordance of Article 33 of Regulation (EC) No. 1907/2006 (REACH regulation) – Duty to communicate information on substances in articles, any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in 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. On request by a consumer the relevant information shall be provided by any supplier of an article free of charge, within 45 days of receipt of the request.

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