

Test Report

KE/2020/10571

Report Issue Date : Jan 14, 2020

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Formosa Plastics Corporation
No. 100, Shui-Guan Rd., Jen-Wu Dist., Kaohsiung City, Taiwan (R.O.C.)

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

Product Name : PVC Powder
Product Color : White
Style / Item No. : JW S-60
Material Composition : PVC Powder
Form of Product Enter EU Custom : Mixture
Sample Submitted By : Formosa Plastics Corporation
Date of Sample Received : Jan 08, 2020
Testing Period : Jan 08, 2020 to Jan 14, 2020

Test Requested :

As requested by client, SVHC screening is performed according to:

- Two hundred and one (201) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before July 16, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.
- Four (4) substances newly included in the Consultation List of Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on September 3, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : Please refer to next page(s).

Summary :


According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.

Concentrations of tested SVHC with specific concentration limit (SCL) $\# < 0.1\%$ (w/w) set in Regulation (EC) No. 1272/2008 and its amendments are $<$ reporting limit.

PASS

Please refer to Note 2 on the following page

Ray Chang
Ray Chang Ph.D. / Manager - Tech
Signed for and on behalf of
SGS Taiwan Limited
Chemical Laboratory-Kaohsiung



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:

- <https://echa.europa.eu/candidate-list-table>(Candidate list)

These lists are under evaluation by ECHA and may subject to change in the future.

2. 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 its amendments, 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 mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, 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 liquids (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 limit

Test Sample:

Sample Description:

Component No.	Component Description
1	White PVC Powder

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Test Method:

SGS In-House method - Analyzed by ICP-OES, GC-MS, GC-ECD, GC-FPD, UV-VIS, HPLC-DAD, HPLC-MS, UPLC-MSMS and colorimetric method.

Test Result:

Substance Name	Concentration (%)
	1
All tested SVHC	n.d.

Notes :

1. RL = Reporting Limit. All RL are based on homogenous material.
n.d. = Not detected (lower than RL)
2. # SCL = Specific Concentration Limit. All SCL are set out in Regulation (EC) No 1272/2008 and its amendments. Specific concentration limits and generic concentration limits are limits assigned to a substance indicating a threshold at or above which the presence of that substance in another substance or in a mixture as an identified impurity, additive or individual constituent leads to the classification of the substance or mixture as hazardous. The SVHCs with SCL values <0.1% are specified in the test result tables.

* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.01% for organic substances, 0.001% is evaluated for element (i.e. aluminum, antimony, arsenic, barium, boron, cadmium, calcium, chromium, chromium (VI), cobalt, lead, potassium, silicon, sodium, strontium, titanium, zirconium and zinc respectively), except molybdenum RL = 0.0001%.

▼ Regulation (EC) No 1272/2008 Classification, Labelling and Packaging of Substances and Mixtures, and its amendments.

† Client has the obligation to comply with the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006, unless the use has been exempted from Authorization. Article 56(6) of Regulation (EC) No. 1907/2006 specified the concentration limit requirement of Authorization of SVHC in mixture.

The ECHA SVHC authorization list (Jun 13, 2017) is available at

<https://echa.europa.eu/authorisation-list>

This list is under evaluation by ECHA and may subject to change in the future

3. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

Sample photo:

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SGS authenticate the photo on original report only

*** End of Report ***

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Appendix

No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#	No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008							
1	4,4'-Diaminodiphenylmethane (MDA)*	101-77-9/ 202-974-4	0.010 / -	2	5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)*	81-15-2/ 201-329-4	0.010 / -
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8/ 287-476-5	0.010 / -	4	Anthracene	120-12-7/ 204-371-1	0.010 / -
5	Benzyl butyl phthalate (BBP)*	85-68-7/ 201-622-7	0.010 / -	6	Bis(2-ethylhexyl)phthalate (DEHP)*	117-81-7/ 204-211-0	0.010 / -
7	Bis(tributyltin)oxide (TBTO)	56-35-9/ 200-268-0	0.010 / -	8	Cobalt dichloride*	7646-79-9/ 231-589-4	0.001 / 0.01▼
9	Diarsenic pentaoxide**	1303-28-2/ 215-116-9	0.001 / -	10	Diarsenic trioxide**	1327-53-3/ 215-481-4	0.001 / -
11	Dibutyl phthalate (DBP)*	84-74-2/ 201-557-4	0.010 / -	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)*	25637-99-4/ 247-148-4; 3194-55-6/ 221-695-9; (134237-50-6/-; 134237-51-7/-; 134237-52-8/-)	0.010 / -
13	Lead hydrogen arsenate*	7784-40-9/ 232-064-2	0.001 / -	14	Sodium dichromate**	7789-12-0 10588-01-9/ 234-190-3	0.001 / -
15	Triethyl arsenate*	15606-95-8/ 427-700-2	0.001 / -				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010							
16	2,4-Dinitrotoluene*	121-14-2/ 204-450-0	0.010 / -	17	Anthracene oil**	90640-80-5/ 292-602-7	0.010 / -
18	Anthracene oil, anthracene paste*	90640-81-6/ 292-603-2	0.010 / -	19	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2/ 295-275-9	0.010 / -
20	Anthracene oil, anthracene paste; distn. Lights*	91995-17-4/ 295-278-5	0.010 / -	21	Anthracene oil, anthracene-low*	90640-82-7/ 292-604-8	0.010 / -
22	Diisobutyl phthalate*	84-69-5/ 201-553-2	0.010 / -	23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)**	12656-85-8/ 235-759-9	0.001 / -
24	Lead chromate**	7758-97-6/ 231-846-0	0.001 / -	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)**	1344-37-2/ 215-693-7	0.001 / -
26	Pitch, coal tar, high temp.**	65996-93-2/ 266-028-2	0.00025 / 0.00025▼	27	Tris(2-chloroethyl)phosphate*	115-96-8/ 204-118-5	0.010 / -
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010							
28	Acrylamide	79-06-1/ 201-173-7	0.010 / -				

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No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#	No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010							
29	Ammonium dichromate**	7789-09-5/ 232-143-1	0.001 / -	30	Boric acid*	10043-35-3/ 233-139-2; 11113-50-1/ 234-343-4	0.001 / -
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4	0.001 / -	32	Potassium chromate**	7789-00-6/ 232-140-5	0.001 / -
33	Potassium dichromate**	7778-50-9/ 231-906-6	0.001 / -	34	Sodium chromate**	7775-11-3/ 231-889-5	0.001 / -
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3	0.001 / -	36	Trichloroethylene+	79-01-6/ 201-167-4	0.010 / -
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010							
37	2-Ethoxyethanol	110-80-5/ 203-804-1	0.010 / -	38	2-Methoxyethanol	109-86-4/ 203-713-7	0.010 / -
39	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid**	7738-94-5/ 231-801-5; 13530-68-2/ 236-881-5	0.001 / -	40	Chromium trioxide**	1333-82-0/ 215-607-8	0.001 / -
41	Cobalt(II) carbonate*	513-79-1/ 208-169-4	0.001 / 0.01▼	42	Cobalt(II) diacetate*	71-48-7/ 200-755-8	0.001 / 0.01▼
43	Cobalt(II) dinitrate*	10141-05-6/ 233-402-1	0.001 / 0.01▼	44	Cobalt(II) sulphate*	10124-43-3/ 233-334-2	0.001 / 0.01▼
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011							
45	1,2,3-Trichloropropane	96-18-4/ 202-486-1	0.010 / -	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich*	71888-89-6/ 276-158-1	0.010 / -
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters*	68515-42-4/ 271-084-6	0.010 / -	48	1-Methyl-2-pyrrolidone	872-50-4/ 212-828-1	0.010 / -
49	2-Ethoxyethyl acetate	111-15-9/ 203-839-2	0.010 / -	50	Hydrazine	7803-57-8 302-01-2/ 206-114-9	0.010 / -
51	Strontium chromate**	7789-06-2/ 232-142-6	0.001 / -				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011							
52	1,2-Dichloroethane+	107-06-2/ 203-458-1	0.010 / -	53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)*	101-14-4/ 202-918-9	0.010 / -
54	2-Methoxyaniline	90-04-0/ 201-963-1	0.010 / -	55	4-tert-Octylphenol	140-66-9/ 205-426-2	0.010 / 0.025▼

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No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#	No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#
56	Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.010 / -	57	Arsenic acid**	7778-39-4/ 231-901-9	0.001
58	Bis(2-methoxyethyl) ether*	111-96-6/ 203-924-4	0.010 / -	59	Bis(2-methoxyethyl) phthalate*	117-82-8/ 204-212-6	0.010 / -
60	Calcium arsenate*	7778-44-1/ 231-904-5	0.001 / -	61	Dichromium tris(chromate) **	24613-89-6/ 246-356-2	0.001 / -
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)*	25214-70-4/ 500-036-1	0.010 / -	63	Lead diazide*	13424-46-9/ 236-542-1	0.001 / -
64	Lead dipicrate*	6477-64-1/ 229-335-2	0.001 / -	65	Lead styphnate*	15245-44-0/ 239-290-0	0.001 / -
66	N,N-dimethylacetamide (DMAC)	127-19-5/ 204-826-4	0.010 / -	67	Pentazinc chromate octahydroxide**	49663-84-5/ 256-418-0	0.001 / -
68	Phenolphthalein	77-09-8/ 201-004-7	0.010 / -	69	Potassium hydroxyoctaoxodizincatedichromate**	11103-86-9/ 234-329-8	0.001 / -
70	Trilead diarsenate*	3687-31-8/ 222-979-5	0.001 / -	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.001 / -

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012

72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5/ 219-943-6	0.010 / -	73	[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	0.010 / -
74	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2/ 203-977-3	0.010 / -	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4/ 203-794-9	0.010 / -
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8/ 202-027-5	0.010 / -	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1/ 209-218-2	0.010 / -
78	Diboron trioxide*	1303-86-2/ 215-125-8	0.001 / -	79	Formamide	75-12-7/ 200-842-0	0.010 / -
80	Lead(II) bis(methanesulfonate)*	17570-76-2/ 401-750-5	0.001 / -	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1/ 202-959-2	0.010 / -
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9/ 219-514-3	0.010 / -	83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0/ 229-851-8	0.010 / -
84	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	0.010 / -				

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Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012							
85	[Phthalato(2-)]dioxotrilead *	69011-06-9/ 273-688-5	0.001 / -	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ⁺	84777-06-0/ 284-032-2	0.010 / -
87	1,2-Diethoxyethane	629-14-1/ 211-076-1	0.010 / -	88	1-Bromopropane ⁺	106-94-5/ 203-445-0	0.010 / -
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2/ 421-150-7	0.010 / -	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated ⁺	-	0.010 / -
91	4,4'-Methylenedi- <i>o</i> -toluidine	838-88-0/ 212-658-8	0.010 / -	92	4,4'-Oxydianiline and its salt	101-80-4/ 202-977-0	0.010 / -
93	4-Aminoazobenzene	60-09-3/ 200-453-6	0.010 / -	94	4-Methyl- <i>m</i> -phenylenediamine	95-80-7/ 202-453-1	0.010 / -
95	4-Nonylphenol, branched and linear	-	0.010 / -	96	6-Methoxy- <i>m</i> -toluidine	120-71-8/ 204-419-1	0.010 / -
97	Acetic acid, lead salt, basic [*]	51404-69-4/ 257-175-3	0.001 / -	98	Biphenyl-4-ylamine	92-67-1/ 202-177-1	0.010 / -
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5/ 214-604-9	0.010 / -	100	C,C'-azodi(formamide) (ADCA)	123-77-3/ 204-650-8	0.010 / -
101	Dibutyltin dichloride (DBT)	683-18-1/ 211-670-0	0.010 / 0.01 [▼]	102	Diethyl sulphate	64-67-5/ 200-589-6	0.010 / -
103	Diisopentylphthalate (DIPP) ⁺	605-50-5/ 210-088-4	0.010 / -	104	Dimethyl sulphate	77-78-1/ 201-058-1	0.010 / 0.01 [▼]
105	Dinoseb	88-85-7/ 201-861-7	0.010 / -	106	Dioxobis(stearato)trilead [*]	12578-12-0/ 235-702-8	0.001 / -
107	Fatty acids, C16-18, lead salts [*]	91031-62-8/ 292-966-7	0.001 / -	108	Furan	110-00-9/ 203-727-3	0.010 / -
109	Henicosafuoroundecanoic acid	2058-94-8/ 218-165-4	0.010 / -	110	Heptacosafuorotetradecanoic acid	376-06-7/ 206-803-4	0.010 / -
111	Hexahydro-2-benzofuran-1,3-dione, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7/ 201-604-9; 13149-00-3/ 236-086-3; 14166-21-3/ 238-009-9	0.010 / -	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0/ 247-094-1; 19438-60-9/ 243-072-0; 48122-14-1/ 256-356-4; 57110-29-9/ 260-566-1	0.010 / -
113	Lead bis(tetrafluoroborate) [*]	13814-96-5/ 237-486-0	0.001 / -	114	Lead cyanamidate [*]	20837-86-9/ 244-073-9	0.001 / -
115	Lead dinitrate [*]	10099-74-8/ 233-245-9	0.001 / -	116	Lead monoxide [*]	1317-36-8/ 215-267-0	0.001 / -
117	Lead oxide sulphate [*]	12036-76-9/ 234-853-7	0.001 / -	118	Lead tetroxide [*]	1314-41-6/ 215-235-6	0.001 / -

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No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#	No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#
119	Lead titanium trioxide*	12060-00-3/ 235-038-9	0.001 / -	120	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4	0.001 / -
121	Methoxyacetic acid	625-45-6/ 210-894-6	0.010 / -	122	N,N-Dimethylformamide	68-12-2/ 200-679-5	0.010 / -
123	N-Methylacetamide	79-16-3/ 201-182-6	0.010 / -	124	N-Pentyl-isopentylphthalate*	776297-69-9 /-	0.010 / -
125	o-Aminoazotoluene	97-56-3/ 202-591-2	0.010 / -	126	o-Toluidine	95-53-4/ 202-429-0	0.010 / -
127	Pentacosafuorotridecanoic acid	72629-94-8/ 276-745-2	0.010 / -	128	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7	0.001 / -
129	Propylene oxide	75-56-9/ 200-879-2	0.010 / -	130	Pyrochlore, antimony lead yellow*	8012-00-8/ 232-382-1	0.001 / -
131	Silicic acid, barium salt, lead-doped*	68784-75-8/ 272-271-5	0.001 / -	132	Silicic acid, lead salt*	11120-22-2/ 234-363-3	0.001 / -
133	Sulfurous acid, lead salt, dibasic*	62229-08-7/ 263-467-1	0.001 / -	134	Tetraethyllead*	78-00-2/ 201-075-4	0.001 / -
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9	0.001 / -	136	Tricosafuorododecanoic acid	307-55-1/ 206-203-2	0.010 / -
137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6	0.001 / -	138	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2	0.001 / -
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013							
139	4-Nonylphenol, branched and linear, ethoxylated*	-	0.010 / -	140	Ammoniumpentadecafluoro octanoate (APFO)	3825-26-1/ 223-320-4	0.010 / -
141	Cadmium	7440-43-9/ 231-152-8	0.001 / -	142	Cadmium oxide*	1306-19-0/ 215-146-2	0.001 / -
143	Di-n-pentyl phthalate*	131-18-0/ 205-017-9	0.010 / -	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9	0.010 / -
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013							
145	Cadmium sulphide*	1306-23-6/ 215-147-8	0.001 / -	146	Dihexyl phthalate	84-75-3/ 201-559-5	0.010 / -
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0/ 209-358-4	0.010 / -	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7/ 217-710-3	0.010 / -
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7/ 202-506-9	0.010 / -	150	Lead di(acetate)*	301-04-2/ 206-104-4	0.001 / -
151	Trixylyl phosphate	25155-23-1/ 246-677-8	0.010 / -				

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No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#	No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014							
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4/ 271-093-5	0.010 / -	153	Cadmium chloride*	10108-64-2/ 233-296-7	0.001 / 0.01▼
154	Sodium perborate; perboric acid, sodium salt*	- / 234-390-0; 239-172-9	0.001 / -	155	Sodium peroxometaborate*	7632-04-4/ 231-556-4	0.001 / -
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014							
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7 / 223-346-6	0.010 / -	157	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1 / 247-384-8	0.010 / -
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1 / 239-622-4	0.010 / -	159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	0.010 / -
160	Cadmium fluoride*	7790-79-6 / 232-222-0	0.001 / 0.01▼	161	Cadmium sulphate*	10124-36-4; 31119-53-6 / 233-331-6	0.001 / 0.01▼
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun15, 2015							
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	0.010 / -	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.010 / -
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2015,							
164	1,3-propanesultone	1120-71-4 / 214-317-9	0.010 / 0.01▼	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1 / 223-383-8	0.010 / -
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3 / 253-037-1	0.010 / -	167	Nitrobenzene	98-95-3 / 202-716-0	0.010 / -
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4 / 206-801-3	0.010 / -				

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No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%) [#]	No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%) [#]
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2016							
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8 / 200-028-5	0.010 / 0.01 [▼]				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 12, 2017							
170	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7 / 201-245-8	0.010 / -	171	4-Heptylphenol, branched and linear	-	0.010 / -
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2; 3830-45-3; 3108-42-7/ 206-400-3; -; 221-470-5	0.010 / -	173	p-(1,1-dimethylpropyl)phenol	80-46-6 / 201-280-9	0.010 / -
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 7, 2017							
174	Perfluorohexane-1-sulphonic acid and its salts	- / -	0.010 / -				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2018							
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"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	- / -	0.010 / -	176	Benz[a]anthracene	56-55-3 / 200-280-6	0.010 / -
177	Cadmium nitrate*	10325-94-7 / 233-710-6	0.001 / -	178	Cadmium carbonate*	513-78-0 / 208-168-9	0.001 / -
179	Cadmium hydroxide*	21041-95-2 / 244-168-5	0.001 / -	180	Chrysene	218-01-9 / 205-923-4	0.010 / -
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]	- / -	0.010 / -				

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No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#	No.	Substance Name	CAS No./ EC No.	RL(%) / SCL(%)#
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 27, 2018							
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (TMA)	552-30-7 / 209-008-0	0.010 / -	183	Benzo[ghi]perylene	191-24-2 / 205-883-8	0.010 / -
184	Decamethylcyclopentasiloxane (D5)	541-02-6 / 208-764-9	0.010 / -	185	Dicyclohexyl phthalate (DCHP)	84-61-7 / 201-545-9	0.010 / -
186	Disodium octaborate*	12008-41-2 / 234-541-0	0.001 / -	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6 / 208-762-8	0.010 / -
188	Ethylenediamine (EDA)	107-15-3 / 203-468-6	0.010 / -	189	Lead	7439-92-1 / 231-100-4	0.001 / -
190	Octamethylcyclotetrasiloxane (D4)	556-67-2 / 209-136-7	0.010 / -	191	Terphenyl, hydrogenated	61788-32-7 / 262-967-7	0.010 / -
Candidate List of Substances of Very High Concern (SVHC) for authorization published on January 15, 2019							
192	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6/ 401-720-1	0.010 / -	193	Benzo[k]fluoranthene	207-08-9/ 205-916-6	0.010 / -
194	Fluoranthene	206-44-0; 93951-69-0/ 205-912-4	0.010 / -	195	Phenanthrene	85-01-8/ 201-581-5	0.010 / -
196	Pyrene	129-00-0/ 204-927-3	0.010 / -	197	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1] heptan-2-one (3-benzylidene camphor)	15087-24-8/ 239-139-9	0.010 / -
Candidate List of Substances of Very High Concern (SVHC) for authorization published on July 16, 2019							
198	2,3,3,3-Tetrafluoro-2- (heptafluoropropoxy)propionic acid, its salts and its acyl halides [covering any of their individual isomers and combinations thereof]	-	0.010 / -	199	2-Methoxyethyl acetate	110-49-6 / 203-772-9	0.010 / -
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.010 / -	201	4-tert-butylphenol	98-54-4 / 202-679-0	0.010 / -
Consultation List of Substances of Very High Concern (SVHC) for authorization published on Sep 3, 2019							
202	2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	119313-12-1 / 404-360-3	0.010 / -	203	2-methyl-1-(4-methylthiophenyl)- 2-morpholinopropan-1-one	71868-10-5 / 400-600-6	0.010 / -
204	Diisohexyl phthalate	71850-09-4 / 276-090-2	0.010 / -	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.010 / -

Notes :

- 1 RL = Reporting Limit. All RL are based on homogenous material
- 2 # SCL = Specific Concentration Limit. All SCL are set out in Regulation (EC) No 1272/2008 and its amendments. Specific concentration limits and generic concentration limits are limits assigned to a substance indicating a threshold at or above which the presence of that substance in another substance or in a mixture as an identified impurity, additive or individual constituent leads to the classification of the substance or mixture as hazardous. The SVHCs with SCL values <0.1% are specified in the test result tables.

* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.001% is evaluated for element (i.e. aluminum, antimony, arsenic, barium, boron, cadmium, calcium, chromium, chromium (VI), cobalt, lead, potassium, silicon, sodium, strontium, titanium, zirconium and zinc respectively), except molybdenum RL = 0.0001%.

▼ Regulation (EC) No 1272/2008 Classification, Labelling and Packaging of Substances and Mixtures, and its amendments.

* Client has the obligation to comply with the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006, unless the use has been exempted from Authorization. Article 56(6) of Regulation (EC) No. 1907/2006 specified the concentration limit requirement of Authorization of SVHC in mixture.

The ECHA SVHC authorization list is available at

<https://echa.europa.eu/authorisation-list>

This list is under evaluation by ECHA and may subject to change in the future.