



Test Report

Report No. A2230311822101001

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Company Name NANTONG HORNBY ELECTRONIC CO.,LTD./SMARTENGRAND LTD.

shown on Report

Address NO.8,XING YUAN ROAD,INDUSTRY PARK RUCHENG TOWN,RUGAO,
JIANGS/NO.168,SEC.2,ZHONGZHENG ROAD,SANXIA DISTRICT,NEW TAIPEI CITY,
TAIWAN,CHINA

Sample Received Date Jun. 27, 2023

Testing Period Jun. 27, 2023 to Jul. 7, 2023

Test Requested

- 1.As specified by client, to screen the 235 substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).
- 2.As specified by client, to screen the 1 substance published on June 1st 2021 submitted by EU Member States to ECHA for intention for identification of substance of very high concern (SVHC) under Regulation(EC) No1907/2006 of REACH in the submitted sample(s).
3. As specified by client, to screen the 11 potential intentional substances for identification of SVHC in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Summary

- 1.According to the analytical results, concentration of Lead is more than 0.1%(w/w) in the submitted sample(s).
- 2.According to the analytical results, concentration of 1substance for intention for identification of SVHC is less than 0.1%(w/w) in the submitted sample(s).
3. According to the analytical results, concentrations of 11 potential intentional substances for identification of SVHC are all less than 0.1% (w/w) in the submitted sample(s).

Approved by

Date

Jul. 7, 2023

Chen kaimin
Lab Manager

No. R295821653

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No.1351, Wanfang Road, Minhang District, Shanghai, China



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The following sample(s)and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name	DIODE & BRIDGE RECTIFIERS & MOSFET & TRIAC & SCR
Used for	DIODE & BRIDGE RECTIFIERS(R-1, A-405(H), DO-41, DO-15, R-3, DO-201AD, R-6, R-7, MT09E, MT09ES, FT, JA005,GBP, GBL, GBU, GBJ, KBL, KBP, KBU, KBJ, JA, JB, 2S, D3K, TSB-5, S25VB10, SKBPC, 2CL, CL, MD-M, MD-S, MD-F, DB-1, DB-S, DF, DF-S, LBF, ABS, MSBS, YBS, YBSL, SBS, SBSL, LDF, MBF(S/T1/T2), UMB-F, MSBL, TTF, WOM/RC-2, MKBPC, MKBPC-W, KBPC-1, KBPC-6, KBPC-8, KBPC, KBPC-W, MP, MP8, MBR, MBR-W, BR, BR-W, BR-L, BR-6, BR-8, RA/RAS, CXA, TO-220AC, TO-220AB, ITO-220AC, ITO-220AB, TO-3P, TO-247(A/AD/S), SMA-X, DO-214AC/SMA, SMA-F, SMA-L, SMA-S, SMA-HE, SMA-T, DO-214AA/SMB, SMB-F, SMB-S, SMB-L, DO-214AB/SMC, SMC-F, SMC-T3, SMC-T4, SMC-HE, DO-218(AB) , MINI-MELF, MELF, TO-92, TO-126, TO-252(A), TO252-4L, TO-251, TO-262, D-PAK, TO-263, D2PAK, SOD-123(FL/T/S/H1/HT/HE), 1206(S), SOD-323(FL/T/HE), 0805, SOD-523(FL), 0603, SOD-723(FL), SOD-923(FL), SOD-882, 0402, 0201, SOT-23(-3/-3L/-3S/-5/-6/-6L), SOT-26, SOT-343, SOT-353, SOT-553, SOT-363, SOT-563, SOT-223, SOT-323(F), SOT-523(F), SOT-723(F), SOT-883, DFN1006-3L, 2928-8L, CP, SOT-143, TO-277(A), WBFBP, DFN1006-2, DFN1006-3, DFN0603, DSON10, DFN2510(-10L), DFN2010, DFN1608, DFN1610, DFN1308, DFN3810(-9L), DFN5515(-18L), DFN1515-6L, DFN1515-6L, DFN2020-6L, DFN1610-6L, DFN1713-8L, DFN2010-8L, TO-89, SOP-8, MSOP-8, TSOP-6, TSSOP-8, MSOP-10, DFN2626-10L, DFN3020-10L, DFN4120-10L, DFN3316-16, LDFN4016-16L, PPAK2X3, PPAK3X3, DFN2X2-3L, DFN3X3(-8L), DFN2X2-6, DFN2X3-6, DFN2X3-8, PPAK5X6, DFN5X6-8L)

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Test Result(s) 1

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit (%)
					001	
VI	69	Lead diazide, Lead azide*	13424-46-9	236-542-1	N.D.* ¹	0.01
VI	70	Lead styphnate*	15245-44-0	239-290-0	N.D.* ¹	0.01
VI	71	Lead dipicrate*	6477-64-1	229-335-2	N.D.* ¹	0.01
VII	76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	N.D.* ¹	0.01
VIII	103	Pentaleadtetraoxide sulphate*	12065-90-6	235-067-7	N.D.* ¹	0.01
VIII	106	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	N.D.* ¹	0.01
VIII	107	Lead dinitrate*	10099-74-8	233-245-9	N.D.* ¹	0.01
VIII	108	Tetralead trioxide sulphate*	12202-17-4	235-380-9	N.D.* ¹	0.01
VIII	109	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	N.D.* ¹	0.01
VIII	112	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	N.D.* ¹	0.01
VIII	116	Tetraethyllead*	78-00-2	201-075-4	N.D.* ¹	0.01
VIII	117	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	N.D.* ¹	0.01
VIII	119	Lead cyanamidate*	20837-86-9	244-073-9	N.D.* ¹	0.01
VIII	130	Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	N.D.* ¹	0.01
VIII	131	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	N.D.* ¹	0.01
VIII	132	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	N.D.* ¹	0.01
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	N.D.* ¹	0.01
VIII	135	Lead oxide sulfate*	12036-76-9	234-853-7	N.D.* ¹	0.01
VIII	136	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	N.D.* ¹	0.01
VIII	137	Silicic acid, lead salt*	11120-22-2	234-363-3	N.D.* ¹	0.01
X	150	Lead di(acetate)*	301-04-2	206-104-4	N.D.* ¹	0.01
XIX	185	Lead	7439-92-1	231-100-4	0.730	0.01
-	-	Other tested SVHC (See the candidate list)	-	-	N.D.	-

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Test Result(s) 2

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit (%)
					001	
-	-	All tested intention for identification of SVHC(See the list of intention for identification of SVHC(Published on June 1 st 2021))	-	-	N.D.	-

Test Result(s) 3

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit (%)
					001	
-	-	All tested potential intentional substances for identification of SVHC (See the substance list)	-	-	N.D.	-

Test Method:

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016 for sample pretreatment.

Analyzed by ICP-OES, UV-Vis, PLM, SEM, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID and LC-MS-MS.

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Mixed test, electronic components

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Remark:

1. The table of tested result(s) only shows detected SVHC/intention for identification of SVHC/potential intentional substances for identification of SVHC, and SVHC/intention for identification of SVHC/ potential intentional substances for identification of SVHC that below Report Limit are not reported. Please refer to the Candidate List of SVHC/ intention for identification of SVHC/potential intentional substances for identification of SVHC on next pages.
2. w/w = weight by weight; 0.1% = 1000 mg/kg = 1000 ppm
3. N.D. = Not Detected (<report limit)
4. *: Concentration value of the substance by the conversion from the test results of certain elements. Concentration value of Bis(tributyltin)oxide(TBTO), Dibutyltin dichloride (DBTC), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), 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),Dibutylbis(pentane-2,4-dionato-O,O')tin,[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] by the conversion from the test results of certain compounds(Tributyl Tins(TBT), Dibutyl Tins(DBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).
5. **: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
6. ***: C.I.: Colour Index
7. ****: Light fractions from distillation
8. *****: Concentration value of Disodiumtetraborate,anhydrous and Tetraboron disodium heptaoxide,hydrate is evaluated by Disodiumtetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.
9. ▲: Concentration value of Formaldehyde, oligomeric reaction products with aniline by the conversion from the test results of certain compounds(2,4-Diaminodiphenylmethane, 4,4'-Diaminodiphenylmethane, 2,2-Diaminodiphenylmethane).
10. ①: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances. When the content of the representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking MSDS or requesting from suppliers.
11. ②: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
12. *¹: The sample contains Lead. According to the declaration of the client, it is present as the form Lead elementary substance.
13. As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

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Candidate List of SVHC

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
I	1	Anthracene	120-12-7	204-371-1	0.005
I	2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	0.005
I	3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	0.005
I	4	Cobalt dichloride*	7646-79-9	231-589-4	0.01
I	5	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.01
I	6	Diarsenic trioxide*	1327-53-3	215-481-4	0.01
I	7	Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	0.01
I	8	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	201-329-4	0.005
I	9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	204-211-0	0.005
I	10	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 221-695-9	0.005
I	11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCPs)	85535-84-8	287-476-5	0.01
I	12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	0.005
I	13	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01
I	14	Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	0.005
I	15	Triethyl arsenate*	15606-95-8	427-700-2	0.01
II	16	^① Anthracene oil	90640-80-5	292-602-7	0.05
II	17	^① Anthracene oil, anthracene paste, distn. lights ****	91995-17-4	295-278-5	0.05
II	18	^① Anthracene oil, anthracene paste,anthracene fraction	91995-15-2	295-275-9	0.05
II	19	^① Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05
II	20	^① Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05
II	21	^① Pitch, coal tar, high-temp.	65996-93-2	266-028-2	0.05
II	22	Acrylamide	79-06-1	201-173-7	0.01
II	23	2,4-dinitrotoluene	121-14-2	204-450-0	0.01
II	24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005
II	25	^② Lead chromate	7758-97-6	231-846-0	0.05
II	26	^② Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	0.05
II	27	^② Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.05
II	28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.01
III	29	Trichloroethylene	79-01-6	201-167-4	0.005
III	30	Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	0.01
III	31	^② Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
III	32	^② Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	0.01
III	33	Sodium chromate*	7775-11-3	231-889-5	0.01
III	34	Potassium chromate*	7789-00-6	232-140-5	0.01
III	35	Ammonium dichromate*	7789-09-5	232-143-1	0.01
III	36	Potassium dichromate*	7778-50-9	231-906-6	0.01

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
IV	37	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01
IV	38	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01
IV	39	Cobalt(II) carbonate*	513-79-1	208-169-4	0.01
IV	40	Cobalt(II) diacetate*	71-48-7	200-755-8	0.01
IV	41	2-methoxyethanol	109-86-4	203-713-7	0.005
IV	42	2-ethoxyethanol	110-80-5	203-804-1	0.005
IV	43	Chromium trioxide*	1333-82-0	215-607-8	0.01
IV	44	^① Acids 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	0.01
V	45	2-ethoxyethyl acetate	111-15-9	203-839-2	0.01
V	46	Strontium chromate*	7789-06-2	232-142-6	0.01
V	47	^① 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.01
V	48	Hydrazine	7803-57-8 302-01-2	206-114-9	0.01
V	49	1-methyl-2-pyrrolidone (NMP)	872-50-4	212-828-1	0.01
V	50	1,2,3-trichloropropane	96-18-4	202-486-1	0.01
V	51	^① 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.01
VI	52	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.01
VI	53	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	234-329-8	0.01
VI	54	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01
VI	55	^② Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	0.05
VI	56	^② Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	0.05
VI	57	^① Formaldehyde, oligomeric reaction products with aniline [▲]	25214-70-4	500-036-1	0.01
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005
VI	59	2-Methoxyaniline(o-Anisidine)	90-04-0	201-963-1	0.005
VI	60	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	0.005
VI	61	1,2-dichloroethane	107-06-2	203-458-1	0.005
VI	62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005
VI	63	Arsenic acid*	7778-39-4	231-901-9	0.01
VI	64	Calcium arsenate*	7778-44-1	231-904-5	0.01
VI	65	Trileaddiarsenate*	3687-31-8	222-979-5	0.01
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005
VI	67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005
VI	68	Phenolphthalein	77-09-8	201-004-7	0.005
VI	69	Lead diazide, Lead azide*	13424-46-9	236-542-1	0.01
VI	70	Lead styphnate*	15245-44-0	239-290-0	0.01
VI	71	Lead dipicrate*	6477-64-1	229-335-2	0.01
VII	72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.01
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01
VII	74	Diboron trioxide*	1303-86-2	215-125-8	0.01
VII	75	Formamide	75-12-7	200-842-0	0.01

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VII	76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.01
VII	77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	0.01
VII	78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6	423-400-0	0.01
VII	79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01
VII	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.01
VII	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	0.01
VII	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	0.01
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	229-851-8	0.01
VII	84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.01
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	0.05
VIII	86	^① 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
VIII	87	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))(ADCA)	123-77-3	204-650-8	0.05
VIII	88	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	0.05
VIII	89	Henicosaflluoroundecanoic acid	2058-94-8	218-165-4	0.05
VIII	90	Pentacosaflluorotridecanoic acid	72629-94-8	276-745-2	0.05
VIII	91	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	201-604-9 236-086-3 238-009-9	0.05
VIII	92	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic 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
VIII	93	Heptacosaflluorotetradecanoic acid	376-06-7	206-803-4	0.05
VIII	94	Diisopentylphthalate(DIPP)	605-50-5	210-088-4	0.05
VIII	95	^① 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05
VIII	96	n-pentyl-isopentylphthalate	776297-69-9	933-378-9	0.05
VIII	97	Methoxyacetic acid	625-45-6	210-894-6	0.05

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VIII	98	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05
VIII	99	1,2-diethoxyethane	629-14-1	211-076-1	0.05
VIII	100	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.05
VIII	101	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	0.05
VIII	102	N-methylacetamide	79-16-3	201-182-6	0.05
VIII	103	Pentaleadtetraoxide sulphate*	12065-90-6	235-067-7	0.01
VIII	104	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05
VIII	105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.05
VIII	106	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01
VIII	107	Lead dinitrate*	10099-74-8	233-245-9	0.01
VIII	108	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01
VIII	109	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	0.01
VIII	110	Lead titanium trioxide*	12060-00-3	235-038-9	0.01
VIII	111	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05
VIII	112	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01
VIII	113	Dimethyl sulphate	77-78-1	201-058-1	0.05
VIII	114	Furan	110-00-9	203-727-3	0.05
VIII	115	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01
VIII	116	Tetraethyllead*	78-00-2	201-075-4	0.01
VIII	117	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.01
VIII	118	Diethyl sulphate	64-67-5	200-589-6	0.05
VIII	119	Lead cyanamidate*	20837-86-9	244-073-9	0.01
VIII	120	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.01
VIII	121	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01
VIII	122	<i>o</i> -Toluidine	95-53-4	202-429-0	0.05
VIII	123	<i>o</i> -aminoazotoluene	97-56-3	202-591-2	0.05
VIII	124	4-aminoazobenzene	60-09-3	200-453-6	0.05
VIII	125	6-methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine)	120-71-8	204-419-1	0.05
VIII	126	Dibutyltin dichloride (DBTC)*	683-18-1	211-670-0	0.05
VIII	127	Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.01
VIII	128	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.05
VIII	129	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.05
VIII	130	Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	0.01
VIII	131	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01
VIII	132	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.01
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01
VIII	134	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05
VIII	135	Lead oxide sulfate*	12036-76-9	234-853-7	0.01
VIII	136	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01
VIII	137	Silicic acid, lead salt*	11120-22-2	234-363-3	0.01
VIII	138	N,N-dimethylformamide	68-12-2	200-679-5	0.05
IX	139	Cadmium	7440-43-9	231-152-8	0.01
IX	140	Cadmium oxide*	1306-19-0	215-146-2	0.01
IX	141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.01

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
IX	142	^① 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
IX	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.01
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.01
X	145	^① Trixylyl phosphate	25155-23-1	246-677-8	0.01
X	146	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	0.01
X	147	Dihexyl phthalate	84-75-3	201-559-5	0.01
X	148	Cadmium sulphide*	1306-23-6	215-147-8	0.01
X	149	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	0.01
X	150	Lead di(acetate)*	301-04-2	206-104-4	0.01
X	151	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.01
XI	152	^① 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.01
XI	153	Cadmium chloride*	10108-64-2	233-296-7	0.01
XI	154	^② Sodium perborate; perboric acid, sodium salt*****	15120-21-5 11138-47-9	239-172-9 234-390-0	0.01
XI	155	^② Sodium peroxometaborate*****	7632-04-4	231-556-4	0.01
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.01
XII	157	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.01
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*	15571-58-1	239-622-4	0.05
XII	159	Cadmium fluoride*	7790-79-6	232-222-0	0.01
XII	160	Cadmium sulphate*	10124-36-4 31119-53-6	233-331-6	0.01
XII	161	^① 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)*	-	-	0.05
XIII	162	^① 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

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XIII	163	^① 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]	-	-	0.05
XIV	164	Nitrobenzene	98-95-3	202-716-0	0.01
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.01
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.01
XIV	167	1,3-propanesultone	1120-71-4	214-317-9	0.01
XIV	168	Perfluorononan-1-ic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3 - -	0.01
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.01
XVI	170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	0.01
XVI	171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	221-470-5 206-400-3 -	0.01
XVI	172	<i>p</i> -(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.01
XVI	173	^① 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]	-	-	0.05
XVII	174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.0005
XVIII	175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	-	-	0.01
XVIII	176	Benzo[a]anthracene	56-55-3	200-280-6	0.01
XVIII	177	Cadmium nitrate*	10325-94-7	233-710-6	0.01
XVIII	178	Cadmium carbonate*	513-78-0	208-168-9	0.01
XVIII	179	Cadmium hydroxide*	21041-95-2	244-168-5	0.01
XVIII	180	Chrysene	218-01-9	205-923-4	0.01
XVIII	181	^① Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)]	-	-	0.05
XIX	182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01
XIX	183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01
XIX	184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01
XIX	185	Lead	7439-92-1	231-100-4	0.01
XIX	186	Disodium octaborate*	12008-41-2	234-541-0	0.01
XIX	187	Benzo[ghi]perylene	191-24-2	205-883-8	0.01
XIX	188	^① Terphenyl, hydrogenated	61788-32-7	262-967-7	0.01
XIX	189	Ethylenediamine (EDA)	107-15-3	203-468-6	0.01

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XIX	190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	0.01
XIX	191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.01
XX	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.01
XX	193	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01
XX	194	Fluoranthene	206-44-0	205-912-4	0.01
XX	195	Phenanthrene	85-01-8	201-581-5	0.01
XX	196	Pyrene	129-00-0	204-927-3	0.01
XX	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	0.01
XXI	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)	-	-	0.01
XXI	199	2-methoxyethyl acetate	110-49-6	203-772-9	0.01
XXI	200	4-tert-butylphenol	98-54-4	202-679-0	0.01
XXI	201	^① Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.01
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.01
XXII	204	Diisohexyl phthalate	71850-09-4	276-090-2	0.01
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.01
XXIII	206	1-vinylimidazole	1072-63-5	214-012-0	0.01
XXIII	207	2-methylimidazole	693-98-1	211-765-7	0.01
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.01
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin *	22673-19-4	245-152-0	0.05
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.01
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety *	-	-	0.05
XXV	212	1,4-dioxane	123-91-1	204-661-8	0.01
XXV	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	0.01
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	0.01
XXV	215	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	201-025-1	0.01
XXV	216	Glutaral	111-30-8	203-856-5	0.01
XXV	217	^① 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]	-	-	0.01

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XXV	218	Orthoboric acid, sodium salt *	13840-56-7	237-560-2	0.01
XXV	219	^① 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)	-	-	0.01
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	-	0.01
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1	0.01
XXVI	222	S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9	0.01
XXVI	223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	0.01
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.01
XXVIII	225	1,1'-[ethane-1,2-diylbisoxo]bis [2,4,6-tribromobenzene]	37853-59-1	253-692-3	0.01
XXVIII	226	2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol (TBBPA)	79-94-7	201-236-9	0.01
XXVIII	227	4,4'-sulphonyldiphenol (BPS)	80-09-1	201-250-5	0.01
XXVIII	228	Barium diborontetraoxide*	13701-59-2	237-222-4	0.01
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	0.01
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	0.01
XXVIII	231	Melamine	108-78-1	203-615-4	0.05
XXVIII	232	Perfluoroheptanoic acid and its salts	-	-	0.01
XXVIII	233	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	473-390-7	0.05
XXIX	234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	0.01
XXIX	235	Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	0.01

List of intention for identification of SVHC (Published on June 1st 2021)

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
-	1	Resorcinol	108-46-3	203-585-2	0.01

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List of potential intentional substances for identification of SVHC

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
-	1	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	221-573-5	0.01
-	2	Bumetrizole (UV-326)	3896-11-5	223-445-4	0.01
-	3	Triphenyl phosphate	115-86-6	204-112-2	0.01
-	4	Octamethyltrisiloxane	107-51-7	203-497-4	0.01
-	5	Hexamethyldisiloxane	107-46-0	203-492-7	0.01
-	6	Dodecamethylpentasiloxane	141-63-9	205-492-2	0.01
-	7	Decamethyltetrasiloxane	141-62-8	205-491-7	0.01
-	8	1,1,1,3,5,5,5-heptamethyltrisiloxane	1873-88-7	217-496-1	0.01
-	9	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	241-867-7	0.01
-	10	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0	0.01
-	11	2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3	211-989-5	0.01

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Appendix:

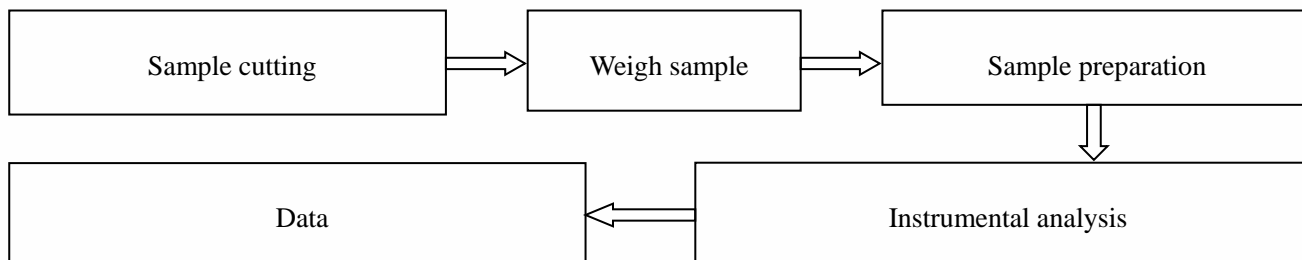
1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
 - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
 - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

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Test Process

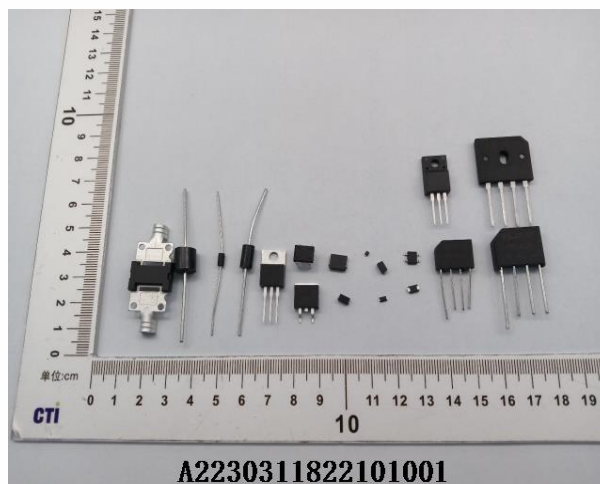


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Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
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*** End of Report ***