

Test Report No.: 68.431.21.02766.01B

Dated: 2021-06-18



Applicant : Hefei Aichuang Microelectronics Technology Co., Ltd
East third floor, A2, industrial investment Liheng
industrial Plaza, Feixi County, Hefei City, Anhui Province

Sample Description : IC

Style No. / Name / Design No. : (SOT23, SOT23-3L/5L/6L, SOT89-3L/5L, TO92,
SOP8, DIP8, DFN6, TSSOP8, MSOP8, SOT353,
SOT223, SOP24, QFN, TO-251, TO-252, TO-220,
TO-126, TO263,FBP 等)
其他的: SOP4/7/14/16, DIP7/14, TSSOP24,
SSOP10/16/20/24, TO277

Test Sample Receipt Date, Location : 2021-05-20, Shenzhen

Test Period, Location : From 2021-05-20 to 2021-05-25, Shenzhen

Test Result(s) : Refer to Section 3



Laboratory:

TÜV SÜD Certification and Testing (China) Co.,
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Purpose Of Examination / Conclusion:

No.	Test Item(s)
1.	Analysis of the 211 substances of very high concern (SVHC) Candidate List for authorization, concerning Regulation (EC) No. 1907/2006 as published on the European Chemicals Agency (ECHA) website updated on January 19, 2021.
	Conclusion: According to the specified scope and analytical techniques, the concentration of each of the 211 SVHC is <0.1% (w/w) in the submitted sample(s)

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

Reviewed by:

Cara Xiang
Senior Project Coordinator

Ken Chen
Project Manager

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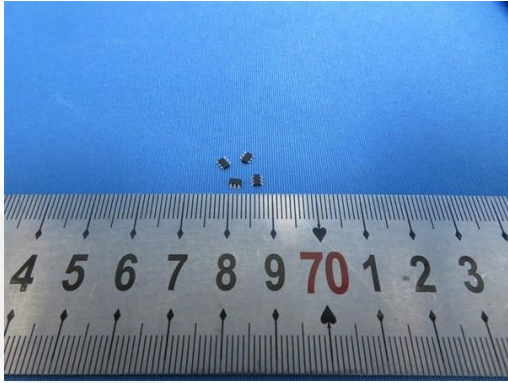
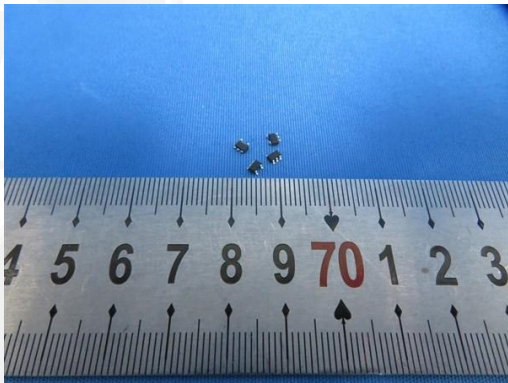
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1. Description of the Test Sample:

Sample Description	IC
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2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Black material (SOT23-6)	
T2	002	Black material (SOT23-5)	
T3	003	Black material (SOT89-3)	

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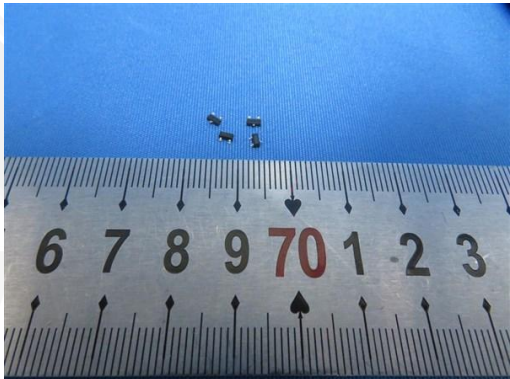
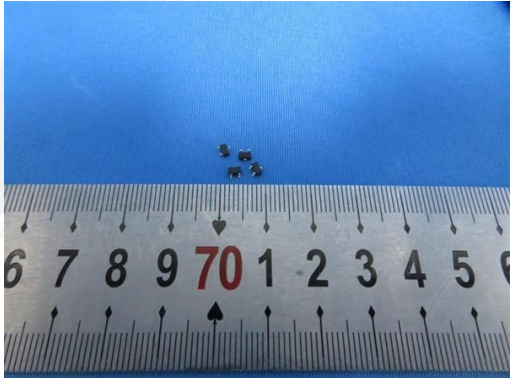
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T. No.	Sample No.	Colour and Description	Photograph
T4	004	Black material (SOP8)	
T5	005	Black material (SOT23)	
T6	006	Black material (SOT23-3)	

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3. Test Results

3.1 Analysis of the 211 Substances of Very High Concern (SVHC)

Candidate List for authorization, concerning Regulation (EC) No. 1907/2006 as published on the European Chemicals Agency (ECHA) website updated on January 19, 2021.

Test method: Screening test. For organic substance(s) analysis, extracted by organic solvent, followed by using Liquid Chromatography with Tandem Mass Spectrometry Detection (LC-MS/MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS and High Performance Liquid Chromatography-Diode Array Detection (HPLC-DAD).

For heavy metal(s) analysis, digested by acid, followed by using Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), Atomic Absorption Spectrometry (AAS) and UV-Vis Spectrophotometer.

[Reporting limit: 0.01%]

Parameters	Result [% by Weight]	Limit
	Sample 001+002+003+004+005+006	
Two Hundred and eleven substances of very high concern ³	< 0.01	<0.1% (w/w)

- Note:
1. "<" denotes less than
 2. "%" denotes percentage
 3. Candidate List for authorization, concerning Regulation (EC) No 1907/2006 as published on the European Chemicals Agency (ECHA) website updated on January 19, 2021.

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No.	Substance Name	CAS No.	No.	Substance Name	CAS No.
1	Anthracene	120-12-7	28	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2
2	4,4'- Diaminodiphenylmethane	101-77-9	29	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8
3	Dibutyl phthalate (DBP)	84-74-2	30	Acrylamide	79-06-1
4	Cobalt dichloride *	7646-79-9	31	Trichloroethylene	79-01-6
5	Diarsenic pentaoxide*	1303-28-2	32	Boric Acid*	10043-35-3 11113-50-1
6	Diarsenic trioxide *	1327-53-3	33	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3
7	Sodium dichromate *	7789-12-0 10588-01-9	34	Tetraboron disodium heptaoxide, hydrate*	12267-73-1
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	35	Sodium chromate*	7775-11-3
9	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	36	Potassium chromate*	7789-00-6
10	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α – HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	37	Ammonium dichromate*	7789-09-5
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	38	Potassium dichromate*	7778-50-9
12	Bis(tributyltin)oxide,(TBTO) [#]	56-35-9	39	Cobalt(II) sulphate *	10124-43-3
13	Lead hydrogen arsenate *	7784-40-9	40	Cobalt(II) dinitrate *	10141-05-6
14	Benzyl butyl phthalate (BBP)	85-68-7	41	Cobalt(II) carbonate*	513-79-1
15	Triethyl arsenate *	15606-95-8	42	Cobalt(II) diacetate*	71-48-7
16	Anthracene oil [§]	90640-80-5	43	2-Methoxyethanol	109-86-4
17	Anthracene oil, anthracene paste, distn. lights [§]	91995-17-4	44	2-Ethoxyethanol	110-80-5
18	Anthracene oil, anthracene paste, anthracene fraction [§]	91995-15-2	45	Chromium trioxide*	1333-82-0
19	Anthracene oil, anthracene-low [§]	90640-82-7	46	Acids generated from chromium trioxide and their oligomers: a. Chromic acid* b. Dichromic acid * c. Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2
20	Anthracene oil, anthracene paste [§]	90640-81-6	47	2-Ethoxyethyl acetate (2-EEA)	111-15-9
21	Pitch, coal tar, high temp. [§]	65996-93-2	48	Strontium chromate*	7789-06-2
22	Aluminosilicate Refractory Ceramic Fibres*	-	49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) [§]	68515-42-4
23	Zirconia Aluminosilicate, Refractory Ceramic Fibres*	-	50	Hydrazine	7803-57-8, 302-01-2
24	2,4-Dinitrotoluene	121-14-2	51	1-Methyl-2-pyrrolidone	872-50-4
25	Diisobutyl phthalate	84-69-5	52	1,2,3-Trichloropropane	96-18-4
26	Lead chromate*	7758-97-6	53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6
27	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8			
- '*' denotes concentration of the substance cannot be determined directly but be converted from the concentration of specific heavy metal(s). - '#', denotes the Bis(tributyltin)oxide (TBTO) is tested and calculated in term of Tributyl tin. - '§' The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological material), the test results are calculated based on the main constituents.					

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No.	Substance Name	CAS No.	No.	Substance Name	CAS No.
54	1,2-Dichloroethane	107-06-2	76	Lead(II) bis(methanesulfonate)*	17570-76-2
55	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC)	2451-62-9
56	2-Methoxyaniline, o-Anisidine	90-04-0	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
57	4-(1,1,3,3-Tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
58	Arsenic acid*	7778-39-4	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
59	Bis(2-methoxyethyl) ether	111-96-6	81	[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
60	Bis(2-methoxyethyl) phthalate	117-82-8	82	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [#]	548-62-9
61	Calcium arsenate*	7778-44-1	83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [#]	561-41-1
62	Dichromium tris(chromate)*	24613-89-6	84	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [#]	6786-83-0
63	Formaldehyde, oligomeric reaction products with aniline (technical MDA) [§]	25214-70-4	85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5
64	Lead diazide*	13424-46-9	86	Pentacosafuorotridecanoic acid	72629-94-8
65	Lead dipicrate*	6477-64-1	87	Tricosafuorododecanoic acid	307-55-1
66	Lead styphnate*	15245-44-0	88	Henicosafuoroundecanoic acid	2058-94-8
67	N,N-dimethylacetamide (DMAC)	127-19-5	89	Heptacosafuorotetradecanoic acid	376-06-7
68	Pentazinc chromate octahydroxide*	49663-84-5	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [§]	-
69	Phenolphthalein	77-09-8	91	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 [§]	-
70	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
71	Trilead diarsenate*	3687-31-8	93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	94	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
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	95	Methoxy acetic acid	625-45-6
74	Diboron trioxide*	1303-86-2	96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
75	Formamide	75-12-7	97	Diisopentylphthalate (DIPP)	605-50-5
- [*] denotes concentration of the substance cannot be determined directly but be converted from the concentration of specific heavy metal(s). - [§] The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological material), the test results are calculated based on the main constituents. - [#] denotes the substance does only fulfil the criteria of REACH Art. 57 (a) if it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) in a concentration ≥ 0.1% (weight / weight).					

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No.	Substance Name	CAS No.	No.	Substance Name	CAS No.
98	N-pentyl-isopentylphthalate	-	131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3
99	1,2-Diethoxyethane	629-14-1	132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	133	6-methoxy-m-toluidine (p-cresidine)	120-71-8
101	Dibutyltin dichloride (DBT)	683-18-1	134	Biphenyl-4-ylamine	92-67-1
102	Acetic acid, lead salt, basic*	51404-69-4	135	o-aminoazotoluene	97-56-3
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)*	1319-46-6	136	o-Toluidine; 2-Aminotoluene	95-53-4
104	Lead oxide sulfate (basic lead sulfate)*	12036-76-9	137	N-methylacetamide	79-16-3
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*	69011-06-9	138	1-bromopropane; n-propyl bromide	106-94-5
106	Dioxobis(stearato)trilead*	12578-12-0	139	Cadmium	7440-43-9
107	Fatty acids, C16-18, lead salts*	91031-62-8	140	Cadmium oxide*	1306-19-0
108	Lead bis(tetrafluoroborate)*	13814-96-5	141	Dipentyl phthalate (DPP)	131-18-0
109	Lead cyanamate*	20837-86-9	142	4-Nonylphenol, branched and linear, ethoxylated [§]	-
110	Lead dinitrate*	10099-74-8	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
111	Lead oxide (lead monoxide)*	1317-36-8	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1
112	Lead tetroxide (orange lead)*	1314-41-6	145	Cadmium sulphide*	1306-23-6
113	Lead titanium trioxide*	12060-00-3	146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
114	Lead Titanium Zirconium Oxide*	12626-81-2	147	Disodium 4-amino-3-[[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] - 5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7
115	Pentalead tetraoxide sulphate*	12065-90-6	148	Dihexyl phthalate	84-75-3
116	Pyrochlore, antimony lead yellow*	8012-00-8	149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
117	Silicic acid, barium salt, lead-doped*	68784-75-8	150	Lead di(acetate)*	301-04-2
118	Silicic acid, lead salt*	11120-22-2	151	Trixylyl phosphate	25155-23-1
119	Sulfurous acid, lead salt, dibasic*	62229-08-7	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
120	Tetraethyllead*	78-00-2	153	Cadmium chloride*	10108-64-2
121	Tetralead trioxide sulphate*	12202-17-4	154	Sodium perborate; perboric acid, sodium salt*	-
122	Trilead dioxide phosphonate*	12141-20-7	155	Sodium peroxometaborate*	7632-04-4
123	Furan	110-00-9	156	Cadmium fluoride*	7790-79-6
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	157	Cadmium sulphate*	10124-36-4; 31119-53-6
125	Diethyl sulphate	64-67-5	158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
126	Dimethyl sulphate	77-78-1	159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2			
128	Dinoseb	88-85-7			
129	4,4'-methylenedi-o-toluidine	838-88-0			
130	4,4'-oxydianiline and its salts	101-80-4			
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No.	Substance Name	CAS No.	No.	Substance Name	CAS No.
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	179	Cadmium hydroxide*	21041-95-2
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)	-	180	Chrysene	218-01-9
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)	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	-
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]	-	182	Octamethylcyclotetrasiloxane (D4)	556-67-2
164	1,3-propanesultone	1120-71-4 (214-317-9)	183	Decamethylcyclopentasiloxane (D5)	541-02-6
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1 (223-383-8)	184	Dodecamethylcyclohexasiloxane (D6)	540-97-6
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3 (253-037-1)	185	Lead	7439-92-1
167	Nitrobenzene	98-95-3 (202-716-0)	186	Disodium octaborate*	12008-41-2
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorodecafluorononanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4 (206-801-3)	187	Benzo[ghi]perylene	191-24-2
169	Benzo[def]chrysene	50-32-8 (200-028-5)	188	Terphenyl hydrogenated	61788-32-7
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7 (201-245-8)	189	Ethylenediamine (EDA)	107-15-3
171	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2, 3830-45-3, 3108-42-7 (206-400-3, -, 221-470-5)	190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7
172	4-heptylphenol, branched and linear (4-HPbl)	-	191	Dicyclohexyl phthalate (DCHP)	84-61-7
173	4-tert-pentylphenol (PTAP)	80-46-6 (201-280-9)	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	193	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8
175	Dechlorane Plus(TM)	-	194	Benzo[k]fluoranthene	207-08-9
176	Benz[a]anthracene	56-55-3	195	Fluoranthene	206-44-0
177	Cadmium nitrate*	10325-94-7	196	Phenanthrene	85-01-8
178	Cadmium carbonate*	513-78-0	197	Pyrene	129-00-0
- "*" denotes concentration of the substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).					

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No.	Substance Name	CAS No.	No.	Substance Name	CAS No.
198	2-methoxyethyl acetate	110-49-6	-	-	-
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	-	-
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)	-	-	-	-
201	4-tert-butylphenol (PTBP)	98-54-4	-	-	-
202	Diisohexyl phthalate	71850-09-4	-	-	-
203	2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	119313-12-1	-	-	-
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	-	-	-
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	-	-
206	1-vinylimidazole	1072-63-5 (214-012-0)	-	-	-
207	2-methylimidazole	693-98-1 (211-765-7)	-	-	-
208	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8 (202-318-7)	-	-	-
209	Dibutylbis(pentane-2,4dionato-O,O')tin	22673-19-4 (245-152-0)	-	-	-
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8 (205-594-7)	-	-	-
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	-	-	-	-

-- END OF THE TEST REPORT --

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