Test Report

Applicant KUNSHAN ENSURE OPTIC ELECTRONICS TECHNOLOGY ,LTD.
Address KUNSHAN CITY WULIAN ROAD NO. 38

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

Sample Name	Ceramic core
Part No.	◎1.0 以下 PC
Item/Lot No.	BZSL120801-A013
Material	Zirconium oxide
Color	White
Sample Received Date	Sep.5,2012
Testing Period	Sep.5,2012 to Sep.11,2012

Test Requested As specified by client, to screen the 84 substances of very high concern(SVHC) under Regulation(EC) No 1907/2006 of REACH 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 According to the analytical results, concentrations of 84 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

Tested by Verna chen. Reviewed by Vivey Zhong

Approved by Joy Su Date Sep.11,2012

Joy Su
Senior Laboratory Manager

No. 83407418

Test Report

Test Method

No.	Substance Name(s)	Test Method and Equipment(s)	Substance Classification	Report Limit
1	Anthracene	Refer to US EPA 3550C:2007/ US EPA 8270D:2007, GC-MS	PBT	0.005%
2	4,4'- Diaminodiphenylmethane	Refer to US EPA 8270D:2007, GC-MS	Carcinogen, cat.2	0.005%
3	Dibutyl phthalate(DBP)	Refer to EN 14372:2004, GC-MS	Toxic for reproduction, cat.2	0.005%
4	Cobalt dichloride*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/BS EN14582:2007, ICP-OES/IC	Carcinogen, cat.2 Toxic for reproduction, cat.2	0.01%
5	Diarsenic pentaoxide*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Carcinogen, cat.1	0.01%
6	Diarsenic trioxide*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Carcinogen, cat.1	0.01%
7	Sodium dichromate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2	0.01%
8	Musk xylene	Refer to US EPA 3540C:1996, GC-MS	vPvB	0.005%
9	Bis(2-ethyl(hexyl)phthalate) (DEHP)	Refer to EN 14372:2004, GC-MS	Toxic for reproduction, cat.2	0.005%
10	Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996, GC-MS	PBT	0.005%
11	Short Chain Chlorinated Paraffins(SCCPs)	Refer to US EPA 3540C:1996, GC-MS	PBT; vPvB	0.01%
12	Bis(tributyltin)oxide (TBTO)*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/ISO 17353:2004, ICP-OES/GC-MS	PBT	0.005%
13	Lead hydrogen arsenate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Carcinogen, cat.1; Toxic for reproduction, cat.1	0.01%
14	Benzyl butyl phthalate(BBP)	Refer to EN 14372:2004, GC-MS	Toxic for reproduction, cat.2	0.005%
15	Triethyl arsenate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Carcinogen, cat.1	0.01%
16	①Anthracene oil	Refer to US EPA 3550C:2007, GC-MS	PBT	0.05%
17	①Anthracene oil, anthracene paste, distn. Lights ****	Refer to US EPA 3550C:2007, GC-MS	PBT	0.05%
18	①Anthracene oil, anthracene paste, anthracene fraction	Refer to US EPA 3550C:2007, GC-MS	PBT	0.05%
19	①Anthracene oil, anthracene-low	Refer to US EPA 3550C:2007, GC-MS	PBT	0.05%
20	①Anthracene oil, anthracene paste	Refer to US EPA 3550C:2007, GC-MS	PBT	0.05%

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No.	Substance Name(s)	Test Method and Equipment(s)	Substance Classification	Report Limit
21	①Coal tar pitch, high temperature	Refer to US EPA 3550C:2007, GC-MS	PBT; Carcinogen, cat.2	0.05%
22	Acrylamide	Refer to US EPA 3550C:2007, HPLC	Carcinogen, cat.2; Mutagen, cat.2	0.01%
23	2,4-Dinitrotoluene	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2	0.01%
24	Diisobutyl phthalate (DIBP)	Refer to EN 14372:2004, GC-MS	Toxic for reproduction, cat.2	0.005%
25	②Lead chromate	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Toxic for reproduction, cat.1	0.05%
26	②Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Toxic for reproduction, cat.1	0.05%
27	②Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Toxic for reproduction, cat.1	0.05%
28	Tris(2-chloroethyl)phosphate (TCEP)	Refer to US EPA 3550C:2007, GC-MS	Toxic for reproduction, cat.2	0.01%
29	Trichloroethylene	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2	0.005%
30	③Boric acid	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Toxic for reproduction, cat.2	0.01%
31	③Disodium tetraborate, anhydrous*****	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Toxic for reproduction, cat.2	0.01%
32	③Tetraboron disodium heptaoxide, hydrate*****	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Toxic for reproduction, cat.2	0.01%
33	Sodium chromate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Mutagenic cat.2; Toxic for reproduction, cat.2	0.01%
34	Potassium chromate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Mutagenic cat.2	0.01%
35	Ammonium dichromate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Mutagenic cat.2; Toxic for reproduction, cat.2	0.01%

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No.	Substance Name(s)	Test Method and Equipment(s)	Substance Classification	Report Limit
36	Potassium dichromate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Mutagenic cat.2; Toxic for reproduction, cat.2	0.01%
37	Cobalt(Ⅱ) sulphate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/in-house method, ICP-OES/IC	Toxic for reproduction, cat.2 Carcinogen, cat.2	0.01%
38	Cobalt(Ⅱ) dinitrate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/in-house method, ICP-OES/IC	Toxic for reproduction, cat.2 Carcinogen, cat.2	0.01%
39	Cobalt(Ⅱ) carbonate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/in-house method, ICP-OES/IC	Toxic for reproduction, cat.2 Carcinogen, cat.2	0.01%
40	Cobalt(Ⅱ) diacetate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/in-house method, ICP-OES/IC	Toxic for reproduction, cat.2 Carcinogen, cat.2	0.01%
41	2-Methoxyethanol	Refer to US EPA 3550C:2007, GC-MS	Toxic for reproduction, cat.2	0.005%
42	2-Ethoxyethanol	Refer to US EPA 3550C:2007, GC-MS	Toxic for reproduction, cat.2	0.005%
43	Chromium trioxide*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.1; Mutagenic cat.2	0.01%
44	Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2	0.01%
45	2-ethoxyethyl acetate	Refer to US EPA 3550C:2007, GC-MS	Toxic for reproduction, cat.2	0.01%
46	Strontium chromate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2	0.01%
47	①1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	Refer to EN14372:2004, GC-MS	Toxic for reproduction, cat.2	0.01%
48	Hydrazine	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2	0.01%

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No.	Substance Name(s)	Test Method and Equipment(s)	Substance Classification	Report Limit
49	1-methyl-2-pyrrolidone	Refer to US EPA 3550C:2007, GC-MS	Toxic for reproduction, cat.2	0.01%
50	1,2,3-trichloropropane	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2 Toxic for reproduction, cat.2	0.01%
51	①1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	Refer to EN14372:2004, GC-MS	Toxic for reproduction, cat.2	0.01%
52	Dichromium tris(chromate)*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2	0.01%
53	Potassium hydroxyoctaoxodizincatedichromate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.1	0.01%
54	Pentazinc chromate octahydroxide*	Refer to US EPA 3052:1996 or US EPA 3050B:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.1	0.01%
55	②Aluminosilicate Refractory Ceramic Fibres (RCF) **	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES/SEM-EDS	Carcinogen, cat.2	0.05%
56	②Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES/SEM-EDS	Carcinogen, cat.2	0.05%
57	①Formaldehyde, oligomeric reaction products with aniline (technical MDA)	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2	0.01%
58	Bis(2-methoxyethyl) phthalate	Refer to EN 14372:2004, GC-MS	Toxic for reproduction, cat.2	0.005%
59	2-Methoxyaniline (o-Anisidine)	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2	0.005%
60	4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol)	Refer to US EPA 3550C:2007, GC-MS	Equivalent concern▲	0.005%
61	1,2-Dichloroethane	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2	0.005%
62	Bis(2-methoxyethyl) ether	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2	0.005%
63	Arsenic acid*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Carcinogen, cat.1	0.01%

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No.	Substance Name(s)	Test Method and Equipment(s)	Substance Classification	Report Limit
64	Calcium arsenate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Carcinogen, cat.1	0.01%
65	Trilead diarsenate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Carcinogen, cat.1; Toxic for reproduction, cat.1	0.01%
66	N,N-dimethylacetamide (DMAC)	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2	0.005%
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	Refer to US EPA 3550C:2007, GC-MS	Carcinogen, cat.2	0.005%
68	Phenolphthalein	Refer to US EPA 3550C:2007, HPLC	Carcinogen, cat.2	0.005%
69	Lead diazide*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Toxic for reproduction, cat.1	0.01%
70	Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Toxic for reproduction, cat.1	0.01%
71	Lead dipicrate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Toxic for reproduction, cat.1	0.01%
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	Refer to US EPA 3550C:2007, GC-MS	Toxic for reproduction	0.01%
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	Refer to US EPA 3550C:2007, GC-MS	Toxic for reproduction	0.01%
74	③Diboron trioxide	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Toxic for reproduction	0.01%
75	Formamide	Refer to US EPA 3550C:2007, GC-MS	Toxic for reproduction	0.01%
76	Lead(II) bis methanesulfonate*	Refer to US EPA 3052:1996 or US EPA 3050B:1996, ICP-OES	Toxic for reproduction	0.01%
77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	Refer to US EPA 3550C:2007, GC-MS	Mutagenic	0.01%
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione)	Refer to US EPA 3550C:2007, GC-MS	Mutagenic	0.01%

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No.	Substance Name(s)	Test Method and Equipment(s)	Substance Classification	Report Limit
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	Refer to US EPA 3550C:2007, GC-MS	Carcinogenic	0.01%
80	N,N,N',N'-tetramethyl-4,4'-methylene dianiline (Michler's base)	Refer to US EPA 3550C:2007, GC-MS	Carcinogenic	0.01%
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)	Refer to US EPA 3550C:2007, LC-MS-MS	Carcinogenic④	0.01%
82	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)	Refer to US EPA 3550C:2007, LC-MS-MS	Carcinogenic④	0.01%
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	Refer to US EPA 3550C:2007, LC-MS-MS	Carcinogenic④	0.01%
84	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	Refer to US EPA 3550C:2007, LC-MS-MS	Carcinogenic④	0.01%

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Test Result(s)

No.	Substance Name(s)	CAS No.	EC No.	Concentration(%)
1	Anthracene	120-12-7	204-371-1	N.D.
2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	N.D.
3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	N.D.
4	Cobalt dichloride*	7646-79-9	231-589-4	N.D.
5	Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.
6	Diarsenic trioxide*	1327-53-3	215-481-4	N.D.
7	Sodium dichromate*	7789-12-0/ 10588-01-9	234-190-3	N.D.
8	Musk xylene	81-15-2	201-329-4	N.D.
9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	204-211-0	N.D.
10	Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	247-148-4/ 221-695-9	N.D.
11	Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	N.D.
12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	N.D.
13	Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.
14	Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	N.D.
15	Triethyl arsenate*	15606-95-8	427-700-2	N.D.
16	①Anthracene oil	90640-80-5	292-602-7	N.D.
17	①Anthracene oil, anthracene paste, distn. Lights ****	91995-17-4	295-278-5	N.D.
18	①Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	N.D.
19	①Anthracene oil, anthracene-low	90640-82-7	292-604-8	N.D.
20	①Anthracene oil, anthracene paste	90640-81-6	292-603-2	N.D.
21	①Coal tar pitch, high temperature	65996-93-2	266-028-2	N.D.
22	Acrylamide	79-06-1	201-173-7	N.D.
23	2,4-Dinitrotoluene	121-14-2	204-450-0	N.D.
24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	N.D.
25	②Lead chromate	7758-97-6	231-846-0	N.D.
26	②Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	N.D.
27	②Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	N.D.
28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	N.D.

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Test Result(s)

No.	Substance Name(s)	CAS No.	EC No.	Concentration(%)
29	Trichloroethylene	79-01-6	201-167-4	N.D.
30	③Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	N.D.
31	③Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	N.D.
32	③Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	N.D.
33	Sodium chromate*	7775-11-3	231-889-5	N.D.
34	Potassium chromate*	7789-00-6	232-140-5	N.D.
35	Ammonium dichromate*	7789-09-5	232-143-1	N.D.
36	Potassium dichromate*	7778-50-9	231-906-6	N.D.
37	Cobalt(Ⅱ) sulphate*	10124-43-3	233-334-2	N.D.
38	Cobalt(Ⅱ) dinitrate*	10141-05-6	233-402-1	N.D.
39	Cobalt(Ⅱ) carbonate*	513-79-1	208-169-4	N.D.
40	Cobalt(Ⅱ) diacetate*	71-48-7	200-755-8	N.D.
41	2-Methoxyethanol	109-86-4	203-713-7	N.D.
42	2-Ethoxyethanol	110-80-5	203-804-1	N.D.
43	Chromium trioxide*	1333-82-0	215-607-8	N.D.
44	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	N.D.
45	2-ethoxyethyl acetate	111-15-9	203-839-2	N.D.
46	Strontium chromate*	7789-06-2	232-142-6	N.D.
47	①1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	N.D.
48	Hydrazine	7803-57-8 302-01-2	206-114-9	N.D.
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	N.D.
50	1,2,3-trichloropropane	96-18-4	202-486-1	N.D.
51	①1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	N.D.

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Test Result(s)

No.	Substance Name(s)	CAS No.	EC No.	Concentration(%)
52	Dichromium tris(chromate)*	24613-89-6	246-356-2	N.D.
53	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	N.D.
54	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	N.D.
55	②Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	N.D.
56	②Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	N.D.
57	①Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	N.D.
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	N.D.
59	2-Methoxyaniline (o-Anisidine)	90-04-0	201-963-1	N.D.
60	4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol)	140-66-9	205-426-2	N.D.
61	1,2-Dichloroethane	107-06-2	203-458-1	N.D.
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	N.D.
63	Arsenic acid*	7778-39-4	231-901-9	N.D.
64	Calcium arsenate*	7778-44-1	231-904-5	N.D.
65	Trilead diarsenate*	3687-31-8	222-979-5	N.D.
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	N.D.
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	N.D.
68	Phenolphthalein	77-9-8	201-004-7	N.D.
69	Lead diazide*	13424-46-9	236-542-1	N.D.
70	Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	N.D.
71	Lead dipicrate*	6477-64-1	229-335-2	N.D.

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Test Result(s)

No.	Substance Name(s)	CAS No.	EC No.	Concentration(%)
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	N.D.
74	③Diboron trioxide	1303-86-2	215-125-8	N.D.
75	Formamide	75-12-7	200-842-0	N.D.
76	Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	N.D.
77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	N.D.
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	N.D.
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	N.D.
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	N.D.
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	N.D.
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	N.D.
84	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	561-41-1	209-218-2	N.D.

Tested Sample/Part Description White ceramic

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Note:

1. w/w = weight by weight; 0.1% = 1000 mg/kg =1000 ppm
2. N.D. = Not Detected (<report limit)
3. PBT= Persistent,Bioaccumulative,Toxic; vPvB=very Persistent very Bioaccumulative
4. ▲= An equivalent level of concern as exerted by CMR or, PBT/vPvB substances.
5. *: Concentration value of Cobalt dichloride; Diarsenic pentaoxide; Diarsenic trioxide; Sodium dichromate; Lead hydrogen arsenate; Triethyl arsenate; Strontium chromate; Sodium chromate; Potassium chromate; Ammonium dichromate; Potassium dichromate; Cobalt(Ⅱ) sulphate; Cobalt(Ⅱ) dinitrate; Cobalt(Ⅱ) carbonate; Cobalt(Ⅱ) diacetate; Chromium trioxide; Chromic acid, Dichromic acid, and Oligomers of chromic acid and dichromic acid; Dichromium tris(chromate); Potassium hydroxyoctaoxodizincatedichromate; Pentazinc chromate octahydroxide; Calcium arsenate; Trilead diarsenate; Arsenic acid; Lead diazide; Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate); Lead dipicrate; Lead(II) bismethanesulfonate by the conversion from the test results of certain elements.
   Concentration value of Bis(tributyltin)oxide by the conversion from the test results of Tributyl Tins.
6. **: 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).
7. ***: C.I.: Colour Index
8. ****: Light fractions from distillation
9. *****: Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate.
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.
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. ③: Concentration value of Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate;Diboron trioxide are calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.
13. ④: The substance does only fulfil the criteria of REACH Art. 57 (a) if it contains Michler's ketone (EC Number: 202-027-5) or Michler's base (EC Number: 202-959-2) in a concentration ≥ 0.1% (weight / weight).

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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.

Test Report

Photo(s) of the sample(s)

*** End of Report ***

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