

# TEST REPORT

NO.: NKR17052000501A-E

Date: May. 26, 2017

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**Consignor** : Ningbo Ruifeng Plastic Co., Ltd

**Address** : Building A, No 219, Dongsheng Road, Zhenhai Economic Development Zone, Ningbo City, Zhejiang Province

**The consignor of the sample information stated to be**

**Sample name** : PVC leather

**Model** : /

**Item/Lot No.** : /

**Buyer** : /

**Supplier** : /

**Sample received date** : May. 20, 2017

**Testing period** : From May. 20, 2017 to May. 26, 2017

**Sample description** : Leather

**Testing Requested :**

As specified by client, based on the list published by European chemicals agency (ECHA) on Oct. 28, 2008, Jan. 13, 2010, Mar. 30, 2010, Jun. 18, 2010, Dec. 15, 2010, Jun. 20, 2011, Dec. 19, 2011, Jun. 18, 2012, Dec. 19, 2011, Jun. 20, 2013, Dec. 16, 2013, Jun. 16, 2014, Dec. 17, 2014, Jun. 15, 2015 and Aug. 31, 2015, ECHA announcement, suggested the list of the first batch of 14 SVHC release. Determination commissioned 168 kinds of content in the sample SVHC.

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*

Signed for and on behalf of  
Shenzhen NTEK Testing Technology Co., Ltd

Project Leader: Frank

Reviewed by: Sally

Approved by: Mark Liao

test team leader: Frank

Test Director: Sally

Authorized signatories: Mark.liao

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## Testing Results

No.	Substance name	CAS No.	EC No.	MDL (%)	Result (%)	Reason
1	Anthracene	120-12-7	204-371-1	0.005	N.D.	Persistent, bioaccumulative and toxic
2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.	Carcinogen, cat. 2
3	Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.	Toxic for reproduction, cat. 2
4	Cobalt dichloride**	7646-79-9	231-589-4	0.005	N.D.	Carcinogen, cat. 2
5	Diarsenic pentaoxide **	1303-28-2	215-116-9	0.005	N.D.	Carcinogen, cat.1
6	Diarsenic trioxide **	1327-53-3	215-481-4	0.005	N.D.	Carcinogen, cat.1
7	Sodium dichromate	7789-12-0 10588-01-9	234-190-3	0.005	N.D.	Carcinogen, cat. 2; Mutagen, cat. 2; Toxic for reproduction, cat. 2
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.005	N.D.	Very persistent and very bioaccumulative
9	Bis (2-ethyl(hexyl)phthalate)	117-81-7	204-211-0	0.005	N.D.	Toxic for reproduction, cat.2
10	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4	247-148-4 221-695-9 (134237-50-6, 134237-51-7, 134237-52-8)	0.005	N.D.	Persistent, bioaccumulative and toxic
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.01	N.D.	Persistent, bioaccumulative and toxic Very persistent and very bioaccumulative
12	Bis(tributyltin)oxide*	56-35-9	200-268-0	0.005	N.D.	Persistent, bioaccumulative and toxic
13	Lead hydrogen arsenate**	7784-40-9	232-064-2	0.005	N.D.	Carcinogen, cat. 1 Toxic for reproduction cat. 1
14	Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.	Toxic for reproduction, cat. 2
15	Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.	Carcinogen, cat. 1

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No.	Substance name	CAS No.	EC No.	MDL (%)	Result (%)	Reason
16	Anthracene oil	90640-80-5	292-602-7	0.005	N.D.	Persistent, bioaccumulative and toxic Very persistent and very bioaccumulative; Carcinogen, category 2
17	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	0.005	N.D.	Persistent, bioaccumulative and toxic Very persistent and very bioaccumulative; Carcinogen, category 2; Mutagen, category 2
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.005	N.D.	
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.005	N.D.	
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.005	N.D.	
21	Coal tar pitch, high temperature	65996-93-2	266-028-2	0.005	N.D.	Persistent, bioaccumulative and toxic; Very persistent and very bioaccumulative; Carcinogen, category 2
22	2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	N.D.	Carcinogen, category 2
23	Diisobutyl phthalate(DIBP)	84-69-5	201-553-2	0.005	N.D.	Toxic for reproduction, category 2
24	Lead chromate**	7758-97-6	231-846-0	0.005	N.D.	Carcinogen, category 2; Toxic for reproduction, category 1
25	Lead chromate molybdate sulphate red **(C. I. Pigment Red 104)	12656-85-8	235-759-9	0.005	N.D.	Carcinogen, category 2; Toxic for reproduction, category 1
26	Lead sulfochromate yellow** (C. I. Pigment Yellow 34)	1344-37-2	215-693-7	0.005	N.D.	Carcinogen, category 2; Toxic for reproduction, category 1
27	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.005	N.D.	Toxic for reproduction, category 2
28	Acrylamide	79-06-1	201-173-7	0.005	N.D.	Carcinogen, category 2; Mutagen, category 2
29	Trichloroethylene	79-01-6	201-167-4	0.005	N.D.	carcinogen, category 2

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No.	Substance name	CAS No.	EC No.	MDL (%)	Result (%)	Reason
30	Boric acid **	10043-35-3 11113-50-1	233-139-2 234-343-4	0.005	N.D.	toxic for reproduction, category 2
31	Disodium tetraborate, anhydrous **	1303-96-4 1330-43-4 12179-04-3	215-540-4	0.005	N.D.	toxic for reproduction, category 2
32	Tetraboron disodium heptaoxide, hydrate **	12267-73-1	235-541-3	0.005	N.D.	toxic for reproduction, category 2
33	Sodium chromate **	7775-11-3	231-889-5	0.005	N.D.	carcinogen, category 2; mutagen, category 2; toxic for reproduction, category 2
34	Potassium chromate **	7789-00-6	232-140-5	0.005	N.D.	carcinogen, category 2; mutagen, category 2
35	Ammonium dichromate **	7789-09-5	232-143-1	0.005	N.D.	carcinogen, category 2; mutagen, category 2; toxic for reproduction, category 2
36	Potassium dichromate **	7778-50-9	231-906-6	0.005	N.D.	carcinogen, category 2; mutagen, category 2; toxic for reproduction, category 2
37	Cobalt(II) sulphate**	10124-43-3	233-334-2	0.005	N.D.	Carcinogenic and toxic to reproduction in accordance with REACH Art. 57(a) and 57(c)
38	Cobalt(II) dinitrate**	10141-05-6	233-402-1	0.005	N.D.	Carcinogenic and toxic to reproduction in accordance with REACH Art. 57(a) and 57(c)
39	Cobalt (II) carbonate**	513-79-1	208-169-4	0.005	N.D.	Carcinogenic and toxic to reproduction in accordance with REACH Art. 57(a) and 57(c)

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No.	Substance name	CAS No.	EC No.	MDL (%)	Result (%)	Reason
40	Cobalt(II) diacetate**	71-48-7	200-755-8	0.005	N.D.	Carcinogenic and toxic to reproduction in accordance with REACH Art. 57(a) and 57(c)
41	2-Methoxyethanol	109-86-4	203-713-7	0.005	N.D.	Toxic to reproduction in accordance with REACH Art. 57(c)
42	2-Ethoxyethanol	110-80-5	203-804-1	0.005	N.D.	Toxic to reproduction in accordance with REACH Art. 57(c)
43	Chromium trioxide**	1333-82-0	215-607-8	0.005	N.D.	Carcinogenic and mutagenic in accordance with REACH Art. 57(a) and 57(b)
44	Acids generated from chromium trioxide and their oligomers** Group containing: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5	0.005	N.D.	Carcinogenic in accordance with REACH Art. 57(a)
45	2-ethoxyethyl acetate	111-15-9	203-839-2	0.005	N.D.	Art. 57 (c), toxic for reproduction
46	Strontium chromate**	7789-06-2	232-142-6	0.005	N.D.	Art. 57 (a), carcinogenic
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6	0.005	N.D.	Art. 57 (c), toxic for reproduction
48	Hydrazine	302-01-2 7803-57-8	206-114-9	0.005	N.D.	Art. 57 (a), carcinogenic
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.0005	N.D.	Art. 57 (c), toxic for reproduction
50	1,2,3-trichloropropane	96-18-4	202-486-1	0.005	N.D.	Art. 57 (a) & (c), carcinogenic & toxic for reproduction
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1	0.005	N.D.	Art. 57 (c), toxic for reproduction
52	Lead styphnate**	15245-44-0	239-290-0	0.005	N.D.	Art. 57 (c), toxic for reproduction

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53	Lead diazide, Lead azide**	13424-46-9	236-542-1	0.005	N.D.	Art. 57 (c), toxic for reproduction
54	Lead dipicrate**	6477-64-1	229-335-2	0.005	N.D.	Art. 57 (c), toxic for reproduction
55	Phenolphthalein	77-09-8	201-004-7	0.005	N.D.	Art. 57 (a), carcinogenic
56	2,2'-Dichloro-4,4'-methylenedi aniline	101-14-4	202-918-9	0.005	N.D.	Art. 57 (a), carcinogenic
57	N,N-dimethylacetamide	127-19-5	204-826-4	0.005	N.D.	Art. 57 (c), toxic for reproduction
58	Trilead diarsenate**	3687-31-8	222-979-5	0.005	N.D.	Art. 57 (a) & (c), carcinogenic & toxic for reproduction
59	Calcium arsenate**	7778-44-1	231-904-5	0.005	N.D.	Art. 57 (a), carcinogenic
60	Arsenic acid**	7778-39-4	231-901-9	0.005	N.D.	Art. 57 (a), carcinogenic
61	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005	N.D.	Art. 57 (c), toxic for reproduction
62	1,2-Dichloroethane	107-06-2	203-458-1	0.005	N.D.	Art. 57 (a), carcinogenic
63	4-(1,1,3,3-Tetramethylbutyl)ph enol; 4-tert-octyl phenol	140-66-9	205-426-2	0.005	N.D.	Art. 57 (f), equivalent level of concern having probable serious effects to the environment
64	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005	N.D.	Art. 57 (a), carcinogenic
65	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005	N.D.	Art. 57 (c), toxic for reproduction
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.010	N.D.	Art. 57 (a), carcinogenic
67	Zirconia Aluminosilicate Refractory Ceramic Fibres***	/	/	0.005	N.D.	Art. 57 (a), carcinogenic
68	Aluminosilicate Refractory Ceramic Fibres***	/	/	0.005	N.D.	Art. 57 (a), carcinogenic
69	Pentazinc chromate octahydroxide**	49663-84-5	256-418-0	0.005	N.D.	Art. 57 (a), carcinogenic
70	Potassium hydroxyoctaoxidizincatedichr omate**	11103-86-9	234-329-8	0.005	N.D.	Art. 57 (a), carcinogenic
71	Dichromium tris(chromate)**	24613-89-6	246-356-2	0.005	N.D.	Art. 57 (a), carcinogenic

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No.	Substance name	CAS No.	EC No.	MDL (%)	Result (%)	Reason
72	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol**** (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.005	N.D.	Carcinogenic (Article 57a)
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.005	N.D.	Carcinogenic (Article 57a)
74	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	423-400-0	0.005	N.D.	Mutagenic (Article 57b)
75	Diboron trioxide**	1303-86-2	215-125-8	0.005	N.D.	Toxic for reproduction (Article 57 c)
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.005	N.D.	Toxic for reproduction (Article 57 c)
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.005	N.D.	Carcinogenic (Article 57a)
78	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	0.005	N.D.	Toxic for reproduction (Article 57 c)
79	Formamide	75-12-7	200-842-0	0.005	N.D.	Toxic for reproduction (Article 57 c)
80	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride ****	548-62-9	208-953-6	0.005	N.D.	Carcinogenic (Article 57a)
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.005	N.D.	Toxic for reproduction (Article 57 c)
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	0.005	N.D.	Carcinogenic (Article 57a)
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	0.005	N.D.	Mutagenic (Article 57b)
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01	N.D.	Carcinogenic (Article 57a)

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85	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.005	N.D.	Equivalent level of concern having probable serious effects to human health (Article 57 f)
86	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.005	N.D.	Carcinogenic (Article 57a)
87	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3]	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.005	N.D.	Equivalent level of concern having probable serious effects to human health (Article 57 f)
88	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	0.005	N.D.	Toxic for reproduction (Article 57 c)
89	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.005	N.D.	vPvB (Article 57 e)
90	4-Aminoazobenzene	60-09-3	200-453-6	0.005	N.D.	Carcinogenic (Article 57a)
91	Silicic acid, lead salt **	11120-22-2	234-363-3	0.005	N.D.	Toxic for reproduction (Article 57 c)
92	Lead titanium zirconium oxide **	12626-81-2	235-727-4	0.005	N.D.	Toxic for reproduction (Article 57 c)
93	Lead monoxide (lead oxide) ***	1317-36-8	215-267-0	0.005	N.D.	Toxic for reproduction (Article 57 c)
94	o-Toluidine	95-53-4	202-429-0	0.005	N.D.	Carcinogenic (Article 57a)
95	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.005	N.D.	Toxic for reproduction (Article 57 c)
96	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	0.005	N.D.	Toxic for reproduction (Article 57 c)
97	Lead bis(tetrafluoroborate) **	13814-96-5	237-486-0	0.005	N.D.	Toxic for reproduction (Article 57 c)
98	Lead dinitrate **	10099-74-8	233-245-9	0.005	N.D.	Toxic for reproduction (Article 57 c)
99	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped**	68784-75-8	272-271-5	0.005	N.D.	Toxic for reproduction (Article 57 c)



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No.	Substance name	CAS No.	EC No.	MDL (%)	Result (%)	Reason
100	Trilead bis(carbonate)dihydroxide**	1319-46-6	215-290-6	0.005	N.D.	Toxic for reproduction (Article 57 c)
101	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.005	N.D.	Carcinogenic (Article 57a)
102	Diethyl sulphate	64-67-5	200-589-6	0.005	N.D.	Carcinogenic (Article 57a); Mutagenic (Article 57b)
103	Dimethyl sulphate	77-78-1	201-058-1	0.005	N.D.	Carcinogenic (Article 57a)
104	N,N-dimethylformamide	68-12-2	200-679-5	0.0005	N.D.	Toxic for reproduction (Article 57 c)
105	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	/	/	0.0005	N.D.	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
106	4-Nonylphenol, branched and linear	/	/	0.0005	N.D.	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
107	Furan	110-00-9	203-727-3	0.005	N.D.	Carcinogenic (Article 57a)
108	Lead oxide sulfate **	12036-76-9	234-853-7	0.005	N.D.	Toxic for reproduction (Article 57 c)
109	Lead titanium trioxide **	12060-00-3	235-038-9	0.005	N.D.	Toxic for reproduction (Article 57 c)
110	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	0.005	N.D.	PBT (Article 57 d); vPvB (Article 57 e)
111	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.005	N.D.	Toxic for reproduction (Article 57 c)
112	1,2-Diethoxyethane	629-14-1	211-076-1	0.005	N.D.	Toxic for reproduction (Article 57 c)
113	N-methylacetamide	79-16-3	201-182-6	0.005	N.D.	Toxic for reproduction (Article 57 c)

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114	Tetralead trioxide sulphate **	12202-17-4	235-380-9	0.005	N.D.	Toxic for reproduction (Article 57 c)
115	Acetic acid, lead salt, basic **	51404-69-4	257-175-3	0.005	N.D.	Toxic for reproduction (Article 57 c)
116	[Phthalato(2-)]dioxotrilead**	69011-06-9	273-688-5	0.005	N.D.	Toxic for reproduction (Article 57 c)
117	Tetraethyllead **	78-00-2	201-075-4	0.005	N.D.	Toxic for reproduction (Article 57 c)
118	N-pentyl-isopentylphthalate	776297-69-9	/	0.005	N.D.	Toxic for reproduction (Article 57 c)
119	Pentalead tetraoxide sulphate **	12065-90-6	235-067-7	0.005	N.D.	Toxic for reproduction (Article 57 c)
120	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.005	N.D.	vPvB (Article 57 e)
121	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.005	N.D.	vPvB (Article 57 e)
122	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.005	N.D.	Toxic for reproduction (Article 57 c)
123	Dioxobis(stearato)trilead	12578-12-0	235-702-8	0.005	N.D.	Toxic for reproduction (Article 57 c)
124	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.005	N.D.	vPvB (Article 57 e)
125	Methoxyacetic acid	625-45-6	210-894-6	0.005	N.D.	Toxic for reproduction (Article 57 c)
126	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.005	N.D.	Carcinogenic (Article 57a); Mutagenic (Article 57b)
127	Trilead dioxide phosphonate	12141-20-7	235-252-2	0.005	N.D.	Toxic for reproduction (Article 57 c)
128	o-aminoazotoluene	97-56-3	202-591-2	0.005	N.D.	Carcinogenic (Article 57a)
129	4-methyl-m-phenylenediamine	95-80-7	202-453-1	0.005	N.D.	Carcinogenic (Article 57a)
130	Diisopentylphthalate	605-50-5	210-088-4	0.005	N.D.	Toxic for reproduction (Article 57 c)
131	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.005	N.D.	Toxic for reproduction (Article 57 c)

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132	Biphenyl-4-ylamine	92-67-1	202-177-1	0.005	N.D.	Carcinogenic (Article 57a)
133	Fatty acids, C16-18, lead salts **	91031-62-8	292-966-7	0.005	N.D.	Toxic for reproduction (Article 57 c)
134	Orange lead (lead tetroxide) **	1314-41-6	215-235-6	0.005	N.D.	Toxic for reproduction (Article 57 c)
135	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.005	N.D.	Carcinogenic (Article 57a); Mutagenic (Article 57b)
136	Diazene-1,2-dicarboxamide (C,C'-azodi (formamide))	123-77-3	204-650-8	0.005	N.D.	Equivalent level of concern having probable serious effects to human health (Article 57 f)
137	Sulfurous acid, lead salt, dibasic **	62229-08-7	263-467-1	0.005	N.D.	Toxic for reproduction (Article 57 c)
138	Lead cyanamidate **	20837-86-9	244-073-9	0.005	N.D.	Toxic for reproduction (Article 57 c)
139	Cadmium	7440-43-9	231-152-8	0.0002	N.D.	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
140	Cadmium oxide**	1306-19-0	215-146-2	0.005	N.D.	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (effects on kidney and bone) (Article 57 f)
141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.005	N.D.	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
142	4-Nonylphenol, branched and linear, ethoxylated	/	/	0.005	N.D.	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.005	N.D.	Toxic for reproduction (Article 57 c); PBT (Article 57 d)

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No.	Substance name	CAS No.	EC No.	MDL (%)	Result (%)	Reason
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.005	N.D.	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
145	Cadmium sulphide**	1306-23-6	215-147-8	0.005	N.D.	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146	Dihexyl phthalate	84-75-3	201-559-5	0.005	N.D.	Toxic for reproduction (Article 57 c)
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	0.005	N.D.	Carcinogenic (Article 57a)
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	0.005	N.D.	Carcinogenic (Article 57a)
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	0.005	N.D.	Toxic for reproduction (Article 57 c)
150	Lead di(acetate)**	301-04-2	206-104-4	0.005	N.D.	Toxic for reproduction (Article 57 c)
151	Trixylyl phosphate	25155-23-1	246-677-8	0.005	N.D.	Toxic for reproduction (Article 57 c)
152	Cadmium chloride**	10108-64-2	233-296-7	0.005	N.D.	Carcinogenic (Article 57a); Mutagenic (Article 57b) Toxic for reproduction (Article 57 c)
153	Diethyl phthalate	695-15-50-4	271-093-5	0.005	N.D.	Toxic for reproduction (Article 57 c)
154	Sodium perborate**	7632-04-4	231-556-4	0.005	N.D.	Toxic for reproduction, category 2
155	Sodium perborate monohydrate**	/	239-172-9 234-390-0	0.005	N.D.	Toxic for reproduction, category 2

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No.	Substance name	CAS No.	EC No.	MDL (%)	Result (%)	Reason
156	Cadmium fluoride**	7790-79-6	232-222-0	0.005	N.D.	Carcinogenic (Article 57a); Mutagenic (Article 57b) Toxic for reproduction (Article 57 c) Equivalent level of concern having probable serious effects to human health (Article 57 f)
157	Cadmium sulfate**	10124-36-4 31119-53-6	233-331-6	0.005	N.D.	Carcinogenic (Article 57a); Mutagenic (Article 57b) Toxic for reproduction (Article 57 c) Equivalent level of concern having probable serious effects to human health (Article 57 f)
158	Ultraviolet absorbent UV-320	3846-71-7	223-346-6	0.005	N.D.	Toxic for reproduction (Article 57 c)
159	Ultraviolet absorbent UV-328	25973-55-1	247-384-8	0.005	N.D.	Toxic for reproduction (Article 57 c)
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	239-622-4	0.005	N.D.	Toxic for reproduction (Article 57 c)
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)	/	/	0.005	N.D.	Toxic for reproduction (Article 57 c)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq$ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1	0.005	N.D.	Toxic for reproduction (Article 57 c)

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No.	Substance name	CAS No.	EC No.	MDL (%)	Result (%)	Reason
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]	/	/	0.005	ND	vPvB (Article 57 e)
164	3-propanesultone	1120-71-4	214-317-9	0.005	N.D.	Carcinogenic (Article 57a)
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol UV-327	3864-99-1	223-383-8	0.005	N.D.	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol UV-350	36437-37-3	253-037-1	0.005	N.D.	vPvB
167	Nitrobenzene	98-95-3	202-716-0	0.005	N.D.	Toxic for reproduction (Article 57 c)
168	Perfluorononan-1-oic acid	375-95-1 21049-39-8 4149-60-4	206-801-3	0.005	N.D.	PBT (Article 57 d)

**Note:**

- N.D.=not detected(<MDL)
- MDL=Method Detection Limit
- \*The substance is calculated by using the test results of Tributyl Tin (testing instrument: GC-MS).
- \*\*The substance is calculated by using the test results of element (Ex. Arsenic, Lead, Cobalt, Sodium, Boron or Cr (VI) respectively (testing instrument: ICP-OES、UV-Vis) .
- \*\*\*All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packing of Chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
- \*\*\*\*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  $\geq 0.1\%$  (weight / weight).
- The SVHC concentration is based on the assessment of the result and the characteristic of material.
- Definition of classification is listed on Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006.

**Appendix A:**

Classification	Definition under 67/548/EEC AND Regulation (EC) No1907/2006
Carcinogen Category 1	: Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer.
Carcinogen Category 2	: Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development

SHENZHEN NTEK TESTING TECHNOLOGY CO., LTD.

ADDRESS: 1/F, BUILDING E, FENDA SCIENCE PARK, SANWEI COMMUNITY, XIXIANG STREET, BAO'AN DISTRICT, SHENZHEN P.R. CHINA.  
TEL: (86)-0755-61156588 FAX: (86)-0755-61156599 HTTP: WWW.NTEK.ORG.CN

 **HOTLINE**  
4000 186 169

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	<p>of cancer.</p> <p>Generally on the basis of:</p> <ul style="list-style-type: none"> <li>- appropriate long-term animal studies</li> <li>- other relevant information.</li> </ul>
Mutagen Category 1	: Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to substances and heritable genetic damage.
Mutagen Category 2	: Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of:
	<ul style="list-style-type: none"> <li>- appropriate animal studies</li> <li>- other relevant information</li> </ul>
Toxic to Reproduction Category 1	: Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility.
	Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.
Toxic to Reproduction Category 2	: Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility in the basis of:
	<ul style="list-style-type: none"> <li>- clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects</li> <li>- other relevant information</li> </ul> <p>Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of:</p> <ul style="list-style-type: none"> <li>- clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects.</li> <li>- other relevant information.</li> </ul>
PBT & vPvB	: Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.

1. The chemical analysis of 170 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on Oct. 28, 2008, Jan. 13, 2010, Mar. 30, 2010, Jun. 18, 2010, Dec. 15, 2010, Jun. 20, 2011, Dec. 19, 2011, Jun. 18, 2012, Dec. 19, 2012, Jun. 20, 2013 and Dec. 16, 2013, Jun. 16, 2014, Dec. 17, 2014 and Jun. 15, 2015, ECHA announcement, officially announced the list of the first batch of 13 SVHC released.
2. In accordance with regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the condition in Article 57 and is identified in accordance with Article 59(1) of the regulation, if (a) the substance is present in these articles in quantities totalling over one tonne per producer or importer per year and (b) the substance is present in those articles above & concentration of 0.1% weight by weight (w/w).

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3. Article 33 of Regulation (EC) No.1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information available to the supplier to allow safe use of the article including as a minimum the name of that substance.

## Photograph of Sample



\*\*\*End of Report\*\*\*

### Report statement:

The test report is invalid without the signature of the authorized person and the special seal of the report, the test sample in this report is provided and confirmed by the customer, the test result is only responsible for the test sample. Shall not copy part of this report.