

SVHC Warranty (Confidential)

Date of submission : 2013. 07. 23.

DMT company hereby warrants that certain homogeneous materials which are impossible to open their chemical composition because of trade secret do not contain more than 0.1% by weight per homogeneous materials (or Article) of any substance on the SVHC¹⁾ candidate list.

Supplier Information

Supplier code	DMT Co.,Ltd	Presenter	Sang In - Kim
Contact number	+82-32-812-7311	E-Mail	qc@dmfit.com
Supplier name	DMT Co.,Ltd		
Maker name	DMT Co.,Ltd		

Guaranteed Homogeneous material

Name	PE TUBE
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SVHC List

※ Please find SVHC list on Appendix I

Signature :  _____

Name : Sang In - Kim

Position : assistant manager

1) SVHC : Substances of Very High Concern

SVHC List

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No.	Substance Name	CAS No.	EC No.
1	Triethyl arsenate	15606-95-8	427-700-2
2	Anthracene	120-12-7	204-371-1
3	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4
4	Dibutyl phthalate (DBP)	84-74-2	201-557-4
5	Cobalt dichloride	7646-79-9	231-589-4
6.	Diarsenic pentaoxide	1303-28-2	215-116-9
7	Diarsenic trioxide	1327-53-3	215-481-4
8	Sodium dichromate	7789-12-0 10588-01-9	234-190-3
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
10	Bis (2-ethylhexyl)phthalate(DEHP)	117-81-7	204-211-0
11	Hexabromocyclododecane (HBCDD) - Alpha-hexabromocyclododecane - Beta-hexabromocyclododecane - Gamma-hexabromocyclododecane	25637-99-4, 3194-55-6 - 134237-51-7 - 134237-50-6 - 134237-52-8	247-148-4 221-695-9
12	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0
13	Lead hydrogen arsenate	7784-40-9	232-064-2
14	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
16	Anthracene oil	90640-80-5	292-602-7
17	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2
21	Diisobutyl phthalate	84-69-5	201-553-2
22	2,4-Dinitrotoluene	121-14-2	204-450-0
23	coal tar pitch, high temperature	65996-93-2	266-028-2
24	tris(2-chloroethyl)phosphate	115-96-8	204-118-5

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No.	Substance Name	CAS No.	EC No.
25	Aluminosilicate, Refractory Ceramic Fibres	-	Index no. 650-017-00-8
26	Zirconia Aluminosilicate, Refractory Ceramic Fibres	-	Index no. 650-017-00-8
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
28	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	235-759-9
29	Lead chromate	7758-97-6	231-846-0
30	Acrylamide	79-06-1	201-173-7
31	Trichloroethylene	79-01-06	201-167-4
32	Boric acid	10043-35-3,	233-139-2
		11113-50-1	234-343-4
33	Disodium tetraborate, anhydrous	1303-96-4	215-540-4
		1330-43-4	
		12179-04-3	
34	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
35	Sodium chromate	7775-11-03	231-889-5
36	Potassium chromate	7789-00-6	232-140-5
37	Ammonium dichromate	7789-09-05	232-143-1
38	Potassium dichromate	7778-50-9	231-906-6
39	Cobalt(II) sulphate	10124-43-3	233-334-2
40	Cobalt(II) dinitrate	10141-05-6	233-402-1
41	Cobalt(II) carbonate	513-79-1	208-169-4
42	Cobalt(II) diacetate	71-48-7	200-755-8
43	2-Methoxyethanol	109-86-4	203-713-7
44	2-Ethoxyethanol	110-80-5	203-804-1
45	Chromium trioxide	1333-82-0	215-607-8
46	Acids generated from chromium trioxide and their oligomers:		231-801-5
	Chromic acid	7738-94-5	236-881-5
	Dichromic acid	13530-68-2	-
	Oligomers of chromic acid and dichromic acid	-	-

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No.	Substance Name	CAS No.	EC No.
47	2-ethoxyethyl acetate	111-15-9	203-839-2
48	strontium chromate	7789-06-02	232-142-6
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6
50	Hydrazine	7803-57-8 302-01-2	206-114-9
51	1-methyl-2-pyrrolidone	872-50-4	212-828-1
52	1,2,3-trichloropropane	96-18-4	202-486-1
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1
54	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2
55	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
56	Arsenic acid	7778-39-4	231-901-9
57	Calcium arsenate	7778-44-1	231-904-5
58	Trilead diarsenate	3687-31-8	222-979-5
59	1,2-Dichloroethane; ethylene dichloride	107-06-2	203-458-1
60	Bis(2-methoxyethyl) ether	111-96-6	203-924-4
61	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
62	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4
63	Lead diazide; Lead azide	13424-46-9	236-542-1
64	Lead styphnate	15245-44-0	239-290-0
65	2,2'-dichloro-4,4'-ethylenedianiline (MOCA)	101-14-4	202-918-9
66	Dichromium tris(chromate)	24613-89-6	246-356-2
67	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8
68	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
69	Phenolphthalein	77-09-8	201-004-7
70	Lead dipicrate	6477-64-1	229-335-2
71	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1

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No.	Substance Name	CAS No.	EC No.
-	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-
-	Aluminosilicate Refractory Ceramic Fibres	-	-
72	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	208-953-6
73	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
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3
75	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	209-218-2
76	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
77	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
78	Diboron trioxide	1303-86-2	215-125-8
79	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	229-851-8
80	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3
81	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
82	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
83	[4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	219-943-6
84	Formamide	75-12-7	200-842-0

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No.	Substance Name	CAS No.	EC No.
85	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
86	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
87	Henicosafleuroundecanoic acid	2058-94-8	218-165-4
88	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1
89	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9
90	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0
91	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
92	Lead dinitrate	10099-74-8	233-245-9
93	Silicic acid, lead salt	11120-22-2	234-363-3
94	4-Aminoazobenzene	60-09-3	200-453-6
95	Lead titanium zirconium oxide	12626-81-2	235-727-4
96	Lead monoxide (lead oxide)	1317-36-8	215-267-0
97	o-Toluidine	95-53-4	202-429-0
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
99	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	272-271-5
100	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6
101	Furan	110-00-9	203-727-3
102	N,N-dimethylformamide	68-12-2	200-679-5

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No.	Substance Name	CAS No.	EC No.
103	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	2315-67-5, 2315-61-9, 9002-93-1, 2497-59-8, etc.	-
104	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]	84852-15-3, 26543-97-5, 104-40-5, 17404-66-9, 30784-30-6, 52427-13-1, 186825-36-5, 142731-63-3, etc.	284-325-5, 247-770-6, 203-199-4, 241-427-4, 250-339-5, 257-907-1, - -, etc.
105	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
106	Diethyl sulphate	64-67-5	200-589-6
107	Dimethyl sulphate	77-78-1	201-058-1
108	Lead oxide sulfate	12036-76-9	234-853-7
109	Lead titanium trioxide	12060-00-3	235-038-9
110	Acetic acid, lead salt, basic	51404-69-4	257-175-3
111	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
112	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9
113	N-methylacetamide	79-16-3	201-182-6
114	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7
115	1,2-Diethoxyethane	629-14-1	211-076-1
116	Tetralead trioxide sulphate	12202-17-4	235-380-9
117	N-pentyl-isopentylphthalate	776297-69-9	-
118	Dioxobis(stearato)trilead	12578-12-0	235-702-8
119	Tetraethyllead	78-00-2	201-075-4
120	Pentalead tetraoxide sulphate	12065-90-6	235-067-7
121	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
122	Tricosafuorododecanoic acid	307-55-1	206-203-2

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No.	Substance Name	CAS No.	EC No.
123	Heptacosaflluorotetradecanoic acid	376-06-7	206-803-4
124	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0
125	Methoxyacetic acid	625-45-6	210-894-6
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1
127	Methyloxirane (Propylene oxide)	75-56-9	200-879-2
128	Trilead dioxide phosphonate	12141-20-7	235-252-2
129	o-aminoazotoluene	97-56-3	202-591-2
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
131	4,4'-oxydianiline and its salts	101-80-4	202-977-0
132	Orange lead (lead tetroxide)	1314-41-6	215-235-6
133	Biphenyl-4-ylamine	92-67-1	202-177-1
134	Diisopentylphthalate	605-50-5	210-088-4
135	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
137	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
138	Lead cyanamidate	20837-86-9	244-073-9
139	Ammonium pentadecafluorootanoate (APFO)	3825-26-1	223-320-4
140	Di-n-pentyl phthalate	131-18-0	205-017-9
141	Cadmium	7440-43-9	231-152-8
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
143	Cadmium oxide	1306-19-0	215-146-2
144	4-Nonylphenol, branched and linear, ethoxylated	84852-15-3, 26543-97-5, 104-40-5, 17404-66-9, 30784-30-6, 52427-13-1, 186825-36-5, 142731-63-3, etc.	284-325-5, 247-770-6, 203-199-4, 241-427-4, 250-339-5, 257-907-1, -, -, etc