

CERTIFICATE

DaelimPoly XP4100

It is hereby stated and certified that **DaelimPoly XP4100** produced and sold by DL Chemical Co.,Ltd complies with the Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH) Directives to the extent stated herein:

DL Chemical Co.,Ltd is a manufacturer of articles and has taken the initiative to review the (209) substances that are under consideration for treatment as Substances of Very High Concern (SVHC) candidates. We DL Chemical Co.,Ltd confirmed that our **DaelimPoly XP4100** does not contain any of the listed substances in concentration >0.1% weight per supplied article, substance or preparation weight. Please refer to **the Attached 1**.

And we will check continually updated list of SVHC whether **Article 1** contains substances on that list or not.

Kye-Hee, Lee 

Quality Assurance Team Manager
Yeosu Complex
DL Chemical Co., Ltd.

Attached 1: Candidate list of SVHC (Lasted Up Date : Jun. 25. 2020 by ECHA)

No	Substance name	EC number	CAS number	Concentration
1	anthracene	204-371-1	120-12-7	N. D.
2	4,4'-diaminodiphenylmethane	202-974-4	101-77-9	N. D
3	dibutyl phthalate(DBP)	201-557-4	84-74-2	N. D
4	cobalt dichloride	231-589-4	7646-79-9	N. D
5	diarsenic pentaoxide	215-116-9	1303-28-2	N. D
6	diarsenic trioxide	215-481-4	1327-53-3	N. D
7	sodium dichromate	234-190-3	7789-12-0 10588-01-9	N. D
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	N. D
9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	204-211-0	117-81-7	N. D
10	hexabromocyclododecane(HBCDD)	247-148-4 221-695-9	25637-99-4	N. D
11	short chain chlorinated paraffins(SCCPs)	287-476-5	85535-84-8	N. D
12	bis(tributyltin)oxide(TBTO)	200-268-0	56-35-9	N. D
13	Lead hydrogen arsenate	232-064-2	7784-40-9	N. D
14	Triethyl arsenate	427-700-2	15606-95-8	N. D
15	benzyl butyl phthalate(BBP)	201-622-7	85-68-7	N. D
16	Anthracene oil	292-602-7	90640-80-5	N. D
17	Anthracene oil, anthracene paste, distn, light	295-278-5	91995-17-4	N. D
18	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	N. D
19	Anthracene oil, anthracene-low	292-604-8	90640-82-7	N. D
20	Anthracene oil, anthracene-paste	292-603-2	90640-81-6	N. D
21	Coal tar pitch, high temperature	266-028-2	65996-93-2	N. D
22	Acrylamide	201-173-7	1979-06-01	N. D
23	2,4-Dinitrotoluene	204-450-0	121-14-2	N. D
24	Diisobutyl phthalate	201-553-2	84-69-5	N. D
25	Lead chromate	231-846-0	7758-97-6	N. D
26	Lead chromate molybdate sulphate red	235-759-9	12656-85-8	N. D
27	Lead sulfochromate yellow	215-693-7	1344-37-2	N. D
28	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	N. D
29	Trichloroethylene	201-167-4	79-01-06	N. D
30	Boric acid	233-139-2	10043-35-3	N. D

		234-343-4	11113-50-1	
31	Disodium tetraborate, anhydrous	215-540-4	1330-43-4 12179-04-3 1303-96-4	N. D
32	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	N. D
33	Sodium chromate	231-889-5	7775-11-03	N. D
34	Potassium chromate	232-140-5	7789-00-6	N. D
35	Ammonium dichromate	232-143-1	7789-09-05	N. D
36	Potassium dichromate	231-906-6	7778-50-9	N. D
37	Cobalt(II) sulphate	233-334-2	10124-43-3	N. D
38	Cobalt(II) dinitrate	233-402-1	10141-05-6	N. D
39	Cobalt(II) carbonate	208-169-4	513-79-1	N. D
40	Cobalt(II) diacetate	200-755-8	71-48-7	N. D
41	2-Methoxyethanol	203-713-7	109-86-4	N. D
42	2-Ethoxyethanol	203-804-1	110-80-5	N. D
43	Chromium trioxide	215-607-8	1333-82-0	N. D
44	Acids generated from chromium trioxide and their oligomers: -. Chromic acid -. Dichromic acid Oligomers of chromic acid and dichromic acid	231-801-5 236-881-5	7738-94-5 13530-68-2	N. D
45	2-ethoxyethyl acetate	203-839-2	111-15-9	N. D
46	Strontium chromate	232-142-6	7789-06-02	N. D
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)	271-084-6	68515-42-4	N. D
48	Hydrazine Hydrazing hydrate	206-114-9	302-01-2 7803-57-8	N. D
49	1-methyl-2-pyrrolidone	212-828-1	872-50-4	N. D
50	1,2,3-trichloropropane	202-486-1	96-18-4	N. D
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters(DIHP)	276-158-1	71888-89-6	N. D
52	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to	-	-	N. D

	18% by weight			
53	Calcium arsenate	231-904-5	7778-44-1	N. D
54	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	N. D
55	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-	-	N. D
56	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	N. D
57	Lead dipicrate	229-335-2	6477-64-1	N. D
58	N,N-dimethylacetamide	204-826-4	127-19-5	N. D
59	Arsenic acid	231-901-9	7778-39-4	N. D
60	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	N. D
61	Trilead diarsenate	222-979-5	3687-31-8	N. D
62	1,2-dichloroethane	203-458-1	107-06-2	N. D
63	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	N. D
64	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	N. D
65	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	N. D
66	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	N. D
67	Lead diazide, Lead azide	236-542-1	13424-46-9	N. D
68	Phenolphthalein	201-004-7	77-09-08	N. D
69	Dichromium tris(chromate)	246-356-2	24613-89-6	N. D
70	Lead styphnate	239-290-0	15245-44-0	N. D
71	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	N. D
72	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol	229-851-8	6786-83-0	N. D
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	N. D
74	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	N. D
75	Diboron trioxide	215-125-8	1303-86-2	N. D
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	N. D

77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1	N. D
78	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	N. D
79	Formamide	200-842-0	75-12-07	N. D
80	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	208-953-6	548-62-9	N. D
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	N. D
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride	219-943-6	2580-56-5	N. D
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	N. D
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	N. D
85	Bis(pentabromophenyl) ether (decabromo-diphenyl ether; DecaBDE)	214-604-9	1163-19-5	N. D
86	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	N. D
87	Tricosafuorododecanoic acid	206-203-2	307-55-1	N. D
88	Henicosafuoroundecanoic acid	218-165-4	2058-94-8	N. D
89	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	N. D
90	Diazene-1,2-dicarboxamide (C,C'-azodi (formamide))	204-650-8	123-77-3	N. D
91	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].	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	N. D
92	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]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	N. D
93	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]	-	-	N. D
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	N. D
95	Methoxyacetic acid	210-894-6	625-45-6	N. D
96	N,N-dimethylformamide	200-679-5	68-12-2	N. D
97	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	N. D

98	Lead monoxide (Lead oxide)	215-267-0	1317-36-8	N. D
99	Orange lead (Lead tetroxide)	215-235-6	1314-41-6	N. D
100	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	N. D
101	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	N. D
102	Lead titanium trioxide	235-038-9	12060-00-3	N. D
103	Lead titanium zirconium oxide	235-727-4	12626-81-2	N. D
104	Silicic acid, lead salt	234-363-3	11120-22-2	N. D
105	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]	272-271-5	68784-75-8	N. D
106	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	N. D
107	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	N. D
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	N. D
109	Diisopentylphthalate (DIPP)	210-088-4	605-50-5	N. D
110	N-pentyl-isopentylphthalate	-	776297-69-9	N. D
111	1,2-diethoxyethane	211-076-1	629-14-1	N. D
112	Acetic acid, lead salt, basic	257-175-3	51404-69-4	N. D
113	Lead oxide sulfate	234-853-7	12036-76-9	N. D
114	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	N. D
115	Dioxobis(stearato)trilead	235-702-8	12578-12-0	N. D
116	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	N. D
117	Lead cyanamidate	244-073-9	20837-86-9	N. D
118	Lead dinitrate	233-245-9	10099-74-8	N. D
119	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	N. D
120	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	N. D
121	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	N. D
122	Tetraethyllead	201-075-4	78-00-2	N. D
123	Tetralead trioxide sulphate	235-380-9	12202-17-4	N. D
124	Trilead dioxide phosphonate	235-252-2	12141-20-7	N. D
125	Furan	203-727-3	110-00-9	N. D
126	Diethyl sulphate	200-589-6	64-67-5	N. D
127	Dimethyl sulphate	201-058-1	77-78-1	N. D

128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	N. D
129	Dinoseb (6- <i>sec</i> -butyl-2,4-dinitrophenol)	201-861-7	88-85-7	N. D
130	4,4'-methylenedi- <i>o</i> -toluidine	212-658-8	838-88-0	N. D
131	4,4'-oxydianiline and its salts	202-977-0	101-80-4	N. D
132	4-aminoazobenzene	200-453-6	60-09-3	N. D
133	4-methyl- <i>m</i> -phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	N. D
134	6-methoxy- <i>m</i> -toluidine (p-cresidine)	204-419-1	120-71-8	N. D
135	Biphenyl-4-ylamine	202-177-1	92-67-1	N. D
136	<i>o</i> -aminoazotoluene [(4- <i>o</i> -tolylazo- <i>o</i> -toluidine)]	202-591-2	97-56-3	N. D
137	<i>o</i> -toluidine	202-429-0	95-53-4	N. D
138	<i>N</i> -methylacetamide	201-182-6	79-16-3	N. D
139	Cadmium	231-152-8	7440-43-9	N. D
140	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	N. D
141	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	N. D
142	Dipentyl phthalate (DPP)	205-017-9	131-18-0	N. D
143	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]	-	-	N. D
144	Cadmium oxide	215-146-2	1306-19-0	N. D
145	Cadmium sulphide	215-147-8	1306-23-6	N. D
146	Dihexyl phthalate	201-559-5	84-75-3	N. D
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)	209-358-4	573-58-0	N. D
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)	217-710-3	1937-37-7	N. D
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	202-506-9	96-45-7	N. D
150	Lead di(acetate)	206-104-4	301-04-2	N. D
151	Trixylyl phosphate	246-677-8	25155-23-1	N. D
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	N. D
153	Sodium perborate; perboric acid, sodium salt	239-172-9, 234-390-0	-	N. D
154	Sodium peroxometaborate	231-556-4	7632-04-4	N. D
155	Cadmium chloride	233-296-7	10108-64-2	N. D

156	Cadmium fluoride	232-222-0	7790-79-6	N. D
157	Cadmium sulphate	233-331-6	10124-36-4; 31119-53-6	N. D
158	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	N. D
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	N. D
160	2-ethylhexyl 10-ethyl-4, 4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate(DOTE)	239-622-4	15571-58-1	N. D
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)	-	-	N. D
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	271-094-0 272-013-1	68515-51-5 68648-93-1	N. D
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]	-	-	N. D
164	1,3-propanesultone	214-317-9	1120-71-4	N. D
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	N. D
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)	253-037-1	36437-37-3	N. D
167	Nitrobenzene	202-716-0	98-95-3	N. D
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	N. D
169	Benzo[def]chrysene	200-028-5	50-38-2	N. D
170	4,4'-isopropylidenediphenol	201-245-8	80-05-7	N. D
171	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	-	-	N. D
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	-	N. D
173	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	N. D
174	Perfluorohexane-1-sulphonic acid and its salts	-	-	N. D
175	Benz[a]anthracene	200-280-6	56-55-3 1718-53-2	N.D
176	Cadmium carbonate	208-168-9	513-78-0	N.D
177	Cadmium hydroxide	244-168-5	21041-95-2	N.D
178	Cadmium nitrate	233-710-6	10022-68-1	N.D

			10325-94-7	
179	Chrysene	205-923-4	218-01-9 1719-03-5	N.D
180	Dodecachloropentacyclo[12.2.1.1.6,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM)	-	-	N.D
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	N.D
182	Octamethylcyclotetrasiloxane(D4)	209-136-7	556-67-2	N.D
183	Decamethylcyclotetrasiloxane(D5)	208-764-9	541-02-6	N.D
184	Dodecamethylcyclotetrasiloxane(D6)	208-762-8	540-97-6	N.D
185	Lead	231-100-4	7439-92-1	N.D
186	Disodium octaborate	234-541-0	12008-41-2	N.D
187	Benzo(ghi)perylene	205-883-8	191-24-2	N.D
188	Terphenyl hydrogenated	262-967-7	61788-32-7	N.D
189	Ethylenediamine(EDA)	203-468-6	107-15-3	N.D
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride(trimellitic anhydride)(TMA)	209-008-0	552-30-7	N.D
191	Dicyclohexyl phthalate(DCHP)	201-545-9	84-61-7	N.D
192	2,2-bis(4-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	N.D
193	Benzo[k]fluoranthene	205-916-6	207-08-9	N.D
194	Fluoranthene	205-912-4	206-44-0	N.D
195	Phenanthrene	201-581-5	85-01-8	N.D
196	Pyrene	204-927-3	129-00-0	N.D
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptane-2-one	239-139-9	15087-24-8	N.D
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acryl halides		13252-13-6	N.D
199	2-methoxyethyl acetate	203-772-9	110-49-6	N.D
200	3-tert-butylphenol	202-679-0	98-54-4	N.D
201	Tris(4-nonylphenyl, branched and linear) phosphite(TNPP) with ≥0.1% w/w of 4-nonylphenol, branched and linear(4-NP)		26526-78-4	N.D
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	N.D
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	N.D
204	Diisohexyl phthalate	276-090-2	71850-09-4	N.D
205	Perfluorobutane sulfonic acid(PFBS) and its salts		375-73-5	N.D
206	1-vinylimidazole	214-012-0	1072-63-5	N.D

207	2-methylimidazole	211-765-7	693-98-1	N.D
208	Butyl 4-hydroxybenzoate	202-318-7	94-26-8	N.D
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	N.D

*1 SVHC : Substance of Very High Concern(http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)