



エルナー株式会社
コンデンサ事業部
品質保証部 環境技術グループ
福島県西白河郡西郷村大字米字楢山9-32

製品に含まれる環境化学物質に関する不使用保証書

弊社は、弊社(弊社の子会社・関連会社を含む)が、直接または第三者を通じて提供するすべての製品および部品に、次頁の表に示す環境化学物質を含まないこと、あるいは含有量が0.1wt%未満であることを保証致します。

記

1. 対象化学物質

次頁に示す REACH 規制 SVHC LIST

2. 対象製品: ELNA GREEN CAP

REACH SVHC LIST

No.	Chemical substances name	CAS No.	EC No.
1	Dibutyl phthalate (DBP)	84-74-2	201-557-4
2	Bis (2-ethyl hexyl) phthalate (DEHP)	117-81-7	204-211-0
3	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
4	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4
5	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
6	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α – HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4, 3194-55-6 134237-50-6, 134237-51-7, 134237-52-8	247-148-4, 221-695-9
7	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins ; SCCPs)	85535-84-8	287-476-5
8	Anthracene	120-12-7	204-371-1
9	Cobalt dichloride	7646-79-9	231-589-4
10	Sodium dichromate and its dihydrate	7789-12-0, 10588-01-9	234-190-3
11	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0
12	Lead hydrogen arsenate	7784-40-9	232-064-2
13	Diarsenic pentaoxide	1303-28-2	215-116-9
14	Diarsenic trioxide	1327-53-3	215-481-4
15	Triethyl arsenate	15606-95-8	427-700-2
16	Anthracene oil	90640-80-5	292-602-7
17	Anthracene oil, anthracene paste, distn. lights; Anthracene Oil Fraction	91995-17-4	295-278-5
18	Anthracene oil, anthracene paste, anthracene fraction; Anthracene Oil Fraction	91995-15-2	295-275-9
19	Anthracene oil, anthracene-low; Anthracene Oil Fraction	90640-82-7	292-604-8
20	Anthracene oil, anthracene paste; Anthracene Oil Fraction	90640-81-6	292-603-2
21	2,4-Dinitrotoluene; Dinitrotoluene, technical grade	121-14-2	204-450-0
22	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2
23	Lead chromate (PbCrO ₄)	7758-97-6	231-846-0
24	Lead chromate molybdate sulfate red; C.I. Pigment Red 104	12656-85-8	235-759-9
25	Lead sulfochromate yellow; C.I Pigment Yellow 34	1344-37-2	215-693-7
26	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5
27	Pitch, coal tar, high temp.; Pitch	65996-93-2	266-028-2
28	Acrylamide; prop-2-enamide	79-06-1	201-173-7
29	Trichloroethylene; trichloroethene	79-01-6	201-167-4

No	Chemical substances name	CAS No.	EC No.
30	Boric acid	10043-35-3, 11113-50-1	233-139-2, 234-343-4
31	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	215-540-4, 215-540-4, 215-540-4
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
33	Sodium chromate	7775-11-3	231-889-5
34	Potassium chromate	7789-00-6	232-140-5
35	Ammonium dichromate	7789-09-5	232-143-1
36	Potassium dichromate	7778-50-9	231-906-6
37	Cobalt(II) sulphate	10124-43-3	233-334-2
38	Cobalt(II) dinitrate	10141-05-6	233-402-1
39	Cobalt(II) carbonate	513-79-1	208-169-4
40	Cobalt(II) diacetate	71-48-7	200-755-8
41	2-Methoxyethanol	109-86-4	203-713-7
42	2-Ethoxyethanol	110-80-5	203-804-1
43	Chromium trioxide	1333-82-0	215-607-8
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
45	2-ethoxyethyl acetate	111-15-9	203-839-2
46	strontium chromate	7789-06-2	232-142-6
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6
48	Hydrazine	7803-57-8、 302-01-2	206-114-9
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1
50	1,2,3-trichloropropane	96-18-4	202-486-1
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1
52	Dichromium tris(chromate)	24613-89-6	246-356-2
53	Potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9	234-329-8
54	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
55	Aluminosilicate Refractory Ceramic Fibres	-	-
56	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-
57	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2
61	1,2-Dichloroethane	107-06-2	203-458-1
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4

No	Chemical substances name	CAS No.	EC No.
63	Arsenic acid	7778-39-4	231-901-9
64	Calcium arsenate	7778-44-1	231-904-5
65	Trilead diarsenate	3687-31-8	222-979-5
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9
68	Phenolphthalein	77-09-8	201-004-7
69	Lead azide Lead diazide	13424-46-9	236-542-1
70	Lead styphnate	15245-44-0	239-290-0
71	Lead dipicrate	6477-64-1	229-335-2
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
74	Diboron trioxide	1303-86-2	215-125-8
75	Formamide	75-12-7	200-842-0
76	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	219-514-3
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	423-400-0
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
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
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
83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol? (C.I. Solvent Blue 4)	6786-83-0	229-851-8
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
87	Tricosafuorododecanoic acid	307-55-1	206-203-2
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8

No	Chemical substances name	CAS No.	EC No.
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].	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9
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]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1
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]	-	-
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
95	Methoxyacetic acid	625-45-6	210-894-6
96	N,N-dimethylformamide	68-12-2	200-679-5
97	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0
98	Lead monoxide (Lead oxide)	1317-36-8	215-267-0
99	Orange lead (Lead tetroxide)	1314-41-6	215-235-6
100	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
101	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6
102	Lead titanium trioxide	12060-00-3	235-038-9
103	Lead titanium zirconium oxide	12626-81-2	235-727-4
104	Silicic acid, lead salt	11120-22-2	234-363-3
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]	68784-75-8	272-271-5

No	Chemical substances name	CAS No.	EC No.
106	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0
107	Methyloxirane (Propylene oxide)	75-56-9	200-879-2
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
109	Diisopentylphthalate (DIPP)	605-50-5	210-088-4
110	N-pentyl-isopentylphthalate	776297-69-9	-
111	1,2-diethoxyethane	629-14-1	211-076-1
112	Acetic acid, lead salt, basic	51404-69-4	257-175-3
113	Lead oxide sulfate	12036-76-9	234-853-7
114	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
115	Dioxobis(stearato)trilead	12578-12-0	235-702-8
116	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
117	Lead cyanidate	20837-86-9	244-073-9
118	Lead dinitrate	10099-74-8	233-245-9
119	Pentalead tetraoxide sulphate	12065-90-6	235-067-7
120	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
121	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
122	Tetraethyllead	78-00-2	201-075-4
123	Tetralead trioxide sulphate	12202-17-4	235-380-9
124	Trilead dioxide phosphonate	12141-20-7	235-252-2
125	Furan	110-00-9	203-727-3
126	Diethyl sulphate	64-67-5	200-589-6
127	Dimethyl sulphate	77-78-1	201-058-1
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7
130	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
131	4,4'-oxydianiline and its salts	101-80-4	202-977-0
132	4-aminoazobenzene	60-09-3	200-453-6
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
135	Biphenyl-4-ylamine	92-67-1	202-177-1
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	202-591-2
137	o-toluidine	95-53-4	202-429-0
138	N-methylacetamide	79-16-3	201-182-6
139	Cadmium oxide	1306-19-0	215-146-2
140	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]	-	-
141	Dipentyl phthalate (DPP)	131-18-0	205-017-9
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4

No	Chemical substances name	CAS No.	EC No.
144	Cadmium	7440-43-9	231-152-8
145	Cadmium sulphide	1306-23-6	215-147-8
146	Dihexyl phthalate	84-75-3	201-559-5
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
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
149	Imidazolidine-2-thione	96-45-7	202-506-9
150	Lead di(acetate)	301-04-2	206-104-4
151	Trixylyl phosphate	25155-23-1	246-677-8
152	Cadmium chloride	10108-64-2	233-296-7
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5
154	Sodium peroxometaborate	7632-04-4	231-556-4
155	Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0
156	Cadmium fluoride	7790-79-6	232-222-0
157	Cadmium sulphate	10124-36-4; 31119-53-6	233-331-6
158	2-benzotriazol-2-yl-4, 6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6
159	2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stann atetradecanoate (DOTE)	15571-58-1	239-622-4
161	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stann atetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4 -octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecano ate (reaction mass of DOTE and MOTE)	-	-
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
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-m ethyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-m ethyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-
164	Nitrobenzene	98-95-3	202-716-0
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)pheno l (UV-327)	3864-99-1	223-383-8
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	253-037-1
167	1,3-propanesultone	1120-71-4	214-317-9

No	Chemical substances name	CAS No.	EC No.
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8
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,
172	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9
173	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]	-	-
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	-
175	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6
176	Cadmium carbonate	513-78-0	208-168-9
177	Cadmium hydroxide	21041-95-2	244-168-5
178	Cadmium nitrate	10022-68-1, 10325-94-7	233-710-6
179	Chrysene	218-01-9, 1719-03-5	205-923-4
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof	13560-89-9 135821-74-8 135821-03-3	-
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 (4-HPbl)	-	-
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8
185	Lead	7439-92-1	231-100-4
186	Disodium octaborate	12008-41-2	234-541-0
187	Benzo[ghi]perylene	191-24-2	205-883-8
188	Terphenyl hydrogenated	61788-32-7	262-967-7
189	Ethylenediamine (EDA)	107-15-3	203-468-6
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0
191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9

No	Chemical substances name	CAS No.	EC No.
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1
193	Benzo[k]fluoranthene	207-08-9	205-916-6
194	Fluoranthene	206-44-0	205-912-4
195	Phenanthrene	85-01-8	201-581-5
196	Pyrene	129-00-0	204-927-3
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo [2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	239-139-9
198	2-methoxyethyl acetate	110-49-6	203-772-9
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonyl phenol, 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	98-54-4	202-679-0
202	Diisohexyl phthalate	71850-09-4	276-090-2
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
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	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0
209	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8	202-318-7
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7
211	Diocetyl tin 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	-	-
212	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-
213	Orthoboric acid, sodium salt	13840-56-7	237-560-1
214	2,2-bis(bromomethyl)propane-1,3-diol (BMP);	3296-90-0	221-967-7
	2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA);	36483-57-5 1522-92-5	253-057-0
	2,3-dibromo-1-propanol (2,3-DBPA)	96-13-9	202-480-9
215	Glutaral	111-30-8	203-856-5
216	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	-

No	Chemical substances name	CAS No.	EC No.
217	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-
218	1,4-dioxane	123-91-1	204-661-8
219	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	201-025-1

アルミニウム電解コンデンサおよび電気二重層コンデンサーにホウ酸は含まれておりません。

しかし、アルミニウム電解コンデンサおよび電気二重層コンデンサーの電解質には、硼素化合物またはホウ酸化合物に由来したホウ素あるいはホウ酸塩イオンを含んでいます。