



REACH Compliance Declaration

## REACH/RoHS/WEEE Compliance Declaration

Reference:

Restrictions of Hazardous Substances Directive (RoHS) 2002/95/EC & 2011/65/EU & 2015/863/EU

Waste Electrical and Electronic Equipment (WEEE)

REACH (EC) No 1907/2006

*RECTRON LTD. supports the overall REACH objectives of improving the protection of human health and the environment. It is the policy of RECTRON LTD. to provide products that are safe to use and environmentally acceptable. As a result, RECTRON LTD has reviewed our manufacturing processes and materials against the above referenced directives.*

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*We declare that all of our products comply fully with the above directives and do not contain any of the banned SVHC listed below in excess of the allowable concentrations except as currently exempted by RoHS [i.e. Pb in glass (7c-I) and High Temp. solders (7a)]:*

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## REACH Candidate List of SVHC 181

No.	Substance Name	EC Number	CAS Number
1	1,3-propanesultone	214-317-9	1120-71-4
2	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
3	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
4	Nitrobenzene	202-716-0	98-95-3
5	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 1"21049-39-8" 4140-60-4
6	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)	271-094-0"272-013-1	68515-51-5"68648-93-1
7	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	-	-
8	Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7
9	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1
10	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7
11	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)	-	-
12	Cadmium fluoride	232-222-0	7790-79-6
13	Cadmium sulphate	233-331-6	10124-36-4,31119-53-6
14	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1
15	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
16	Cadmium chloride	233-296-7	10108-64-2
17	Sodium peroxometaborate	231-556-4	7632/4/4
18	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-
19	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.	217-710-3	1937-37-7
20	Trixylyl phosphate	246-677-8	25155-23-1
21	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7

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No.	Substance Name	EC Number	CAS Number
22	Cadmium sulphide	215-147-8	1306-23-6
23	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
24	Lead di(acetate)	206-104-4	301-04-2
25	Dihexyl phthalate	201-559-5	84-75-3
26	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1
27	Cadmium oxide	215-146-2	1306-19-0
28	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]	-	-
29	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
30	Dipentyl phthalate (DPP)	205-017-9	131-18-0
31	Cadmium	231-152-8	7440-43-9
32	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
33	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3
34	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
35	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
36	Pentalead tetraoxide sulphate	235-067-7	12065-90-6
37	Silicic acid, lead salt	234-363-3	11120-22-2
38	4,4'-oxydianiline and its salts	202-977-0	101-80-4
39	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
40	Furan	203-727-3	110-00-9
41	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
42	Diethyl sulphate	200-589-6	64-67-5
43	N-pentyl-isopentylphthalate	-	776297-69-9

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No.	Substance Name	EC Number	CAS Number
44	o-aminoazotoluene	202-591-2	97-56-3
45	Lead cyanamidate	244-073-9	20837-86-9
46	Tetralead trioxide sulphate	235-380-9	12202-17-4
47	o-Toluidine	202-429-0	95-53-4
48	Dioxobis(stearato)trilead	235-702-8	12578-12-0
49	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), 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
50	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
51	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5
52	N,N-dimethylformamide	200-679-5	1968/12/2
53	4-Aminoazobenzene	200-453-6	1960/9/3
54	N-methylacetamide	201-182-6	79-16-3
55	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7
56	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
57	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8
58	Tetraethyllead	201-075-4	78-00-2
59	Trilead dioxide phosphonate	235-252-2	12141-20-7
60	Lead monoxide (lead oxide)	215-267-0	1317-36-8
61	Acetic acid, lead salt, basic	257-175-3	51404-69-4
62	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
63	Lead dinitrate	233-245-9	10099-74-8
64	Methoxyacetic acid	210-894-6	625-45-6
65	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
66	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
67	Lead titanium trioxide	235-038-9	12060-00-3

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No.	Substance Name	EC Number	CAS Number
68	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
69	Methyloxirane (Propylene oxide)	200-879-2	75-56-9
70	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	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3
71	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
72	Dimethyl sulphate	201-058-1	77-78-1
73	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]	-	-
74	Biphenyl-4-ylamine	202-177-1	92-67-1
75	1,2-Diethoxyethane	211-076-1	629-14-1
76	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
77	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
78	Tricosafuorododecanoic acid	206-203-2	307-55-1
79	Lead oxide sulfate	234-853-7	12036-76-9
80	Diisopentylphthalate	210-088-4	605-50-5
81	Orange lead (lead tetroxide)	215-235-6	1314-41-6
82	Lead titanium zirconium oxide	235-727-4	12626-81-2
83	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
84	Henicosafuoroundecanoic acid	218-165-4	2058-94-8
85	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6
86	Formamide	200-842-0	1975/12/7
87	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
88	$\alpha,\alpha$ -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)]	229-851-8	6786-83-0
89	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	423-400-0	59653-74-6
90	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8

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No.	Substance Name	EC Number	CAS Number
91	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9
92	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1
93	[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)]	219-943-6	2580-56-5
94	[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)]	208-953-6	548-62-9
95	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
96	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)]	209-218-2	561-41-1
97	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
98	Diboron trioxide	215-125-8	1303-86-2
99	Lead diazide, Lead azide	236-542-1	13424-46-9
100	Calcium arsenate	231-904-5	7778-44-1
101	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
102	Arsenic acid	231-901-9	7778-39-4
103	Lead dipicrate	229-335-2	6477-64-1
104	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9
105	Phenolphthalein	201-004-7	1977/9/8
106	Bis(2-methoxyethyl) ether	203-924-4	111-96-6
107	Pentazinc chromate octahydroxide	256-418-0	49663-84-5
108	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 ( $\mu$ m). c) alkaline oxide and alkali earth oxide ( $\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$ ) content less or equal to 18% by weight	-	-
109	Trilead diarsenate	222-979-5	3687-31-8
110	Dichromium tris(chromate)	246-356-2	24613-89-6

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No.	Substance Name	EC Number	CAS Number
111	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4
112	1,2-dichloroethane	203-458-1	107-06-2
113	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9
114	Lead styphnate	239-290-0	15245-44-0
115	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4
116	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
117	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 (um) c) alkaline oxide and alkali earth oxide	-	-
118	N,N-dimethylacetamide	204-826-4	127-19-5
119	Cobalt dichloride	231-589-4	7646-79-9
120	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6
121	Strontium chromate	232-142-6	7789/6/2
122	2-Ethoxyethyl acetate	203-839-2	111-15-9
123	1,2,3-Trichloropropane	202-486-1	96-18-4
124	Hydrazine	206-114-9	302-01-2, 7803-57-8
125	1-Methyl-2-pyrrolidone	212-828-1	872-50-4
126	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4
127	Acids generated from chromium trioxide and their oligomers. Names of the acids 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
128	2-Ethoxyethanol	203-804-1	110-80-5
129	Cobalt(II) diacetate	200-755-8	71-48-7
130	2-Methoxyethanol	203-713-7	109-86-4
131	Chromium trioxide	215-607-8	1333-82-0

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No.	Substance Name	EC Number	CAS Number
132	Cobalt(II) sulphate	233-334-2	10124-43-3
133	Cobalt(II) carbonate	208-169-4	513-79-1
134	Cobalt(II) dinitrate	233-402-1	10141-05-6
135	Potassium chromate	232-140-5	7789-00-6
136	Ammonium dichromate	232-143-1	7789/9/5
137	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3
138	Sodium chromate	231-889-5	7775/11/3
139	Potassium dichromate	231-906-6	7778-50-9
140	Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1
141	Trichloroethylene	201-167-4	1979/1/6
142	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
143	Acrylamide	201-173-7	1979/6/1
144	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
145	Anthracene oil, anthracene-low	292-604-8	90640-82-7
146	Diisobutyl phthalate	201-553-2	84-69-5
147	Anthracene oil, anthracene paste	292-603-2	90640-81-6
148	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8
149	Lead chromate	231-846-0	7758-97-6
150	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
151	Pitch, coal tar, high temp.	266-028-2	65996-93-2
152	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4
153	Anthracene oil	292-602-7	90640-80-5
154	2,4-Dinitrotoluene	204-450-0	121-14-2
155	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8



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No.	Substance Name	EC Number	CAS Number
156	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
157	Lead hydrogen arsenate	232-064-2	7784-40-9
158	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9
159	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9
160	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9
161	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2
162	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
163	Diarsenic trioxide	215-481-4	1327-53-3
164	Triethyl arsenate	427-700-2	15606-95-8
165	Diarsenic pentaoxide	215-116-9	1303-28-2
166	Anthracene	204-371-1	120-12-7
167	Dibutyl phthalate (DBP)	201-557-4	84-74-2
168	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)
169	4,4'-isopropylidenediphenol (bisphenol A; BPA)	201-245-8	80-05-7
170	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	(335-76-2, 3830-45-3 & 3108-42-7)
171	Benzo[a]pyrene	200-028-5	50-32-8
172	4-tert-pentylphenol (PTAP)	201-280-9	80-46-6
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-sulphonic acid Its salts (PFHxS)	206-587-1	355-46-4
175	Chrysene	205-923-4	218-01-9

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No.	Substance Name	EC Number	CAS Number
176	Benz[a]anthracene	200-280-6	56-55-3
177	Cadmium nitrate	233-710-6	10325-94-7
178	Cadmium hydroxide	244-168-5	21041-95-2
179	Cadmium carbonate	208-168-9	513-78-0
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and	-	-
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-	-	-

Company Name: Zhejiang Rectron Electronic Co., Ltd.

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Date: 01-Feb-2018

