



REACH Certificate of Compliance

Declaration

This is to certify that all PacketLight Networks telecommunication equipment complies with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

(EC) 1907/2006 Regulation Compliance

This is to certify that all PacketLight Networks products comply with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006. PacketLight Networks meets all REACH requirements and is committed to provide customers with information regarding substances of very high concern (SVHC) present in our products above 0.1% concentration, according to REACH requirements and maintained to the last known update.

Content of Compliance

- 173 substances listed in SVHC list. For more information, refer to the following pages.
- Annex XVII: Restrictions of the manufacture, placing on the market and use of certain dangerous substances, preparations and articles

Important Note: This certificate of compliance is provided by PacketLight Networks based on declarations provided by third parties. This information is accurate to the best of PacketLight Networks knowledge.

Name: Amnon Volfovich

Signature: 

Role: QC Manager

Date: January 23, 2017

SVHC list

#	SVHC Substance Name	EC Number	CAS Number	Inclusion Date
1	Triethyl arsenate	427-700-2	15606-95-8	28/10/2008
2	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	28/10/2008
3	Lead hydrogen arsenate	232-064-2	7784-40-9	28/10/2008
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4, 221-695-9	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	28/10/2008
5	Dibutyl phthalate (DBP)	201-557-4	84-74-2	28/10/2008
6	Diarsenic trioxide	215-481-4	1327-53-3	28/10/2008
7	Diarsenic pentaoxide	215-116-9	1303-28-2	28/10/2008
8	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	28/10/2008
9	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	28/10/2008
10	Anthracene	204-371-1	120-12-7	28/10/2008
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28/10/2008
12	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	28/10/2008
13	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	28/10/2008
14	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	13/01/2010
15	Pitch, coal tar, high temp.	266-028-2	65996-93-2	13/01/2010
16	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	13/01/2010
17	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	13/01/2010
18	Lead chromate	231-846-0	7758-97-6	13/01/2010
19	Diisobutyl phthalate	201-553-2	84-69-5	13/01/2010
20	Anthracene oil, anthracene-low	292-604-8	90640-82-7	13/01/2010
21	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	13/01/2010
22	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	13/01/2010
23	Anthracene oil, anthracene paste	292-603-2	90640-81-6	13/01/2010
24	Anthracene oil	292-602-7	90640-80-5	13/01/2010
25	2,4-Dinitrotoluene	204-450-0	121-14-2	13/01/2010

#	SVHC Substance Name	EC Number	CAS Number	Inclusion Date
26	Acrylamide	201-173-7	79-06-1	30/03/2010
27	Trichloroethylene	201-167-4	79-01-6	18/06/2010
28	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18/06/2010
29	Sodium chromate	231-889-5	7775-11-3	18/06/2010
30	Potassium dichromate	231-906-6	7778-50-9	18/06/2010
31	Potassium chromate	232-140-5	7789-00-6	18/06/2010
32	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	18/06/2010
33	Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	18/06/2010
34	Ammonium dichromate	232-143-1	7789-9-5	18/06/2010
35	Cobalt(II) sulphate	233-334-2	10124-43-3	15/12/2010
36	Cobalt(II) dinitrate	233-402-1	10141-05-6	15/12/2010
37	Cobalt(II) diacetate	200-755-8	71-48-7	15/12/2010
38	Cobalt(II) carbonate	208-169-4	513-79-1	15/12/2010
39	Chromium trioxide	215-607-8	1333-82-0	15/12/2010
40	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	15/12/2010
41	2-Methoxyethanol	203-713-7	109-86-4	15/12/2010
42	2-Ethoxyethanol	203-804-1	110-80-5	15/12/2010
43	Strontium chromate	232-142-6	7789-6-2	20/06/2011
44	Hydrazine	206-114-9	302-01-2, 7803-57-8	20/06/2011
45	2-Ethoxyethyl acetate	203-839-2	111-15-9	20/06/2011
46	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	20/06/2011
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20/06/2011
48	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	20/06/2011
49	1,2,3-trichloropropane	202-486-1	96-18-4	20/06/2011
50	Cobalt dichloride	231-589-4	7646-79-9	20/06/2011 - 28/10/2008

#	SVHC Substance Name	EC Number	CAS Number	Inclusion Date
51	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 18% by weight	-	-	19/12/2011
52	Trilead diarsenate	222-979-5	3687-31-8	19/12/2011
53	Potassium hydroxyoctaoxodizincatedi-chromate	234-329-8	11103-86-9	19/12/2011
54	Phenolphthalein	201-004-7	77-09-8	19/12/2011
55	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19/12/2011
56	N,N-dimethylacetamide (DMAC)	204-826-4	127-19-5	19/12/2011
57	Lead styphnate	239-290-0	15245-44-0	19/12/2011
58	Lead dipicrate	229-335-2	6477-64-1	19/12/2011
59	Lead diazide, Lead azide	236-542-1	13424-46-9	19/12/2011
60	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19/12/2011
61	Dichromium tris(chromate)	246-356-2	24613-89-6	19/12/2011
62	Calcium arsenate	231-904-5	7778-44-1	19/12/2011
63	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19/12/2011
64	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19/12/2011
65	Arsenic acid	231-901-9	7778-39-4	19/12/2011

#	SVHC Substance Name	EC Number	CAS Number	Inclusion Date
66	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-	-	19/12/2011
67	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19/12/2011
68	2-Methoxyaniline,o-Anisidine	201-963-1	90-04-0	19/12/2011
69	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	19/12/2011
70	1,2-Dichloroethane	203-458-1	107-06-2	19/12/2011
71	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)]	229-851-8	6786-83-0	18/06/2012
72	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	18/06/2012
73	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	18/06/2012
74	Formamide	200-842-0	75-12-7	18/06/2012
75	Diboron trioxide	215-125-8	1303-86-2	18/06/2012
76	[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	18/06/2012
77	[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	18/06/2012

#	SVHC Substance Name	EC Number	CAS Number	Inclusion Date
78	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	18/06/2012
79	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 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	18/06/2012
80	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	18/06/2012
81	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	18/06/2012
82	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	18/06/2012
83	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	203-977-3	112-49-2	18/06/2012
84	Trilead dioxide phosphonate	235-252-2	12141-20-7	19/12/2012
85	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	19/12/2012
86	Tricosafuorododecanoic acid	206-203-2	307-55-1	19/12/2012
87	Tetralead trioxide sulphate	235-380-9	12202-17-4	19/12/2012
88	Tetraethyllead	201-075-4	78-00-2	19/12/2012
89	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	19/12/2012
90	Silicic acid, lead salt	234-363-3	11120-22-2	19/12/2012
91	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	19/12/2012
92	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	19/12/2012
93	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	19/12/2012
94	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	19/12/2012
95	Orange lead (lead tetroxide)	215-235-6	1314-41-6	19/12/2012
96	o-Toluidine	202-429-0	95-53-4	19/12/2012
97	o-aminoazotoluene	202-591-2	97-56-3	19/12/2012
98	N-pentyl-isopentylphthalate	-	776297-69-9	19/12/2012
99	N-methylacetamide	201-182-6	79-16-3	19/12/2012

#	SVHC Substance Name	EC Number	CAS Number	Inclusion Date
100	N,N-dimethylformamide	200-679-5	68-12-2	19/12/2012
101	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	19/12/2012
102	Methoxyacetic acid	210-894-6	625-45-6	19/12/2012
103	Lead titanium zirconium oxide	235-727-4	12626-81-2	19/12/2012
104	Lead titanium trioxide	235-038-9	12060-00-3	19/12/2012
105	Lead oxide sulfate	234-853-7	12036-76-9	19/12/2012
106	Lead monoxide (lead oxide)	215-267-0	1317-36-8	19/12/2012
107	Lead dinitrate	233-245-9	10099-74-8	19/12/2012
108	Lead cyanamidate	244-073-9	20837-86-9	19/12/2012
109	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	19/12/2012
110	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	19/12/2012
111	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	19/12/2012
112	Henicosafuoroundecanoic acid	218-165-4	2058-94-8	19/12/2012
113	Furan	203-727-3	110-00-9	19/12/2012
114	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	19/12/2012
115	Dioxobis(stearato)trilead	235-702-8	12578-12-0	19/12/2012
116	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	19/12/2012
117	Dimethyl sulphate	201-058-1	77-78-1	19/12/2012
118	Diisopentylphthalate	210-088-4	605-50-5	19/12/2012
119	Diethyl sulphate	200-589-6	64-67-5	19/12/2012
120	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	19/12/2012
121	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3	19/12/2012
122	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	19/12/2012

#	SVHC Substance Name	EC Number	CAS Number	Inclusion Date
123	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	19/12/2012
124	Biphenyl-4-ylamine	202-177-1	92-67-1	19/12/2012
125	Acetic acid, lead salt, basic	257-175-3	51404-69-4	19/12/2012
126	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	19/12/2012
127	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	19/12/2012
128	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]	-	-	19/12/2012
129	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	19/12/2012
130	4-Aminoazobenzene	200-453-6	60-09-3	19/12/2012
131	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	19/12/2012
132	4,4'-oxydianiline and its salts	202-977-0	101-80-4	19/12/2012
133	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	19/12/2012
134	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	19/12/2012
135	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	19/12/2012
136	1,2-Diethoxyethane	211-076-1	629-14-1	19/12/2012
137	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	19/12/2012
138	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	20/06/2013
139	Dipentyl phthalate (DPP)	205-017-9	131-18-0	20/06/2013
140	Cadmium oxide	215-146-2	1306-19-0	20/06/2013
141	Cadmium	231-152-8	7440-43-9	20/06/2013
142	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	20/06/2013

#	SVHC Substance Name	EC Number	CAS Number	Inclusion Date
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]	-	-	20/06/2013
144	Trixylyl phosphate	246-677-8	25155-23-1	16/12/2013
145	Lead di(acetate)	206-104-4	301-04-2	16/12/2013
146	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	16/12/2013
147	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	16/12/2013
148	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	16/12/2013
149	Dihexyl phthalate	201-559-5	84-75-3	16/12/2013
150	Cadmium sulphide	215-147-8	1306-23-6	16/12/2013
151	Sodium peroxometaborate	231-556-4	7632-4-4,	16/06/2014
152	Sodium perborate, perboric acid, sodium salt	239-172-9, 234-390-0		16/06/2014
153	Cadmium chloride	233-296-7	10108-64-2	16/06/2014
154	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	271-093-5	68515-50-4	16/06/2014
155	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)			17/12/2014
156	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	17/12/2014
157	Cadmium fluoride	232-222-0	7790-79-6	17/12/2014
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	17/12/2014
159	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	17/12/2014

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160	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	17/12/2014
161	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	17/12/2014; 28/10/2008
162	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]			15/06/2015
163	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	15/06/2015
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1, 21049-39-8, 4149-60-4	17/12/2015
165	1,3-propanesultone	214-317-9	1120-71-4	17/12/2015
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	17/12/2015
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	17/12/2015
168	Nitrobenzene	202-716-0	98-95-3	17/12/2015
169	Benzo[def]chrysene	200-028-5	50-32-8	20/06/2016
170	p-(1,1-dimethylpropyl)phenol (PTAP)	201-280-9	80-46-6	01/12/2017
171	4-heptylphenol, branched and linear (4-HPbl)	-	-	01/12/2017
172	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2	01/12/2017
173	4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7	01/12/2017