

January 30, 2019

**SUBJECT: Declaration of EU RoHS Compliance**

We, Pacer Technology, hereby declare that our products indicated below are in full compliance with EU Directive 2011/65/EU (RoHS 2), with respect to the following substances:

- 1) Lead (Pb),
- 2) Mercury (Hg),
- 3) Cadmium (Cd),
- 4) Hexavalent chromium (Cr (VI)),
- 5) Polybrominated biphenyls (PBB) and
- 6) Polybrominated diphenyl ethers (PBDE).

Per RoHS 2 Recast

- 7) Bis(2-ethylhexyl) phthalate (DEHP)
- 8) Benzyl butyl phthalate (BBP)
- 9) Dibutyl phthalate (DBP)
- 10) Hexabromocyclododecan (HBCDD)

We also declare that our products indicated below are in full compliance with EU Directive 2003/11/EC, with respect to the following substances:

- 1) pentabromodiphenyl ether (pentaBDE) and
- 2) octabromo-diphenyl ether (octaBDE).

**Pacer Technology Product Part Numbers/ID:**

11740122\_FG06180, 11740124\_FG06182, 11740125\_FG06183

Please contact your sales representative or customer service with questions.

Regards,

Pacer Technology  
Regulatory Department  
Phone: (909) 987-0550  
Fax: (909) 605-6111

January 30, 2019

**SUBJECT: Declaration of REACH and Substances of Very High Concern (SVHC)**

Regarding REACH and SVHC, it is hereby declared that Pacer Technology does not intentionally introduce any of the substances listed in the Candidate List of Substances of Very High Concern (listed on the attached table) to their products.

Pacer Technology does not perform lab testing verification as none of the substances on the candidate list are "intentionally introduced" into our product formulas.

**Pacer Technology Product Part Numbers/ID:**

11740122\_FG06180, 11740124\_FG06182, 11740125\_FG06183

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Addendum: updated on January 30, 2019.

Substance name	EC No.	CAS No.
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6
Benzo[k]fluoranthene	205-916-6	207-08-9
Fluoranthene	205-912-4	206-44-0; 93951-69-0
Phenanthrene	201-581-5	85-01-8
Pyrene	204-927-3	129-00-0; 1718-52-1
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	209-008-0	552-30-7
Benzo[ghi]perylene	205-883-8	191-24-2
Decamethylcyclopentasiloxane	208-764-9	541-02-6
Dicyclohexyl phthalate	201-545-9	84-61-7
Disodium octaborate	234-541-0	12008-41-2
Dodecamethylcyclohexasiloxane	208-762-8	540-97-6
Ethylenediamine	203-468-6	107-15-3
Lead	231-100-4	7439-92-1
Octamethylcyclotetrasiloxane	209-136-7	556-67-2
Terphenyl, hydrogenated	262-967-7	61788-32-7
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" <sup>TM</sup> )	-	-
rel-(1R,4S,4aS,6aR,7R,10S,10aS,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene	-	-
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	236-948-9	13560-89-9
rel-(1R,4S,4aS,6aS,7S,10R,10aR,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene	-	-
Benz[a]anthracene	200-280-6	56-55-3; 1718-53-2
Cadmium carbonate	208-168-9	513-78-0
Cadmium hydroxide	244-168-5	21041-95-2
Cadmium nitrate	233-710-6	10325-94-7; 10022-68-1
Chrysene	205-923-4	218-01-9; 1719-03-5
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-
Perfluorohexane-1-sulphonic acid and its salts	-	-
4,4'-isopropylidenediphenol	201-245-8	80-05-7
4-heptylphenol, branched and linear	-	-
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	-
Decanoic acid, nonadecafluoro-, sodium salt	-	3830-45-3
Ammonium nonadecafluorodecanoate	221-470-5	3108-42-7
Nonadecafluorodecanoic acid	206-400-3	335-76-2
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6
Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8
1,3-propanesultone	214-317-9	1120-71-4

2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
Nitrobenzene	202-716-0	98-95-3
Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	-
Ammonium salts of perfluorononan-1-oic-acid	-	-, 4149-60-4
Perfluorononan-1-oic-acid	206-801-3	375-95-1
Sodium salts of perfluorononan-1-oic-acid	-	-, 21049-39-8
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	-
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	272-013-1	68648-93-1
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	271-094-0	68515-51-5
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]	-	-
5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1
Cadmium fluoride	232-222-0	7790-79-6
Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6
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)	-	-
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
Cadmium chloride	233-296-7	10108-64-2
Sodium perborate, perboric acid, sodium salt	-	-
Perboric acid, sodium salt	234-390-0	11138-47-9
Sodium perborate	239-172-9	15120-21-5
Sodium peroxometaborate	231-556-4	7632-04-4
Cadmium sulphide	215-147-8	1306-23-6
Dihexyl phthalate	201-559-5	84-75-3
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
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
Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7
Lead di(acetate)	206-104-4	301-04-2
Trixylyl phosphate	246-677-8	25155-23-1
4-Nonylphenol, branched and linear, ethoxylated	-	-
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1
Cadmium	231-152-8	7440-43-9
Cadmium oxide	215-146-2	1306-19-0
Dipentyl phthalate (DPP)	205-017-9	131-18-0
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0
1,2-diethoxyethane	211-076-1	629-14-1

1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
4,4'-oxydianiline and its salts	-	-
4,4'-oxydianiline	202-977-0	101-80-4
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-
4-aminoazobenzene	200-453-6	60-09-3
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
4-Nonylphenol, branched and linear	-	-
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
Acetic acid, lead salt, basic	257-175-3	51404-69-4
Biphenyl-4-ylamine	202-177-1	92-67-1
Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5
Cyclohexane-1,2-dicarboxylic anhydride	-	-
Cyclohexane-1,2-dicarboxylic anhydride	201-604-9	85-42-7
trans-cyclohexane-1,2-dicarboxylic anhydride	238-009-9	14166-21-3
cis-cyclohexane-1,2-dicarboxylic anhydride	236-086-3	13149-00-3
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
Diethyl sulphate	200-589-6	64-67-5
Diisopentyl phthalate	210-088-4	605-50-5
Dimethyl sulphate	201-058-1	77-78-1
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
Dioxobis(stearato)trilead	235-702-8	12578-12-0
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
Furan	203-727-3	110-00-9
Henicosafuoroundecanoic acid	218-165-4	2058-94-8
Heptacosafuorotetradecanoic acid	206-803-4	376-06-7
Hexahydromethylphthalic anhydride	-	-
Hexahydro-4-methylphthalic anhydride	243-072-0	19438-60-9
Hexahydro-3-methylphthalic anhydride	260-566-1	57110-29-9
Hexahydro-1-methylphthalic anhydride	256-356-4	48122-14-1
Hexahydromethylphthalic anhydride	247-094-1	25550-51-0
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
Lead cyanamidate	244-073-9	20837-86-9
Lead dinitrate	233-245-9	10099-74-8
Lead monoxide (lead oxide)	215-267-0	1317-36-8
Lead oxide sulfate	234-853-7	12036-76-9
Lead titanium trioxide	235-038-9	12060-00-3
Lead titanium zirconium oxide	235-727-4	12626-81-2
Methoxyacetic acid	210-894-6	625-45-6
Methyloxirane (Propylene oxide)	200-879-2	75-56-9
N,N-dimethylformamide	200-679-5	68-12-2
N-methylacetamide	201-182-6	79-16-3
N-pentyl-isopentylphthalate	-	776297-69-9
o-aminoazotoluene	202-591-2	97-56-3
o-toluidine	202-429-0	95-53-4
Orange lead (lead tetroxide)	215-235-6	1314-41-6

Pentacosafuorotridecanoic acid	276-745-2	72629-94-8
Pentalead tetraoxide sulphate	235-067-7	12065-90-6
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped	272-271-5	68784-75-8
Silicic acid, lead salt	234-363-3	11120-22-2
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
Tetraethyllead	201-075-4	78-00-2
Tetralead trioxide sulphate	235-380-9	12202-17-4
Tricosafuorododecanoic acid	206-203-2	307-55-1
Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6
Trilead dioxide phosphonate	235-252-2	12141-20-7
1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9
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
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5
Diboron trioxide	215-125-8	1303-86-2
Formamide	200-842-0	75-12-7
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0
1,2-dichloroethane	203-458-1	107-06-2
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4
2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9
Aluminosilicate Refractory Ceramic Fibres	-	-
Arsenic acid	231-901-9	7778-39-4
Bis(2-methoxyethyl) ether	203-924-4	111-96-6
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
Calcium arsenate	231-904-5	7778-44-1
Dichromium tris(chromate)	246-356-2	24613-89-6
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4
Lead diazide, Lead azide	236-542-1	13424-46-9
Lead dipicrate	229-335-2	6477-64-1
Lead styphnate	239-290-0	15245-44-0
N,N-dimethylacetamide	204-826-4	127-19-5
Pentazinc chromate octahydroxide	256-418-0	49663-84-5
Phenolphthalein	201-004-7	77-09-8
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9
Trilead diarsenate	222-979-5	3687-31-8
Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-
1,2,3-trichloropropane	202-486-1	96-18-4

1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4
1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4
2-ethoxyethyl acetate	203-839-2	111-15-9
Hydrazine	206-114-9	302-01-2, 7803-57-8
Strontium chromate	232-142-6	7789-06-2
2-ethoxyethanol	203-804-1	110-80-5
2-methoxyethanol	203-713-7	109-86-4
Acids generated from chromium trioxide and their oligomers	-	-
Oligomers of chromic acid and dichromic acid	-	-
Chromic acid	231-801-5	13530-68-2
Dichromic acid	236-881-5	7738-94-5
Chromium trioxide	215-607-8	1333-82-0
Cobalt(II) carbonate	208-169-4	513-79-1
Cobalt(II) diacetate	200-755-8	71-48-7
Cobalt(II) dinitrate	233-402-1	10141-05-6
Cobalt(II) sulphate	233-334-2	10124-43-3
Ammonium dichromate	232-143-1	7789-09-5
Boric acid	-	-
Boric acid, crude natural	234-343-4	11113-50-1
Boric acid	233-139-2	10043-35-3
Disodium tetraborate, anhydrous	215-540-4	12179-04-3, 1303-96-4, 1330-43-4
Potassium chromate	232-140-5	7789-00-6
Potassium dichromate	231-906-6	7778-50-9
Sodium chromate	231-889-5	7775-11-3
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
Trichloroethylene	201-167-4	79-01-6
Acrylamide	201-173-7	79-06-1
2,4-dinitrotoluene	204-450-0	121-14-2
Anthracene oil	292-602-7	90640-80-5
Anthracene oil, anthracene paste	292-603-2	90640-81-6
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4
Anthracene oil, anthracene-low	292-604-8	90640-82-7
Diisobutyl phthalate	201-553-2	84-69-5
Lead chromate	231-846-0	7758-97-6
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
Pitch, coal tar, high-temp.	266-028-2	65996-93-2
Tris(2-chloroethyl) phosphate	204-118-5	115-96-8
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
Anthracene	204-371-1	120-12-7
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7
Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9
Cobalt dichloride	231-589-4	7646-79-9

Diarsenic pentaoxide	215-116-9	1303-28-2
Diarsenic trioxide	215-481-4	1327-53-3
Dibutyl phthalate (DBP)	201-557-4	84-74-2
Hexabromocyclododecane (HBCDD)	-	-
gamma-hexabromocyclododecane	-	134237-52-8
beta-hexabromocyclododecane	-	134237-51-7
Hexabromocyclododecane	247-148-4	25637-99-4
1,2,5,6,9,10-hexabromocyclodecane	221-695-9	3194-55-6
alpha-hexabromocyclododecane	-	134237-50-6
Lead hydrogen arsenate	232-064-2	7784-40-9
Sodium dichromate	234-190-3	10588-01-9, 7789-12-0
Triethyl arsenate	427-700-2	15606-95-8