PACER TECHNOLOGY

Corporate Office: 3281 E. Guasti Road, Suite 260, Ontario, CA, 91761 USA
Sales Office: 11201 Jersey Blvd, Rancho Cucamonga, CA, 91730 USA

T: (909) 987-0550 • (800) 538-3091 • F: (909) 605-6111
www.pacertechnology.com

March 27, 2018

**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 pthalate (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:**

T-QS

Please contact your sales representative or customer service with questions.

Best regards,

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

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March 27, 2018

**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 (per the January 15, 2017, ECHA update) to the following products:

**Pacer Technology Product Part Number(s)/ID:**
T-QS

Pacer Technology does not perform lab testing verification as none of the substances on the candidate list are "intentionally introduced" into the formula of the products listed above.

Please contact your sales representative or customer service with any questions you may have.

Best regards,

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Substances of Very High Concern (SVHC) list: updated on March 27, 2018

| Name | EC no. | CAS no. |
|---|---|---|
| 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"™) | - | - |
| 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 | 10022-68-1, 10325-94-7 |
| 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 | - | - |
| Ammonium nonadecafluorodecanoate | 221-470-5 | 3108-42-7 |
| Nonadecafluorodecanoic acid | 206-400-3 | 335-76-2 |
| Decanoic acid, nonadecafluoro-, sodium salt | - | 3830-45-3 |
| 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 |

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| | | |
|---|---|---|
| Cadmium chloride | 233-296-7 | 10108-64-2 |
| Sodium perborate, perboric acid, sodium salt | - | - |
| Sodium perborate | 239-172-9 | 15120-21-5 |
| Perboric acid, sodium salt | 234-390-0 | 11138-47-9 |
| 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 | - | - |
| cis-cyclohexane-1,2-dicarboxylic anhydride | 236-086-3 | 13149-00-3 |
| Cyclohexane-1,2-dicarboxylic anhydride | 201-604-9 | 85-42-7 |
| trans-cyclohexane-1,2-dicarboxylic anhydride | 238-009-9 | 14166-21-3 |
| 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 |
| Henicosafluoroundecanoic acid | 218-165-4 | 2058-94-8 |
| Heptacosafluorotetradecanoic acid | 206-803-4 | 376-06-7 |
| Hexahydromethylphthalic anhydride | - | - |
| Hexahydro-1-methylphthalic anhydride | 256-356-4 | 48122-14-1 |

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|---|---|---|
| Hexahydromethylphthalic anhydride | 247-094-1 | 25550-51-0 |
| Hexahydro-4-methylphthalic anhydride | 243-072-0 | 19438-60-9 |
| Hexahydro-3-methylphthalic anhydride | 260-566-1 | 57110-29-9 |
| 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 |
| Pentacosafluorotridecanoic 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 (H2Si2O5), 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 |
| Tricosafluorododecanoic 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-bis(2-methoxyethoxy)ethane (TEGDME,triglyme) | 203-977-3 | 112-49-2 |
| 1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 110-71-4 |
| 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 |

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|---|---|---|
| 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 | - | - |
| Dichromic acid | 236-881-5 | 7738-94-5 |
| Oligomers of chromic acid and dichromic acid | - | - |
| Chromic acid | 231-801-5 | 13530-68-2 |
| 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 |

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| 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) | - | - |
| 1,2,5,6,9,10-hexabromocyclodecane | 221-695-9 | 3194-55-6 |
| gamma-hexabromocyclododecane | - | 134237-52-8 |
| Hexabromocyclododecane | 247-148-4 | 25637-99-4 |
| alpha-hexabromocyclododecane | - | 134237-50-6 |
| beta-hexabromocyclododecane | - | 134237-51-7 |
| 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 |