

Compliance Statement of "REACH"

The European Chemical Agency (ECHA) has published the SVHC Candidate List. Once a substance is added to the Candidate List, REACH imposes immediate obligations on manufacturers and importers to declare the substances if present. Article 33(1) of the REACH Regulation states that manufacturers and importers of articles(products) are required to notify their customers of the presence of any Substances of Very High Concern (SVHC) in their products exceeding 0.1% by weight and provide instructions on safe use of the product. Products manufactured by Paceleader Industrial Co.,Ltd. may contain substance(s) listed below in concentrations greater than 0.1% by weight. Detailed declaration can be found below.

First "15 SVHC" added to Candidate List (Published on 28th Oct, 2008)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-----------|------------|---------------------------|
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 287-476-5 | 85535-84-8 | No |
| Anthracene | 204-371-1 | 120-12-7 | No |
| Benzyl butyl phthalate | 201-622-7 | 85-68-7 | No |
| Bis (2-ethyl(hexyl)phthalate) (DEHP) | 204-211-0 | 117-81-7 | No |
| Bis (tributyltin) oxide | 200-268-0 | 56-35-9 | No |
| Cobalt dichloride | 231-589-4 | 7646-79-9 | No |
| 4,4 – Diaminodiphenylmethane | 202-974-4 | 101-77-9 | No |
| Diarsenic pentaoxide | 215-116-9 | 1303-28-2 | No |
| Diarsenic trioxide | 215-481-4 | 1327-53-3 | No |
| Dibutyl phthalate | 201-557-4 | 84-74-2 | No |
| Hexabromocyclododecane (HBCDD) | 247-148-4 | 25637-99-4 | No |
| Lead hydrogen arsenate | 232-064-2 | 7784-40-9 | No |
| Sodium dichromate | 234-190-3 | 10588-01-9 | No |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 201-329-4 | 81-15-2 | No |
| Triethyl arsenate | 427-700-2 | 15606-95-8 | No |

Second “12 SVHC” added to Candidate List (Published on 13th Jan, 2010)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-----------|------------|---------------------------|
| Anthracene oil | 292-602-7 | 90640-80-5 | No |
| Anthracene oil, anthracene paste, distn. lights | 295-278-5 | 91995-17-4 | No |
| Anthracene oil, anthracene paste,anthracene fraction | 295-275-9 | 91995-15-2 | No |
| Anthracene oil, anthracene-low | 292-604-8 | 90640-82-7 | No |
| Anthracene oil, anthracene paste | 292-603-2 | 90640-81-6 | No |
| Pitch, coal tar, high temp | 266-028-2 | 65996-93-2 | No |
| Aluminosilicate Refractory Ceramic Fibres (<i>Remark i</i>) | / | / | No |
| ZirconiaAluminosilicate, Refractory Ceramic Fibres (<i>Remark ii</i>) | / | / | No |
| 2,4-Dinitrotoluene | 204-450-0 | 121-14-2 | No |
| Diisobutyl phthalate | 201-553-2 | 84-69-5 | No |
| Lead chromate | 231-846-0 | 7758-97-6 | No |
| Lead chromate molybdatesulphate red (C.I. Pigment Red104) | 235-759-9 | 12656-85-8 | No |
| Lead sulfochromate yellow (C.I.Pigment Yellow 34) | 215-693-7 | 1344-37-2 | No |
| Tris (2-chloroethyl) phosphate | 204-118-5 | 115-96-8 | No |

Third “1 SVHC” added to Candidate List (Published on 30th Mar, 2010)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|----------------|-----------|---------|---------------------------|
| Acrylamide | 201-173-7 | 79-06-1 | No |

Fourth “8 SVHC” added to Candidate List (Published on 18th Jun, 2010)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-------------------------|--|---------------------------|
| Trichloroethylene | 201-167-4 | 79-01-6 | No |
| Boric acid | 233-139-2/ 234-343-4 | 10043-35-3/ 11113-50-1 | No |
| Disodium tetraborate, anhydrous | 215-540-4 | 1303-96-4/ 1330-43-4/ 12179-04-3 | No |
| Tetraboron disodium heptaoxide, hydrate | 235-541-3 | 12267-73-1 | No |
| Sodium chromate | 231-889-5 | 11/3/7775 | No |
| Potassium chromate | 232-140-5 | 7789-00-6 | No |
| Ammonium dichromate | 232-143-1 | 9/5/7789 | No |
| Potassium dichromate | 231-906-6 | 7778-50-9 | No |

Fifth “8 SVHC” added to Candidate List (Published on 15th Dec, 2010)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|--|------------------------------|-------------------------------|---------------------------|
| 2-Ethoxyethanol | 203-804-1 | 110-80-5 | No |
| 2-Methoxyethanol | 203-713-7 | 109-86-4 | No |
| Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid | 231-801-5 -- 236-881-5 | 7738-94-5 -- 13530-68-2 | No |
| Chromium trioxide | 215-607-8 | 1333-82-0 | No |
| Cobalt (II) carbonate | 208-169-4 | 513-79-1 | No |
| Cobalt (II) diacetate | 200-755-8 | 71-48-7 | No |
| Cobalt (II) dinitrate | 233-402-1 | 10141-05-6 | No |
| Cobalt (II) sulphate | 233-334-2 | 10124-43-3 | No |

Sixth “7 SVHC” added to Candidate List (Published on 20th Jun, 2011)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|--|-----------|------------|---------------------------|
| 1,2,3-Trichloropropane | 202-486-1 | 96-18-4 | No |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 276-158-1 | 71888-89-6 | No |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkylesters | 271-084-6 | 68515-42-4 | No |
| 1-Methyl-2-pyrrolidone | 212-828-1 | 872-50-4 | No |
| 2-Ethoxyethyl acetate | 203-839-2 | 111-15-9 | No |
| Hydrazine | 206-114-9 | 302-01-2 | No |
| Strontium chromate | 232-142-6 | 7789-06-2 | No |

Seventh “20 SVHC” added to Candidate List (Published on 19th Dec, 2011)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|------------------------------------|-----------|------------|---------------------------|
| 4-(1,1,3,3-tetramethylbutyl)phenol | 205-426-2 | 140-66-9 | No |
| N,N-dimethylacetamide | 204-826-4 | 127-19-5 | No |
| Phenolphthalein | 201-004-7 | 77-09-8 | No |
| Lead diazide, Lead azide | 236-542-1 | 13424-46-9 | No |
| Lead dipicrate | 229-335-2 | 6477-64-1 | No |
| 1,2-dichloroethane | 203-458-1 | 107-06-2 | No |
| Calcium arsenate | 231-904-5 | 7778-44-1 | No |
| Dichromium tris(chromate) | 246-356-2 | 24613-89-6 | No |

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|---|-----------|------------|----|
| 2-Methoxyaniline; o-Anisidine | 201-963-1 | 90-04-0 | No |
| Pentazinc chromate octahydroxide | 256-418-0 | 49663-84-5 | No |
| Arsenic acid | 231-901-9 | 7778-39-4 | No |
| Potassium hydroxyoctaoxodizincatedichromate | 234-329-8 | 11103-86-9 | No |
| Formaldehyde, oligomeric reaction products with aniline | 500-036-1 | 25214-70-4 | No |
| Lead styphnate | 239-290-0 | 15245-44-0 | No |
| Trilead diarsenate | 222-979-5 | 3687-31-8 | No |
| Zirconia Aluminosilicate Refractory Ceramic Fibres | -- | -- | No |
| Bis(2-methoxyethyl) phthalate | 204-212-6 | 117-82-8 | No |
| Aluminosilicate Refractory Ceramic Fibres | -- | -- | No |
| Bis(2-methoxyethyl) ether | 203-924-4 | 111-96-6 | No |
| 2,2'-dichloro-4,4'-methylenedianiline | 202-918-9 | 101-14-4 | No |

Eighth "13 SVHC" added to Candidate List (Published on 18th Jun, 2012)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-------------|--------------|----------------------------------|
| 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 (ECNo. 202-959-2)] | 229-851-8 | 6786-83-0 | No |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 202-959-2 | 101-61-1 | No |
| 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 | No |
| Diboron trioxide | 215-125-8 | 1303-86-2 | No |
| 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 203-977-3 | 112-49-2 | No |
| 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 | No |
| Lead(II) bis(methanesulfonate) | 401-750-5 | 17570-76-2 | No |
| Formamide | 200-842-0 | 75-12-7 | No |
| [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 | No |
| 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 110-71-4 | No |
| [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 | No |
| 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 219-514-3 | 2451-62-9 | No |
| 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 202-027-5 | 90-94-8 | No |

Ninth "54 SVHC" added to Candidate List (Published on 19th Dec, 2012)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|---|---|---------------------------|
| 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 | No |
| 6-methoxy-m-toluidine (p-cresidine) | 204-419-1 | 120-71-8 | No |
| 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 | No |
| Pyrochlore, antimony lead yellow | 232-382-1 | 8012-00-8 | No |
| Henicosfluoroundecanoic acid | 218-165-4 | 2058-94-8 | No |
| 4-Aminoazobenzene | 200-453-6 | - | No |
| Silicic acid, lead salt | 234-363-3 | 11120-22-2 | No |
| Lead titanium zirconium oxide | 235-727-4 | 12626-81-2 | No |
| Lead monoxide (lead oxide) | 215-267-0 | 1317-36-8 | No |
| o-Toluidine | 202-429-0 | 95-53-4 | No |
| 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 421-150-7 | 143860-04-2 | No |
| Dibutyltin dichloride (DBTC) | 211-670-0 | 683-18-1 | No |
| Lead bis(tetrafluoroborate) | 237-486-0 | 13814-96-5 | No |
| Lead dinitrate | 233-245-9 | 10099-74-8 | No |
| Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped | 272-271-5 | 68784-75-8 | No |
| Trilead bis(carbonate)dihydroxide | 215-290-6 | 1319-46-6 | No |
| 4,4'-methylenedi-o-toluidine | 212-658-8 | 838-88-0 | No |
| Diethyl sulphate | 200-589-6 | 64-67-5 | No |
| Dimethyl sulphate | 201-058-1 | 77-78-1 | No |
| N,N-dimethylformamide | 200-679-5 | - | No |
| 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] | - | - | No |
| 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] | - | - | No |
| Furan | 203-727-3 | 110-00-9 | No |

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|--|-----------|-------------|----|
| Lead oxide sulfate | 234-853-7 | 12036-76-9 | No |
| Lead titanium trioxide | 235-038-9 | 12060-00-3 | No |
| Bis(pentabromophenyl)ether(decabromodiphenyl ether; DecaBDE) | 214-604-9 | 1163-19-5 | No |
| Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 201-861-7 | 88-85-7 | No |
| 1,2-Diethoxyethane | 211-076-1 | 629-14-1 | No |
| N-methylacetamide | 201-182-6 | 79-16-3 | No |
| Tetralead trioxide sulphate | 235-380-9 | 12202-17-4 | No |
| Acetic acid, lead salt, basic | 257-175-3 | 51404-69-4 | No |
| [Phthalato(2-)]dioxotrilead | 273-688-5 | 69011-06-9 | No |
| Tetraethyllead | 201-075-4 | 78-00-2 | No |
| N-pentyl-isopentylphthalate | - | 776297-69-9 | No |
| Pentalead tetraoxide sulphate | 235-067-7 | 12065-90-6 | No |
| Heptacosafuorotetradecanoic acid | 206-803-4 | 376-06-7 | No |
| Tricosafuorododecanoic acid | 206-203-2 | 307-55-1 | No |
| 1-bromopropane (n-propyl bromide) | 203-445-0 | 106-94-5 | No |
| Dioxobis(stearato)trilead | 235-702-8 | 12578-12-0 | No |
| Pentacosafuorotridecanoic acid | 276-745-2 | 72629-94-8 | No |
| Methoxyacetic acid | 210-894-6 | 625-45-6 | No |
| Methyloxirane (Propylene oxide) | 200-879-2 | 75-56-9 | No |
| Trilead dioxide phosphonate | 235-252-2 | 12141-20-7 | No |
| o-aminoazotoluene | 202-591-2 | 97-56-3 | No |
| 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 202-453-1 | 95-80-7 | No |
| Diisopentylphthalate | 210-088-4 | 605-50-5 | No |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 284-032-2 | 84777-06-0 | No |
| Biphenyl-4-ylamine | 202-177-1 | 92-67-1 | No |
| Fatty acids, C16-18, lead salts | 292-966-7 | 91031-62-8 | No |
| Orange lead (lead tetroxide) | 215-235-6 | 1314-41-6 | No |
| 4,4'-oxydianiline and its salts | 202-977-0 | 101-80-4 | No |
| Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 204-650-8 | 123-77-3 | No |
| Sulfurous acid, lead salt, dibasic | 263-467-1 | 62229-08-7 | No |
| Lead cyanamidate | 244-073-9 | 20837-86-9 | No |

Tenth "6 SVHC" added to Candidate List (Published on 20th Jun, 2013)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|----------------|------|-------|---------------------------------|
|----------------|------|-------|---------------------------------|

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|---|-----------|-----------|----|
| Cadmium | 231-152-8 | 7440-43-9 | No |
| Ammonium pentadecafluorooctanoate (APFO) | 223-320-4 | 3825-26-1 | No |
| Pentadecafluorooctanoic acid (PFOA) | 206-397-9 | 335-67-1 | No |
| Dipentyl phthalate (DPP) | 205-017-9 | 131-18-0 | No |
| 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] | - | - | No |
| Cadmium oxide | 215-146-2 | 1306-19-0 | No |

Eleventh "7 SVHC" added to Candidate List (Published on 16th Dec, 2013)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|--|-----------|------------|---------------------------|
| Cadmium sulphide | 215-147-8 | 1306-23-6 | No |
| 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 | No |
| Dihexyl phthalate | 201-559-5 | 84-75-3 | No |
| Imidazolidine-2-thione; (2-imidazoline-2-thiol) | 202-506-9 | 96-45-7 | No |
| Trixylyl phosphate | 246-677-8 | 25155-23-1 | No |
| 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 | No |
| Lead di(acetate) | 206-104-4 | 301-04-2 | No |

Twelfth "4 SVHC" added to Candidate List (Published on 16th Jun, 2014)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-----------|------------|---------------------------|
| 1,2-Benzenedicarboxylic acid, dihexylester, branched and linear | 271-093-5 | 68515-50-4 | No |
| Cadmium chloride | 233-296-7 | 10108-64-2 | No |
| Sodium perborate,perboric acid, sodium salt | 239-172-9 | - | No |
| Sodium peroxometaborate | 231-556-4 | 7632-04-4 | No |

Thirteenth "6 SVHC" added to Candidate List (Published on 17th Dec, 2014)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|--|-----------|------------|---------------------------|
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 247-384-8 | 25973-55-1 | No |
| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) 2-ethylhexyl | 223-346-6 | 3846-71-7 | No |

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|---|-----------|------------|----|
| 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 239-622-4 | 15571-58-1 | No |
| Cadmium fluoride | 232-222-0 | 7790-79-6 | No |
| Cadmium sulphate | 233-331-6 | 10124-36-4 | No |
| 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) | - | - | No |

Fourteenth "2 SVHC" added to Candidate List (Published on 15th June, 2015)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-----------|------------|---------------------------|
| 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) | 271-094-0 | 68515-51-5 | No |
| 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] | - | - | No |

Fifteenth "5 SVHC" added to Candidate List (Published on 17th December, 2015)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-----------|-------------------------------------|---------------------------|
| 1,3-propanesultone | 214-317-9 | 1120-71-4 | No |
| 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 223-383-8 | 3864-99-1 | No |
| 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350) | 253-037-1 | 36437-37-3 | No |
| Nitrobenzene | 202-716-0 | 98-95-3 | No |
| Perfluorononan-1-oic-acid and its sodium and ammonium salts | 206-801-3 | 375-95-1 21049-39-8 4149-60-4 | No |

Sixteenth "1 SVHC" added to Candidate List (Published on 20th June, 2016)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|--------------------|-----------|---------|---------------------------|
| Benzo[def]chrysene | 200-028-5 | 50-32-8 | No |

Seventeenth "4 SVHC" added to Candidate List (Published on 12th January, 2017)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|--|-----------|---------|---------------------------|
| 4,4'-isopropylidenediphenol | 201-245-8 | 80-05-7 | No |
| 4-heptylphenol, branched and linear | - | - | No |
| Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | - | - | No |

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|------------------------------|-----------|---------|----|
| p-(1,1-dimethylpropyl)phenol | 201-280-9 | 80-46-6 | No |
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Eighteenth “1 SVHC” added to Candidate List (Published on 7th July, 2017)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|--|------|-------|---------------------------|
| Perfluorohexane-1-sulphonic acid and its salts | - | - | No |

Nineteenth “7 SVHC” added to Candidate List (Published on 15th January, 2018)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-----------|---------------------------|---------------------------|
| Benz[a]anthracene | 200-280-6 | 56-55-3, 1718-53-2 | No |
| Cadmium carbonate | 208-168-9 | 513-78-0 | No |
| Cadmium hydroxide | 244-168-5 | 21041-95-2 | No |
| Cadmium nitrate | 233-710-6 | 10022-68-1, 10325-94-7 | No |
| Chrysene | 205-923-4 | 218-01-9, 1719-03-5 | No |
| Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca7,15-diene (“Dechlorane Plus”™) | - | - | No |
| Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) | - | - | No |

Twentieth “10 SVHC” added to Candidate List (Published on 27th June, 2018)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|--|-----------|------------|---------------------------|
| Benzene-1,2,4-tricarboxylic acid 1,2 anhydride | 209-008-0 | 552-30-7 | No |
| Benzo[ghi]perylene | 205-883-8 | 191-24-2 | No |
| Decamethylcyclopentasiloxane | 208-764-9 | 541-02-6 | No |
| Dicyclohexyl phthalate | 201-545-9 | 84-61-7 | No |
| Disodium octaborate | 234-541-0 | 12008-41-2 | No |
| Dodecamethylcyclohexasiloxane | 208-762-8 | 540-97-6 | No |
| Ethylenediamine | 203-468-6 | 107-15-3 | No |
| Lead | 231-100-4 | 7439-92-1 | Yes |
| Octamethylcyclotetrasiloxane | 209-136-7 | 556-67-2 | No |
| Terphenyl, hydrogenated | 262-967-7 | 61788-32-7 | No |

Twenty-First “6 SVHC” added to Candidate List (Published on 15th January, 2019)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-----------|------------|---------------------------|
| 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one2, | 239-139-9 | 15087-24-8 | No |
| 2-bis(4'-hydroxyphenyl)-4-methylpentane | 401-720-1 | 6807-17-6 | No |
| Benzo[k]fluoranthene | 205-916-6 | 207-08-9 | No |

| | | | |
|--------------|-----------|-------------------------|----|
| Fluoranthene | 205-912-4 | 206-44-0; 93951-69-0 | No |
| Phenanthrene | 201-581-5 | 85-01-8 | No |
| Pyrene | 204-927-3 | 129-00-0; 1718-52-1 | No |

Twenty-Second “4 SVHC” added to Candidate List (Published on 16th July, 2019)

| Substance Name | EC # | CAS # | Over 0.1% (w/w) Threshold |
|---|-----------|----------|---------------------------|
| 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides | - | - | No |
| 2-methoxyethyl acetate | 203-772-9 | 110-49-6 | No |
| 4-tert-butylphenol | 202-679-0 | 98-54-4 | No |
| Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) | - | - | No |

Remark :

1. Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008, and fulfil the two following conditions:

a) Al₂O₃ and SiO₂ are present within the following concentration ranges:

Al₂O₃: 43.5 – 47 % w/w, and SiO₂: 49.5 – 53.5 % w/w, or

Al₂O₃: 45.5 – 50.5 %w/w, and SiO₂: 48.5 – 54 % w/w,

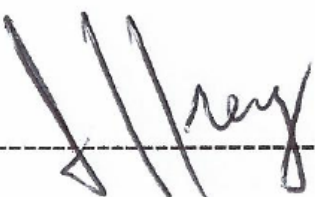
b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (µm)

2. Zirconia Aluminosilicate, Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008, and fulfil the two following conditions:

a) Al₂O₃, SiO₂ and ZrO₂ are present within the following concentration ranges:

Al₂O₃: 35 – 36 % w/w, and SiO₂: 47.5 – 50 % w/w, and ZrO₂: 15 - 17 % w/w,

b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (µm).



Jeffrey / Vice President

Signed for and on behalf of PACELEADER INDUSTRIAL CO.,LTD.