



# Fair-Rite Products Corp.

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*Ferrite Components for the Electronics Industry*

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26 June 2020

## Declaration of Fair-Rite Product Corp.'s Non-Use of SVHCs in Components (re: REACH Regulation (EC 1907/2006))

The components that Fair-Rite Products Corp. supplies do not contain any of the 209 Substances of Very High Concern (SVHCs) identified in the current REACH Regulation (25 June 2020) in their composition or make-up (reference list below). Also, the components that Fair-Rite Products Corp. supplies do not contain any of the dangerous chemical substances, mixtures or articles identified in REACH Annex XIV nor in REACH Annex XVII.

| SUBSTANCE NAME   | CAS NUMBER |
|--|------------|
| Anthracene   | 120-12-7   |
| 4,4'-Diaminodiphenylmethane  | 101-77-9   |
| Dibutyl phthalate  | 84-74-2    |
| Cobalt dichloride  | 7646-79-9  |
| Diarsenic pentaoxide   | 1303-28-2  |
| Diarsenic trioxide   | 1327-53-3  |
| Sodium dichromate  | 7789-12-0  |
| 5-tert-butyl-2,4,6-trinitrom-xylene (musk xylene)  | 81-15-2    |
| Bis (2-ethylhexyl) phthalate (DEHP)  | 117-81-7   |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified   | 25637-99-4 |
| Alkanes,C10-13, chloro (Short Chain Chlorinated Paraffins)   | 85535-84-8 |
| Bis(tributyltin) oxide   | 56-35-9    |
| Lead hydrogen arsenate   | 7784-40-9  |
| Triethyl arsenate  | 15606-95-8 |
| Benzyl butyl phthalate   | 85-68-7    |
| 2,4-Dinitrotoluene   | 121-14-2   |
| Anthracene oil   | 90640-80-5 |
| Anthracene oil, anthracene paste, distn. Lights  | 91995-17-4 |
| Anthracene oil, anthracene paste, anthracene fraction  | 91995-15-2 |
| Anthracene oil, anthracene-low   | 90640-82-7 |
| Anthracene oil, anthracene paste   | 90640-81-6 |
| Diisobutyl phthalate   | 84-69-5    |
| 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 fulfill the three following conditions: a) oxides of aluminum, 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 ( $\mu\text{m}$ ) c) alkaline oxide and alkaline 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 | n/a        |
| 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 fulfill the three following conditions: a) oxides of aluminum 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 ( $\mu\text{m}$ ) c) alkaline oxide and alkaline 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                     | n/a        |
| Lead chromate  | 7758-97-6  |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104)  | 12656-85-8 |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34)   | 1344-37-2  |
| Acrylamide   | 79-06-1    |
| Tris(2-chloroethyl) phosphate  | 115-96-8   |
| Coal tar pitch, high temperature   | 65996-93-2 |

| SUBSTANCE NAME  | CAS NUMBER                           |
|---|--------------------------------------|
| Trichloroethylene   | 79-01-6                              |
| Tetraboron disodium heptaxide, hydrate  | 12267-73-1                           |
| Sodium chromate   | 7775-11-3                            |
| Potassium chromate  | 7789-00-6                            |
| Ammonium dichromate   | 7789-09-5                            |
| Potassium dichromate  | 7778-50-9                            |
| Boric Acid  | 10043-35-6<br>11113-50-1             |
| Disodium tetraborate, anhydrous   | 1330-43-4<br>12179-04-3<br>1303-96-4 |
| Cobalt(II) sulphate   | 10124-43-3                           |
| Cobalt(II) dinitrate  | 10141-05-6                           |
| Cobalt(II) carbonate  | 513-79-1                             |
| Cobalt(II) diacetate  | 71-48-7                              |
| 2-Methoxyethanol  | 109-86-4                             |
| 2-Ethoxyethanol   | 110-80-5                             |
| Chromium trioxide   | 1333-82-0                            |
| Acids generated from chromium trioxide and their oligomers:<br>Chromic acid<br>Dichromic acid<br>Oligomers of chromic acid and dichromic acid | 7738-94-5<br>13530-68-2<br>n/a       |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich  | 71888-89-6                           |
| 1,2,3-Trichloropropane  | 96-18-4                              |
| 1-Methyl-2-pyrrolidone  | 872-50-4                             |
| Hydrazine   | 302-01-2<br>7803-57-8                |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters   | 68515-42-4                           |
| Strontium chromate  | 7789-06-2                            |
| 2-Ethoxyethyl acetate   | 111-15-9                             |
| Lead styphnate  | 15245-44-0                           |
| Lead diazide, Lead azide  | 13424-46-9                           |
| Lead dipicrate  | 6477-64-1                            |
| Phenolphthalein   | 77-09-8                              |
| 2,2'-Dichloro-4,4'-methylenedianiline   | 101-14-4                             |
| N,N-dimethylacetamid  | 127-19-5                             |
| Trilead diarsenate  | 3687-31-8                            |
| Calcium arsenate  | 7778-44-1                            |
| Arsenic acid  | 7778-39-4                            |
| Bis(2-methoxyethyl) ether   | 111-96-6                             |
| 1,2-Dichloroethane  | 107-06-2                             |
| 4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol   | 140-66-9                             |
| 2-Methoxyaniline; o-Anisidine   | 90-04-0                              |
| Bis(2-methoxyethyl) phthalate   | 117-82-8                             |
| Formaldehyde, oligomeric reaction products with aniline (technical MDA)   | 25214-70-4                           |
| Dichromium tris(chromate)   | 24613-89-6                           |
| Potassium hydroxyoctaoxidizincatedichromate   | 11103-86-9                           |
| Pentazinc chromate octahydroxide  | 49663-84-5                           |

| SUBSTANCE NAME   | CAS NUMBER |
|--|------------|
| [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)]                   | 548-62-9   |
| a,a-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)]   | 6786-83-0  |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)   | 101-61-1   |
| 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)  | 59653-74-6 |
| Diboron Trioxide   | 1303-86-2  |
| 1,2-bis(2-methoxyethoxy)ethane(TEGDME;triglyme)  | 112-49-2   |
| 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)]   | 561-41-1   |
| Lead(II) bis(methanesulfonate)   | 17570-76-2 |
| Formamide  | 75-12-7    |
| [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)] | 2580-56-5  |
| 1,2-dimethoxyethane; ethylene glycol dimethyl ether (TGIC)   | 110-71-4   |
| 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)   | 2451-62-9  |
| 4,4'-bis(dimethylamino)benzphenone (Michler's ketone)  | 90-94-8    |
| Methoxyacetic acid   | 625-45-6   |
| 4-methyl-m-phenylenediamine (toluene-2,4-diamine)  | 95-80-7    |
| Methyloxirane (Propylene oxide)  | 75-56-9    |
| Trilead dioxide phosphonate  | 12141-20-7 |
| o-aminoazotoluene  | 97-56-3    |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   | 84777-06-0 |
| 4,4'-oxydianiline and its salts  | 101-80-4   |
| Orange lead (lead tetroxide)   | 1314-41-6  |
| Biphenyl-4-ylamine   | 92-67-1    |
| Diisopentylphthalate   | 605-50-5   |
| Fatty acids, C16-18, lead salts  | 91031-62-8 |
| Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))  | 123-77-3   |
| Sulfurous acid, lead salt, dibasic   | 62229-08-7 |
| Lead cyanamidate   | 20837-86-9 |
| Pyrochlore, antimony lead yellow   | 8012-00-8  |
| 6-methoxy-m-toluidine (p-cresidine)  | 120-71-8   |
| Henicosfluoroundecanoic acid   | 2058-94-8  |
| Dibutyltin dichloride (DBTC)   | 683-18-1   |
| Lead bis(tetrafluoroborate)  | 13814-96-5 |
| Lead dinitrate   | 10099-74-8 |
| Silicic acid, lead salt  | 11120-22-2 |
| 1-bromopropane (n-propyl bromide)  | 106-94-5   |
| Heptacosfluorotetradecanoic acid   | 376-06-7   |
| 4-Aminoazobenzene  | 60-09-3    |
| Lead titanium zirconium oxide  | 12626-81-2 |
| Lead monoxide (lead oxide)   | 1317-36-8  |
| o-Toluidine  | 95-53-4    |

| SUBSTANCE NAME   | CAS NUMBER   |
|--|--|
| Tricosafuorododecanoic acid  | 307-55-1   |
| Pentacosafuorotridecanoic acid   | 72629-94-8   |
| Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[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]</i>                           | 25550-51-0<br>19438-60-9<br>48122-14-1<br>57110-29-9 |
| Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[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]</i>   | 85-42-7<br>13149-00-3<br>14166-21-3                  |
| 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   | 143860-04-2  |
| Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped <i>[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]</i> | 68784-75-8   |
| Trilead bis(carbonate)dihydroxide  | 1319-46-6  |
| Furan  | 110-00-9   |
| N,N-dimethylformamide  | 68-12-2  |
| 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>   | n/a  |
| 4-Nonylphenol, branched and linear <i>[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]</i>  | n/a  |
| 4,4'-methylenedi-o-toluidine   | 838-88-0   |
| Diethyl sulphate   | 64-67-5  |
| Dimethyl sulphate  | 77-78-1  |
| Lead oxide sulfate   | 12036-76-9   |
| Lead titanium trioxide   | 12060-00-3   |
| Acetic acid, lead salt, basic  | 51404-69-4   |
| [Phthalato(2-)]dioxotrilead  | 69011-06-9   |
| Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)   | 1163-19-5  |
| N-methylacetamide  | 79-16-3  |
| Dinoseb (6-sec-butyl-2,4-dinitrophenol)  | 88-85-7  |
| 1,2-Diethoxyethane   | 629-14-1   |
| Tetralead trioxide sulphate  | 12202-17-4   |
| N-pentyl-isopentylphthalate  | 776297-69-9  |
| Dioxobis( tearate)trilead  | 12578-12-0   |
| Tetraethyllead   | 78-00-2  |
| Pentalead tetraoxide sulphate  | 12065-90-6   |
| 4-Nonylphenol, branched and linear, ethoxylated <i>[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]</i>                                       | n/a  |
| Cadmium oxide  | 1306-19-0  |
| Cadmium  | 7440-43-9  |
| Ammonium pentadecafluorooctanoate (APFO)   | 3825-26-1  |

| SUBSTANCE NAME  | CAS NUMBER                          |
|---|-------------------------------------|
| Pentadecafluorooctanoic acid (PFOA)   | 335-67-1                            |
| Dipentyl phthalate (DPP)  | 131-18-0                            |
| Cadmium sulphide  | 1306-23-6                           |
| 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)   | 1937-37-7                           |
| Dihexyl phthalate   | 84-75-3                             |
| Imidazolidine-2-thione; (2-imidazoline-2-thiol)   | 96-45-7                             |
| Trixylyl phosphate  | 25155-23-1                          |
| Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)  | 573-58-0                            |
| Lead di(acetate)  | 301-04-2                            |
| Cadmium Chloride  | 10108-64-2                          |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear  | 68515-50-4                          |
| Sodium peroxometaborate   | 7632-04-4                           |
| Sodium perborate; perboric acid, sodium salt  | n/a                                 |
| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)  | 3846-71-7                           |
| 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)  | 15571-58-1                          |
| 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)                                      | n/a                                 |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)  | 25973-55-1                          |
| Cadmium fluoride  | 7790-79-6                           |
| Cadmium sulphate  | 10124-36-4<br>31119-53-6            |
| 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)   | 68515-51-5<br>68648-93-1            |
| 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]   | n/a                                 |
| 1,3-propanesultone  | 1120-71-4                           |
| 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)  | 3864-99-1                           |
| 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)  | 36437-37-3                          |
| Nitrobenzene  | 98-95-3                             |
| Perfluorononan-1-oic-acid and its sodium and ammonium salts   | 375-95-1<br>21049-39-8<br>4149-60-4 |
| Benzo[def]chrysene (Benzo[a]pyrene)   | 50-32-8                             |
| 4,4'-isopropylidenediphenol (bisphenol A; BPA)  | 80-05-7                             |
| Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  | 335-76-2<br>3830-45-3<br>3108-42-7  |
| p-(1,1-dimethylpropyl)phenol  | 80-46-6                             |
| 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] | n/a                                 |
| Perfluorohexane-1-sulphonic acid and its salts  | n/a                                 |
| Cadmium carbonate   | 513-78-0                            |

| SUBSTANCE NAME  | CAS NUMBER               |
|---|--------------------------|
| Benz[a]anthracene   | 56-55-3<br>1718-53-2     |
| Cadmium hydroxide   | 21041-95-2               |
| Cadmium nitrate   | 10022-68-1<br>10325-94-7 |
| Chrysene  | 218-01-9<br>1719-03-5    |
| Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) covering any of its individual anti- and syn-isomers or any combination thereof | n/a                      |
| 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-heptylphenol, branched and linear (4-HPbl)     | n/a                      |
| Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)   | 552-30-7                 |
| Benzo[ghi]perylene  | 191-24-2                 |
| Decamethylcyclopentasiloxane (D5)   | 541-02-6                 |
| Dicyclohexyl phthalate (DCHP)   | 84-61-7                  |
| Disodium octaborate   | 12008-41-2               |
| Dodecamethylcyclohexasiloxane (D6)  | 540-97-6                 |
| Ethylenediamine (EDA)   | 107-15-3                 |
| Lead  | 7439-92-1                |
| Octamethylcyclotetrasiloxane (D4)   | 556-67-2                 |
| Terphenyl, hydrogenated   | 61788-32-7               |
| 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one   | 15087-24-8               |
| 2,2-bis(4'-hydroxyphenyl)-4-methylpentane   | 6807-17-6                |
| Benzo[k]fluoranthene  | 207-08-9                 |
| Fluoranthene  | 206-44-0<br>93951-69-0   |
| Phenanthrene  | 85-01-8                  |
| Pyrene  | 129-00-0<br>1718-52-1    |
| 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides  | n/a                      |
| 2-methoxyethyl acetate  | 110-49-6                 |
| 4-tert-butylphenol  | 98-54-4                  |
| Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)  | n/a                      |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone   | 119313-12-1              |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  | 71868-10-5               |
| Diisohexyl phthalate  | 71850-09-4               |
| Perfluorobutane sulfonic acid (PFBS) and its salts  | n/a                      |
| Dibutylbis(pentane-2,4-dionato-O,O')tin   | 22673-19-4               |
| butyl 4-hydroxybenzoate   | 94-26-8                  |
| 2-methylimidazole   | 693-98-1                 |
| 1-vinylimidazole  | 1072-63-5                |

Fair-Rite Products Corp. is a producer of articles that do not contain SVHCs. Fair-Rite Products will monitor publications for changes to this list. If any prohibited substances affect products that are purchased from us, Fair-Rite will notify customers in a reasonable amount of time.



Rich Eckmann  
Director of Quality