

REACH - SVHC Declaration / PFOS & PFOA Statement

Schaffner declares that the product portfolio we provide to the market including packaging materials is compliant to restrictions on substances affected by REACH (see table 1 and table 1 ff).

Schaffner will ensure that suppliers of Schaffner will pre-register/register for which REACH registration requirements are applicable.

PFOS&PFOA are persistent, bio-accumulating and toxic to mammalian species. They are used, for example, in coatings, carpets, photo resists, hydraulic fluids and glass fabric for PCBs. They normally take the form of sodium or potassium salt. Schaffner does not add or use PFOS&PFOA during the manufacturing process and all our raw materials are required to be free of PFOS&PFOA. To the best of our knowledge, the products supplied comply with the latest REACH Regulations.

| Substance name | CAS number | EC number | Limits |
|----------------------------------------------------------------|------------|-----------|-----------|
| Anthracene | 120-12-7 | 204-371-1 | <1000 ppm |
| 4,4'- Diaminodiphenylmethane (MDA) | 101-77-9 | 202-974-4 | <1000 ppm |
| Dibutyl phthalate (DBP) | 84-74-2 | 201-557-4 | <1000 ppm |
| Cobalt dichloride | 7646-79-9 | 231-589-4 | <1000 ppm |
| Diarsenic pentaoxide | 1303-28-2 | 215-116-9 | <1000 ppm |
| Diarsenic trioxide | 1327-53-3 | 215-481-4 | <1000 ppm |
| Sodium dichromate, dihydrate | 7789-12-0 | 234-190-3 | <1000 ppm |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 81-15-2 | 201-329-4 | <1000 ppm |
| Bis (2-ethyl(hexyl)phthalate) (DEHP) | 117-81-7 | 204-211-0 | <1000 ppm |
| Hexabromocyclododecane (HBCDD) | 25637-99-4 | 247-148-4 | <1000 ppm |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | 287-476-5 | <1000 ppm |
| Bis(tributyltin)oxide (TBTO) | 56-35-9 | 200-268-0 | <1000 ppm |

Karen Chen
Global Sourcing Manager

Signature:

Date: July 14, 2014

Martin Koeppel
Corporate Quality Manager

Signature:

Date: July 14, 2014

*Table 1 .Candidate list of substances of very high concern
 Published October 28th 2008, last update Jun 16th 2014*

| Substance name | CAS number | EC number | Involved in our supply chain |
|-------------------------------------------------------------|----------------------------------|-----------|------------------------------|
| Lead hydrogen arsenate | 7784-40-9 | 232-064-2 | <1000 ppm |
| Triethyl arsenate | 15606-95-8 | 427-700-2 | <1000 ppm |
| Benzyl butyl phthalate (BBP) | 85-68-7 | 201-622-7 | <1000 ppm |
| Anthracene oil | 90640-80-5 | 292-602-7 | <1000 ppm |
| Anthracene oil, anthracene paste, distn. lights | 91995-17-4 | 295-278-5 | <1000 ppm |
| Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | 295-275-9 | <1000 ppm |
| Anthracene oil, anthracene-low | 90640-82-7 | 292-604-8 | <1000 ppm |
| Anthracene oil, anthracene paste | 90640-81-6 | 292-603-2 | <1000 ppm |
| Coal tar pitch, high temperature | 65996-93-2 | 266-028-2 | <1000 ppm |
| Acrylamide | 79-06-1 | 201-173-7 | <1000 ppm |
| Aluminosilicate Refractory Ceramic Fibers(RCF) | -- | -- | <1000 ppm |
| Zirconia Aluminosilicate Refractory Ceramic Fibers(Zr-RCF) | -- | -- | <1000 ppm |
| 2,4-Dinitrotoluene | 121-14-2 | 204-450-0 | <1000 ppm |
| Diisobutyl phthalate | 84-69-5 | 201-553-2 | <1000 ppm |
| Lead chromate | 7758-97-6 | 231-846-0 | <1000 ppm |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104) | 12656-85-8 | 235-759-9 | <1000 ppm |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34) | 1344-37-2 | 215-693-7 | <1000 ppm |
| Tris(2-chloroethyl)phosphate | 115-96-8 | 204-118-5 | <1000 ppm |
| Ammonium dichromate | 7789-09-5 | 232-143 | <1000 ppm |
| Disodium tetraborate, anhydrous | 1303-96-4/ 1330-43-4/ 12179-04-3 | 215-540-4 | <1000 ppm |
| Potassium chromate | 7789-00-6 | 232-140-5 | <1000 ppm |
| Potassium dichromate | 7778-50-9 | 231-906-6 | <1000 ppm |
| Sodium chromate | 7775-11-3 | 231-889-5 | <1000 ppm |
| Tetraboron disodium heptaoxide, hydrate | 12267-73-1 | 235-541-3 | <1000 ppm |

*Table 2 .Candidate list of substances of very high concern
 Published October 28th 2008, last update Jun 16th 2014*

| Substance name | CAS number | EC number | Involved in our supply chain |
|------------------------------------------------------------------------------------|------------------------------|-----------------------------|------------------------------|
| Trichloroethylene | 79-01-6 | 201-167-4 | <1000 ppm |
| Boric acid | 10043-35-3 / 11113-50-1 | 233-139-2 / 234- 343-4 | <1000 ppm |
| 2-Methoxyethanol | 109-86-4 | 203-713-7 | <1000 ppm |
| 2-Ethoxyethano | 110-80-5 | 203-804-1 | <1000 ppm |
| Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid | 7738-94-5 - 13530-68-2 | 231-801-5 - 236-881-5 | <1000 ppm |
| Chromium trioxide | 1333-82-0 | 215-607-8 | <1000 ppm |
| Cobalt(II) carbonate | 513-79-1 | 208-169-4 | <1000 ppm |
| Cobalt(II) diacetate | 71-48-7 | 200-755-8 | <1000 ppm |
| Cobalt(II) dinitrate | 10141-05-6 | 233-402-1 | <1000 ppm |
| Cobalt(II) sulphate | 10124-43-3 | 233-334-2 | <1000 ppm |
| 2-ethoxyethyl acetate | 111-15-9 | 203-839-2 | <1000 ppm |
| strontium chromate | 7789-06-2 | 232-142-6 | <1000 ppm |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | 271-084-6 | <1000 ppm |
| Hydrazine | 302-01-2 | 206-114-9 | <1000 ppm |
| 1-methyl-2-pyrrolidone | 872-50-4 | 212-828-1 | <1000 ppm |
| 1,2,3-trichloropropane | 96-18-4 | 202-486-1 | <1000 ppm |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | 276-158-1 | <1000 ppm |
| Dichromium tris(chromate) | 24613-89-6 | 246-356-2 | <1000 ppm |
| Potassium hydroxyoctaoxidizincatedichromate | 11103-86-9 | 234-329-8 | <1000 ppm |
| Pentazinc chromate octahydroxide | 49663-84-5 | 256-418-0 | <1000 ppm |
| 2-Methoxyaniline;o-Anisidine | 90-04-0 | 201-963-1 | <1000 ppm |
| 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) | 140-66-9 | 205-426-2 | <1000 ppm |
| Formaldehyde,oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | 500-036-1 | <1000 ppm |
| Bis (2-methoxyethyl) phthalate | 117-82-8 | 204-212-6 | <1000 ppm |

*Table 3 .Candidate list of substances of very high concern
 Published October 28th 2008, last update Jun 16th 2014*

| Substance name | CAS number | EC number | Involved in our supply chain |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------------------------|
| 1,2-Dichloroethane | 107-06-2 | 203-458-1 | <1000 ppm |
| Bis(2-methoxyethyl)ether | 111-96-6 | 203-924-4 | <1000 ppm |
| Arsenic acid | 7778-39-4 | 231-901-9 | <1000 ppm |
| Calcium arsenate | 7778-44-1 | 231-904-5 | <1000 ppm |
| Trilead diarsenate | 3687-31-8 | 222-979-5 | <1000 ppm |
| N,N-dimethylacetamide(DMAC) | 127-19-5 | 204-826-4 | <1000 ppm |
| 2,2'-dichloro-4,4'-methylenedianiline(MOCA) | 101-14-4 | 202-918-9 | <1000 ppm |
| Phenolphthalein | 77-09-8 | 201-004-07 | <1000 ppm |
| Lead diazide | 13424-46-9 | 236-542-1 | <1000 ppm |
| Lead styphnate | 15245-44-0 | 239-290-0 | <1000 ppm |
| Lead dipicrate | 6477-64-1 | 229-335-2 | <1000 ppm |
| 1,2-bis(2-methoxyethoxy)ethane(TEGDME; triglyme) | 112-49-2 | 203-977-3 | <1000 ppm |
| 1,2-dimethoxyethane;ethylene glycol dimethyl ether(EGDME) | 110-71-4 | 203-794-9 | <1000 ppm |
| Diboron trioxide | 1303-86-2 | 215-125-8 | <1000 ppm |
| Formamide | 75-12-7 | 200-842-0 | <1000 ppm |
| Lead(II) bis (methanesulfonate) | 17570-76-2 | 401-750-5 | <1000 ppm |
| 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione(TGIC) | 2451-62-9 | 219-514-3 | <1000 ppm |
| 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione(β -TGIC) | 59653-74-6 | 423-400-0 | <1000 ppm |
| 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 90-94-8 | 202-027-5 | <1000 ppm |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 101-61-1 | 202-959-2 | <1000 ppm |
| [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 or Michler's base] | 548-62-9 | 208-953-6 | <1000 ppm |
| [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 or Michler's base] | 2580-56-5 | 219-943-6 | <1000 ppm |
| α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)[with \geq 0.1% of Michler's ketone or Michler's base] | 6786-83-0 | 229-851-8 | <1000 ppm |

Table 4 .Candidate list of substances of very high concern
 Published October 28th 2008, last update Jun 16th 2014

| Substance name | CAS number | EC number | Involved in our supply chain |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|------------------------------|
| 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with≥0.1% of Michler's ketone or Michler's base] | 561-41-1 | 209-218-2 | <1000 ppm |
| Bis(pentabromophenyl)ether (decabromodiphenyl ether; DecaBDE) | 1163-19-5 | 214-604-9 | <1000 ppm |
| Pentacosaflluorotridecanoic acid | 72629-94-8 | 276-745-2 | <1000 ppm |
| Tricosaflluorododecanoic acid | 307-55-1 | 206-203-2 | <1000 ppm |
| Henicosaflluoroundecanoic acid | 2058-94-8 | 218-165-4 | <1000 ppm |
| Heptacosaflluorotetradecanoic acid | 376-06-7 | 206-803-4 | <1000 ppm |
| Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | 204-650-8 | <1000 ppm |
| 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 and all possible combinations of the cis- and trans-isomers \[1] are covered by this entry | 85-42-7, 13149-00-3, 14166-21-3 | 201-604-9, 236-086-3, 238-009-9 | <1000 ppm |
| 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] | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | 247-094-1, 243-072-0, 256-356-4, 260-566-1 | <1000 ppm |
| 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 | -- | -- | <1000 ppm |
| 4-(1,1,3,3-tetramethylbutyl)phenol | 140-66-9 | 205-426-2 | <1000 ppm |
| Methoxyacetic acid | 625-45-6 | 210-894-6 | <1000 ppm |
| N,N-dimethylformamide | 68-12-2 | 200-679-5 | <1000 ppm |
| Dibutyltin dichloride (DBTC) | 683-18-1 | 211-670-0 | <1000 ppm |
| Lead monoxide (Lead oxide) | 1317-36-8 | 215-267-0 | <1000 ppm |
| Orange lead (Lead tetroxide) | 1314-41-6 | 215-235-6 | <1000 ppm |

Table 5 .Candidate list of substances of very high concern
 Published October 28th 2008, last update Jun 16th 2014

| Substance name | CAS number | EC number | Involved in our supply chain |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|------------------------------|
| Lead bis(tetrafluoroborate) | 13814-96-5 | 237-486-0 | <1000 ppm |
| Trilead bis(carbonate)dihydroxide | 1319-46-6 | 215-290-6 | <1000 ppm |
| Lead titanium trioxide | 12060-00-3 | 235-038-9 | <1000 ppm |
| Lead titanium zirconium oxide | 12626-81-2 | 235-727-4 | <1000 ppm |
| Silicic acid, lead salt | 11120-22-2 | 234-363-3 | <1000 ppm |
| 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 | 68784-75-8 | 272-271-5 | <1000 ppm |
| 1-bromopropane (n-propylbromide) | 106-94-5 | 203-445-0 | <1000 ppm |
| Methyloxirane (Propyleneoxide) | 75-56-9 | 200-879-2 | <1000 ppm |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear* | 84777-06-0 | 284-032-2 | <1000 ppm |
| Diisopentylphthalate * | 605-50-5 | 210-088-4 | <1000 ppm |
| N-pentyl-isopentylphthalate* | 776297-69-9 | -- | <1000 ppm |
| 1,2-Diethoxyethane | 629-14-1 | 211-076-1 | <1000 ppm |
| Acetic acid, lead salt, basic | 51404-69-4 | 257-175-3 | <1000 ppm |
| Lead oxide sulfate | 12036-76-9 | 234-853-7 | <1000 ppm |
| [Phthalato(2-)]dioxotrilead | 69011-06-9 | 273-688-5 | <1000 ppm |
| Dioxobis(stearato)trilead | 12578-12-0 | 235-702-8 | <1000 ppm |
| Fatty acids, C16-18, lead salts | 91031-62-8 | 292-966-7 | <1000 ppm |
| Lead cyanamidate | 20837-86-9 | 244-073-9 | <1000 ppm |
| Lead dinitrate | 10099-74-8 | 233-245-9 | <1000 ppm |
| Pentalead tetraoxide sulphate | 12065-90-6 | 235-067-7 | <1000 ppm |
| Pyrochlore, antimony lead yellow | 8012-00-8 | 232-382-1 | <1000 ppm |
| Sulfurous acid, lead salt, dibasic | 62229-08-7 | 263-467-1 | <1000 ppm |

*Table 6 .Candidate list of substances of very high concern
 Published October 28th 2008, last update Jun 16th 2014*

| Substance name | CAS number | EC number | Involved in our supply chain |
|----------------------------------------------------|-------------|-----------|------------------------------|
| Tetraethyllead | 78-00-2 | 201-075-4 | <1000 ppm |
| Tetralead trioxide sulphate | 12202-17-4 | 235-380-9 | <1000 ppm |
| Trilead dioxide phosphonate | 12141-20-7 | 235-252-2 | <1000 ppm |
| Furan | 110-00-9 | 203-727-3 | <1000 ppm |
| Diethyl sulphate | 64-67-5 | 200-589-6 | <1000 ppm |
| Dimethyl sulphate | 77-78-1 | 201-058-1 | <1000 ppm |
| 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 421-150-7 | <1000 ppm |
| Dinoseb(6-sec-butyl-2,4-dinitrophenol) | 88-85-7 | 201-861-7 | <1000 ppm |
| 4,4'-methylenedi-o-toluidine | 838-88-0 | 212-658-8 | <1000 ppm |
| 4,4'-oxydianiline and its salts | 101-80-4 | 202-977-0 | <1000 ppm |
| 4-aminoazobenzene | 60-09-3 | 200-453-6 | <1000 ppm |
| 4-methyl-m-phenylenediamine(toluene-2,4-diamine) | 95-80-7 | 202-453-1 | <1000 ppm |
| 6-methoxy-m-toluidine(p-cresidine) | 120-71-8 | 204-419-1 | <1000 ppm |
| Biphenyl-4-ylamine | 92-67-1 | 202-177-1 | <1000 ppm |
| o-aminoazotoluene | 97-56-3 | 202-591-2 | <1000 ppm |
| o-toluidine | 95-53-4 | 202-429-0 | <1000 ppm |
| N-methylacetamide | 79-16-3 | 201-182-6 | <1000 ppm |
| Cadmium | 7440-43-9 | 231-152-8 | <1000 ppm |
| Cadmium oxide | 1306-19-0 | 215-146-2 | <1000 ppm |
| Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | 223-320-4 | <1000 ppm |
| Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | 206-397-9 | <1000 ppm |
| Dipentyl phthalate (DPP) | 131-18-0 | 205-017-9 | <1000 ppm |
| 4-Nonylphenol, branched and linear, ethoxylated | -- | -- | <1000 ppm |
| Cadmium sulphide | 1306-23-6 | 215-147-8 | <1000 ppm |

*Table 7 .Candidate list of substances of very high concern
 Published October 28th 2008, last update Jun 16th 2014*

| Substance name | CAS number | EC number | Involved in our supply chain |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|------------------------------|
| Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 573-58-0 | 209-358-4 | <1000 ppm |
| 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 | 217-710-3 | <1000 ppm |
| Dihexyl phthalate | 84-75-3 | 201-559-5 | <1000 ppm |
| Imidazolidine-2-thione (2-imidazoline-2-thiol) | 96-45-7 | 202-506-9 | <1000 ppm |
| Lead di(acetate) | 301-04-2 | 206-104-4 | <1000 ppm |
| Trixylyl phosphate | 25155-23-1 | 246-677-8 | <1000 ppm |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | 271-093-5 | <1000 ppm |
| Sodium perborate; perboric acid, sodium salt | -- | 239-172-9; 234-390-0 | <1000 ppm |
| Sodium peroxometaborate | 7632-04-4 | 231-556-4 | <1000 ppm |
| Cadmium chloride | 10108-64-2 | 233-296-7 | <1000 ppm |

*Table 8 .Candidate list of substances of very high concern
 Published October 28th 2008, last update Jun 16th 2014*

History

| Version | Date | Initials | Changes |
|---------|--------|----------|------------------------------------------------------|
| 0 | 091020 | Be | SVHC list |
| 1 | 100414 | Be | update |
| 2 | 100415 | Be | Criteria added |
| 3 | 100601 | Be | Dates adapted, list updated with ECHA candidate list |
| 4 | 100806 | Be | Update HVHC list |
| 5 | 101115 | Be | PFOS statement added |
| 6 | 101206 | Be | List update |
| 7 | 110302 | Be | List update |
| 8 | 110711 | Lin Wang | List update |
| 9 | 120118 | Max Wang | List update |
| 10 | 120713 | Max Wang | List update |
| 11 | 130130 | Max Wang | List update |
| 12 | 130625 | Max Wang | List update |
| 13 | 131216 | Max Wang | List update |
| 14 | 140616 | Max Wang | List update |