



SPEARS® MANUFACTURING COMPANY

CORPORATE OFFICE

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CERTIFICATE OF COMPLIANCE

REACH REGULATION FOR PVC & CPVC MATERIALS

Spears® Manufacturing Company certifies that its pipe, injection-molded and fabricated products are manufactured in the U.S.A. using the highest quality Unplasticized Polyvinyl Chloride (UPVC) and Unplasticized Chlorinated Polyvinyl Chloride (UCPVC) compounds, which are in compliance with the criteria as set forth in the REACH Regulation.

Spears® products **DO NOT** contain any of the following Substances of Very High Concern (SVHC) at or above 0.1% by weight:

Candidate List of Substances of Very High Concern for Authorization Listed on Oct 28, 2008		
Substance Name	EC No	CAS No
Lead hydrogen arsenate	232-064-2	7784-40-9
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2
Diarsenic trioxide	215-481-4	1327-53-3
Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9
Triethyl arsenate	427-700-2	15606-95-8
Diarsenic pentaoxide	215-116-9	1303-28-2
Sodium dichromate	234-190-3	7789-12-0 10588-01-9
Dibutyl phthalate (DBP)	201-557-4	84-74-2
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
Anthracene	204-371-1	120-12-7
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)

Candidate List of Substances of Very High Concern for Authorization Listed on Jan 13, 2010		
Substance Name	EC No	CAS No
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
Anthracene oil	292-602-7	90640-80-5
2,4-Dinitrotoluene	204-450-0	121-14-2
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
Anthracene oil, anthracene-low	292-604-8	90640-82-7
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8
Diisobutyl phthalate	201-553-2	84-69-5
Lead chromate	231-846-0	7758-97-6
Anthracene oil, anthracene paste	292-603-2	90640-81-6
Pitch, coal tar, high temp.	266-028-2	65996-93-2

Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4
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Candidate List of Substances of Very High Concern for Authorization Listed on Mar 30, 2010		
Substance Name	EC No	CAS No
Acrylamide	201-173-7	79-06-1

Candidate List of Substances of Very High Concern for Authorization Listed on June 18, 2010		
Substance Name	EC No	CAS No
Trichloroethylene	201-167-4	79-01-6
Potassium dichromate	231-906-6	7778-50-9
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
Ammonium dichromate	232-143-1	7789-09-5
Boric acid	233-139-2 234-343-4	10043-35-3 11113-50-1
Sodium chromate	231-889-5	7775-11-3
Disodium tetraborate, anhydrous	215-540-4	1303-96-4
		1330-43-4
		12179-04-3
Potassium chromate	232-140-5	7789-00-6

Candidate List of Substances of Very High Concern for Authorization Listed on Dec 15, 2010		
Substance Name	EC No	CAS No
Cobalt(II) diacetate	200-755-8	71-48-7
Cobalt(II) sulphate	233-334-2	10124-43-3
2-Ethoxyethanol	203-804-1	110-80-5
Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5	7738-94-5
	236-881-5	13530-68-2
2-Methoxyethanol	203-713-7	109-86-4
Chromium trioxide	215-607-8	1333-82-0
Cobalt(II) carbonate	208-169-4	513-79-1
Cobalt(II) dinitrate	233-402-1	10141-05-6

Candidate List of Substances of Very High Concern for Authorization Listed on Oct 28, 2008 - Jun 20, 2011		
Substance Name	EC No	CAS No
Cobalt dichloride	231-589-4	7646-79-9

Candidate List of Substances of Very High Concern for Authorization Listed on June 20, 2011		
Substance Name	EC No	CAS No
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
Strontium chromate	232-142-6	7789-06-2
1-Methyl-2-pyrrolidone	212-828-1	872-50-4
1,2,3-Trichloropropane	202-486-1	96-18-4
2-Ethoxyethyl acetate	203-839-2	111-15-9
Hydrazine	206-114-9	302-01-2
		7803-57-8

Candidate List of Substances of Very High Concern for Authorization Listed on Dec 19, 2011		
Substance Name	EC No	CAS No

4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9
N,N-dimethylacetamide	204-826-4	127-19-5
Phenolphthalein	201-004-7	77-09-8
Lead diazide, Lead azide	236-542-1	13424-46-9
Lead dipicrate	229-335-2	6477-64-1
1,2-dichloroethane	203-458-1	107-06-2
Calcium arsenate	231-904-5	7778-44-1
Dichromium tris(chromate)	246-356-2	24613-89-6
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
Pentazinc chromate octahydroxide	256-418-0	49663-84-5
Arsenic acid	231-901-9	7778-39-4
Potassium hydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4
Lead styphnate	239-290-0	15245-44-0
Trilead diarsenate	222-979-5	3687-31-8
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 fulfil the three following conditions: a) oxides of aluminium, 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 (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight		
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
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 fulfil the three following conditions: a) oxides of aluminium 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 (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight		
Bis(2-methoxyethyl) ether	203-924-4	111-96-6
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4

Candidate List of Substances of Very High Concern for Authorization Listed on June 18, 2012

Substance Name	EC No	CAS No
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1
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
Diboron trioxide	215-125-8	1303-86-2
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 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

Candidate List of Substances of Very High Concern for Authorization Listed on June 18, 2012 (Cont.)

Substance Name	EC No	CAS No
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Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
Formamide	200-842-0	75-12-7
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 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
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 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
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8

Candidate List of Substances of Very High Concern for Authorization Listed on December 12, 2012		
Substance Name	EC No	CAS No
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
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
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
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
Henicosfluoroundecanoic acid	218-165-4	2058-94-8
4-Aminoazobenzene	200-453-6	60-09-3
Silicic acid, lead salt	234-363-3	11120-22-2
Lead titanium zirconium oxide	235-727-4	12626-81-2
Lead monoxide (lead oxide)	215-267-0	1317-36-8
o-Toluidine	202-429-0	95-53-4
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
Lead dinitrate	233-245-9	10099-74-8
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]	272-271-5	68784-75-8
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
Diethyl sulphate	200-589-6	64-67-5
Dimethyl sulphate	201-058-1	77-78-1
N,N-dimethylformamide	200-679-5	68-12-2

Candidate List of Substances of Very High Concern for Authorization Listed on December 12, 2012 (Cont.)		
Substance Name	EC No	CAS No
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
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]	-	-
Furan	203-727-3	110-00-9
Lead oxide sulfate	234-853-7	12036-76-9
Lead titanium trioxide	235-038-9	12060-00-3
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
1,2-Diethoxyethane	211-076-1	629-14-1
N-methylacetamide	201-182-6	79-16-3
Tetralead trioxide sulphate	235-380-9	12202-17-4
Acetic acid, lead salt, basic	257-175-3	51404-69-4
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
Tetraethyllead	201-075-4	78-00-2
N-pentyl-isopentylphthalate	-	776297-69-9
Pentalead tetraoxide sulphate	235-067-7	12065-90-6
Heptacosaflluorotetradecanoic acid	206-803-4	376-06-7
Tricosaflluorododecanoic acid	206-203-2	307-55-1
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
Dioxobis(stearato)trilead	235-702-8	12578-12-0
Pentacosaflluorotridecanoic acid	276-745-2	72629-94-8
Methoxyacetic acid	210-894-6	625-45-6
Methyloxirane (Propylene oxide)	200-879-2	75-56-9
Trilead dioxide phosphonate	235-252-2	12141-20-7
o-aminoazotoluene	202-591-2	97-56-3
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
Diisopentylphthalate	210-088-4	605-50-5
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
Biphenyl-4-ylamine	202-177-1	92-67-1
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
Orange lead (lead tetroxide)	215-235-6	1314-41-6
4,4'-oxydianiline and its salts	202-977-0	101-80-4
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
Lead cyanamidate	244-073-9	20837-86-9

Candidate List of Substances of Very High Concern for Authorization Listed on June 20, 2013		
Substance Name	EC No	CAS No
Cadmium	231-152-8	7440-43-9
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1

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]	-	-
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
Dipentyl phthalate (DPP)	205-017-9	131-18-0
Cadmium oxide	215-146-2	1306-19-0

Candidate List of Substances of Very High Concern for Authorization Listed on December 16, 2013		
Substance Name	EC No	CAS No
Cadmium sulphide	215-147-8	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)	217-710-3	1937-37-7
Dihexyl phthalate	201-559-5	84-75-3
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7
Trixylyl phosphate	246-677-8	25155-23-1
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
Lead di(acetate)	206-104-4	301-04-2

Candidate List of Substances of Very High Concern for Authorization Listed on June 16, 2014		
Substance Name	EC No	CAS No
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-
Sodium peroxometaborate	231-556-4	7632-04-4
Cadmium chloride	233-296-7	10108-64-2

Candidate List of Substances of Very High Concern for Authorization Listed on December 17, 2014		
Substance Name	EC No	CAS No
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1
Cadmium sulphate	233-331-6	10124-36-4 31119-53-6
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
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)	-	-
Cadmium fluoride	232-222-0	7790-79-6
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7

Candidate List of Substances of Very High Concern for Authorization Listed on June 15, 2015		
Substance Name	EC No	CAS No
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	271-094-0 272-013-1	68515-51-5 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]	-	-
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Candidate List of Substances of Very High Concern for Authorization Listed on December 15, 2015		
Substance Name	EC No	CAS No
Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4
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



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