

Certificate of REACH Compliance

This certificate states that, to the best of our knowledge, all Syfer branded parts supplied by Knowles are fully compliant with the requirements of the REACH Directive, i.e. do not contain any SVHCs above the 0.1% threshold, including any applicable annexes.

The REACH 181 Substances of Very High Concern (SVHC) are as specified below according to the current Candidate list published by ECHA (European Chemical Agency).

	Substance Name	CAS No.	EC No.	SVHC Published Date
1	Cadmium sulphide	1306-23-6	215-147-8	2013/12/16
2	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	2013/12/16
3	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	2013/12/16
4	Dihexyl phthalate	84-75-3	201-559-5	2013/12/16
5	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	2013/12/16
6	Lead di(acetate)	301-04-2	206-104-4	2013/12/16
7	Trixylyl phosphate	25155-23-1	246-677-8	2013/12/16
8	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	2012/12/19
9	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	2012/12/19
10	Henicosaflluoroundecanoic acid	2058-94-8	218-165-4	2012/12/19
11	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	2012/12/19
12	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]	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	2012/12/19

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13	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	2012/12/19
14	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	2012/12/19
15	Lead dinitrate	10099-74-8	233-245-9	2012/12/19
16	Silicic acid, lead salt	11120-22-2	234-363-3	2012/12/19
17	4-Aminoazobenzene	60-09-3	200-453-6	2012/12/19
18	Lead titanium zirconium oxide	12626-81-2	235-727-4	2012/12/19
19	Lead monoxide (lead oxide)	1317-36-8	215-267-0	2012/12/19
20	o-Toluidine	95-53-4	202-429-0	2012/12/19
21	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	2012/12/19
22	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	2012/12/19
23	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	2012/12/19
24	Furan	110-00-9	203-727-3	2012/12/19
25	N,N-dimethylformamide	68-12-2	200-679-5	2012/12/19
26	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	2012/12/19
27	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]	-	-	2012/12/19
28	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	2012/12/19
29	Diethyl sulphate	64-67-5	200-589-6	2012/12/19
30	Dimethyl sulphate	77-78-1	201-058-1	2012/12/19
31	Lead oxide sulphate	12036-76-9	234-853-7	2012/12/19
32	Lead titanium trioxide	12060-00-3	235-038-9	2012/12/19
33	Acetic acid, lead salt, basic	51404-69-4	257-175-3	2012/12/19
34	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	2012/12/19
35	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	2012/12/19
36	N-methylacetamide	79-16-3	201-182-6	2012/12/19

37	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	2012/12/19
38	1,2-Diethoxyethane	629-14-1	211-076-1	2012/12/19
39	Tetralead trioxide sulphate	12202-17-4	235-380-9	2012/12/19
40	N-pentyl-isopentylphthalate	776297-69-9	-	2012/12/19
41	Dioxobis(stearato)trilead	12578-12-0	235-702-8	2012/12/19
42	Tetraethyl lead	78-00-2	201-075-4	2012/12/19
43	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	2012/12/19
44	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	2012/12/19
45	Tricosafuorododecanoic acid	307-55-1	206-203-2	2012/12/19
46	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	2012/12/19
47	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	2012/12/19
48	Methoxyacetic acid	625-45-6	210-894-6	2012/12/19
49	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	2012/12/19
50	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	2012/12/19
51	Trilead dioxide phosphonate	12141-20-7	235-252-2	2012/12/19
52	o-aminoazotoluene	97-56-3	202-591-2	2012/12/19
53	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	2012/12/19
54	4,4'-oxydianiline and its salts	101-80-4	202-977-0	2012/12/19
55	Orange lead (lead tetroxide)	1314-41-6	215-235-6	2012/12/19
56	Biphenyl-4-ylamine	92-67-1	202-177-1	2012/12/19
57	Diisopentylphthalate	605-50-5	210-088-4	2012/12/19
58	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	2012/12/19
59	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	2012/12/19
60	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	2012/12/19
61	Lead cyanamidate	20837-86-9	244-073-9	2012/12/19
62	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 (EC No. 202-959-2)]	6786-83-0	229-851-8	2012/06/18
63	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	2012/06/18
64	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-	59653-74-6	423-400-0	2012/06/18

	trione (β -TGIC)			
65	Diboron trioxide	1303-86-2	215-125-8	2012/06/18
66	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	2012/06/18
67	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	209-218-2	2012/06/18
68	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	2012/06/18
69	Formamide	75-12-7	200-842-0	2012/06/18
70	[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	208-953-6	2012/06/18
71	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	2012/06/18
72	[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	219-943-6	2012/06/18
73	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	2012/06/18
74	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	2012/06/18
75	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	2011/12/19
76	N,N-dimethylacetamide	127-19-5	204-826-4	2011/12/19
77	Phenolphthalein	77-09-8	201-004-7	2011/12/19
78	Lead diazide, Lead azide	13424-46-9	236-542-1	2011/12/19
79	Lead dipicrate	6477-64-1	229-335-2	2011/12/19
80	1,2-dichloroethane	107-06-2	203-458-1	2011/12/19
81	Calcium arsenate	7778-44-1	231-904-5	2011/12/19
82	Dichromium tris(chromate)	24613-89-6	246-356-2	2011/12/19
83	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	2011/12/19
84	Pentazinc chromate octahydroxide	49663-84-5	256-418-0	2011/12/19
85	Arsenic acid	7778-39-4	231-901-9	2011/12/19
86	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	2011/12/19
87	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	2011/12/19
88	Lead styphnate	15245-44-0	239-290-0	2011/12/19
89	Trilead diarsenate	3687-31-8	222-979-5	2011/12/19

90	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-	-	2011/12/19
91	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	2011/12/19
92	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-	-	2011/12/19
93	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	2011/12/19
94	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	2011/12/19
95	Cobalt dichloride	7646-79-9	231-589-4	2011/06/20 - 2008/10/28
96	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	2011/06/20
97	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	2011/06/20
98	Strontium chromate	7789-06-2	232-142-6	2011/06/20
99	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	2011/06/20
100	1,2,3-Trichloropropane	96-18-4	202-486-1	2011/06/20
101	2-Ethoxyethyl acetate	111-15-9	203-839-2	2011/06/20
102	Hydrazine	302-01-2, 7803-57-8	206-114-9	2011/06/20
103	Cobalt(II) diacetate	71-48-7	200-755-8	2010/12/15
104	Cobalt(II) sulphate	10124-43-3	233-334-2	2010/12/15
105	2-Ethoxyethanol	110-80-5	203-804-1	2010/12/15
106	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of	7738-94-5, 13530-68-2	231-801-5, 236-881-5	2010/12/15

	chromic acid and dichromic acid.			
107	2-Methoxyethanol	109-86-4	203-713-7	2010/12/15
108	Chromium trioxide	1333-82-0	215-607-8	2010/12/15
109	Cobalt(II) carbonate	513-79-1	208-169-4	2010/12/15
110	Cobalt(II) dinitrate	10141-05-6	233-402-1	2010/12/15
111	Trichloroethylene	79-01-6	201-167-4	2010/06/18
112	Potassium dichromate	7778-50-9	231-906-6	2010/06/18
113	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	2010/06/18
114	Ammonium dichromate	7789-09-5	232-143-1	2010/06/18
115	Boric acid	10043-35-3, 11113-50-1	233-139-2,234-343-4	2010/06/18
116	Sodium chromate	7775-11-3	231-889-5	2010/06/18
117	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	215-540-4	2010/06/18
118	Potassium chromate	7789-00-6	232-140-5	2010/06/18
119	Acrylamide	79-06-1	201-173-7	2010/03/30
120	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	2010/01/13
121	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	2010/01/13
122	Anthracene oil	90640-80-5	292-602-7	2010/01/13
123	2,4-Dinitrotoluene	121-14-2	204-450-0	2010/01/13
124	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	2010/01/13
125	Anthracene oil, anthracene-low	90640-82-7	292-604-8	2010/01/13
126	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	2010/01/13
127	Diisobutyl phthalate	84-69-5	201-553-2	2010/01/13
128	Lead chromate	7758-97-6	231-846-0	2010/01/13
129	Anthracene oil, anthracene paste	90640-81-6	292-603-2	2010/01/13
130	Pitch, coal tar, high temp.	65996-93-2	266-028-2	2010/01/13
131	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	2010/01/13
132	Lead hydrogen arsenate	7784-40-9	232-064-2	2008/10/28
133	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	2008/10/28

134	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	2008/10/28 2014/12/17
135	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	2008/10/28
136	Diarsenic trioxide	1327-53-3	215-481-4	2008/10/28
137	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	2008/10/28
138	Triethyl arsenate	15606-95-8	427-700-2	2008/10/28
139	Diarsenic pentaoxide	1303-28-2	215-116-9	2008/10/28
140	Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	2008/10/28
141	Dibutyl phthalate (DBP)	84-74-2	201-557-4	2008/10/28
142	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	2008/10/28
143	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	2008/10/28
144	Anthracene	120-12-7	204-371-1	2008/10/28
145	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4,221-695-9	2008/10/28
146	Cadmium	7440-43-9	231-152-8	2013/06/20
147	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	2013/06/20
148	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	2013/06/20
149	Dipentyl phthalate (DPP)	131-18-0	205-017-9	2013/06/20
150	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>]	-	-	2013/06/20
151	Cadmium oxide	1306-19-0	215-146-2	2013/06/20
152	Cadmium Chloride	10108-64-2	233-296-7	2014/06/16
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	2014/06/16
154	Sodium peroxometaborate	7632-04-4	231-556-4	2014/06/16
155	Sodium perborate; perboric acid, sodium salt		239-172-9,234-390-0	2014/06/16
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328)	25973-55-1	247-384-8	2014/12/17
157	Cadmium sulphate	10124-36-4;31119-53-6	233-331-6	2014/12/17

158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	2014/12/17
159	Cadmium fluoride	7790-79-6	232-222-0	2014/12/17
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	2014/12/17
161	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)	-	-	2014/12/17
162	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]	-	-	2015/06/15
163	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; 68648-93-1	271-094-0,272-013-1	2015/06/15
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	2015/12/17
165	Nitrobenzene	98-95-3	202-716-0	2015/12/17
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	2015/12/17
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	2015/12/17
168	1,3-propanesultone	1120-71-4	214-317-9	2015/12/17
169	Benzo[def]chrysene	50-32-8	200-028-8	2016/06/20
170	P-(1,1-dimethylpropyl) phenol	80-46-6	201-280-9	2017/01/12
171	Nonadecafluorodecanoic acid(PFDA) and its sodium and ammonium salts	-	-	2017/01/12
172	4-heptylphenol, branched and linear	-	-	2017/01/12
173	4,4-isopropylidenediphenol	80-05-7	201-245-8	2017/01/12
174	Perfluorohexane-1-sulphonic acid and its salts			2017/07/07
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	2018/01/15
176	Chrysene	218-01-9, 1719-03-5	205-923-4	2018/01/15

177	Cadmium nitrate	10022-68-1, 10325-94-7	233-710-6	2018/01/15
178	Cadmium hydroxide	21041-95-2	244-168-5	2018/01/15
179	Cadmium carbonate	513-78-0	208-168-9	2018/01/15
180	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	2018/01/15
181	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" TM)	-	-	2018/01/15

Date: 15th Jan 2018



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