

REACH Certificate of Compliance

Carclo Optics fully supports and hereby certifies complete conformance to the requirements of REACH's **240 SVHC** (Substances of Very High Concern), the European Community Regulation standard about chemicals and their safe use (EC 1907/2006), which is a new law entered into force on 07th July 2007 that was phased in until 2018.

Carclo Optics is committed to providing safe products, consistent with the improvement and protection of human health and the environment, through the better and earlier identification of the intrinsic properties of chemical substances.

Carclo Optics currently conforms up to **23rd January 2024**, Amendment E1, and will continue to conform to the requirements of REACH as new amendments are released: Specifically, the below listed chemical substances are not present in our products for quantities totalling over one tonne per producer a year and are not present above a concentration of 0.1% by weight.

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
1	Anthracene	120-12-7	■		28 Oct 2008
2	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	■		28 Oct 2008
3	Benzyl butyl phthalate (BBP)	85-68-7	■		28 Oct 2008
4	Bis(2-ethylhexyl)phtalate (DEHP)	117-81-7	■		28 Oct 2008
5	Dibutyl phthalate (DBP)	84-74-2	■		28 Oct 2008
6	Cobalt dichloride	7646-79-9	■		28 Oct 2008
7	Sodium dichromate	7789-12-0; 10588-01-9	■		28 Oct 2008
8	Lead hydrogen arsenate	7784-40-9	■		28 Oct 2008
9	Diarsenic pentaoxide	1303-28-2	■		28 Oct 2008
10	Triethyl arsenate	15606-95-8	■		28 Oct 2008
11	Diarsenic trioxide	1327-53-3	■		28 Oct 2008
12	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	■		28 Oct 2008
13	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: gamma-hexabromocyclododecane; beta-hexabromocyclododecane; 1,2,5,6,9,10-hexabromocyclododecane; Hexabromocyclododecane; alpha-hexabromocyclododecane	- 134237-52-8; 134237-51-7; 3194-55-6; 25637-99-4; 134237-50-6;	■		28 Oct 2008
14	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	■		28 Oct 2008
15	Bis(tributyltin)oxide (TBTO)	56-35-9	■		28 Oct 2008

Carclo Optics defines **"REACH Compliant"** to mean that banned substances are not intentionally added during the manufacturing process and have upper concentrations within REACH acceptable limits.

This status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the materials that goes into its products as of the date of 1st June 2007 disclosure of REACH compliance.

Amendment A

In a press release dated 7th December 2009, the European Chemicals Agency (ECHA) announced 12 new substances identified as potential Substances of Very High Concern (SVHC). As of 13th January 2010, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
16	Anthracene Oil	90640-80-5	■		13 Jan 2010
17	Anthracene Oil, Anthracene Paste Distn. Lights	91995-17-4	■		13 Jan 2010
18	Anthracene oil, Anthracene paste, Anthracene fraction	91995-15-2	■		13 Jan 2010
19	Anthracene oil, anthracene-low	90640-82-7	■		13 Jan 2010
20	Anthracene oil, Anthracene paste	90640-81-6	■		13 Jan 2010
21	Diisobutyl phthalate	84-69-5	■		13 Jan 2010
22	Lead chromate	7758-97-6	■		13 Jan 2010
23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	■		13 Jan 2010
24	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	■		13 Jan 2010
25	Tris(2-chloroethyl)phosphate	115-96-8	■		13 Jan 2010
26	Pitch, Coal Tar, high temperature	65996-93-2	■		13 Jan 2010
27	2,4-Dinitrotoluene	121-14-2	■		13 Jan 2010

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 12 new substances that go into its products as of the date of 13th January 2010 disclosure of REACH compliance.

Amendment B

In a press release dated 30th March 2010, the European Chemicals Agency (ECHA) announced 1 new substance identified as potential Substances of Very High Concern (SVHC). As of 30th March 2010 this substance was formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
28	Acrylamide	79-06-1	■		30 Mar 2010

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 1 new substance that go into its products as of the date of 30th March 2010 disclosure of REACH compliance.

Amendment C

In a press release dated 18th June 2010, the European Chemicals Agency (ECHA) announced 8 new substances identified as potential Substances of Very High Concern (SVHC). As of 18th June 2010, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
29	Ammonium dichromate	7789-09-5	■		18 Jun 2010
30	Boric acid:	-			18 Jun 2010
	Boric acid, crude natural;	11113-50-1;	■		
	Boric acid	10043-35-3			
31	Disodium tetraborate, anhydrous	1303-96-4; 1330-43-4; 12179-04-3	■		18 Jun 2010

32	Potassium chromate	7789-00-6	■		18 Jun 2010
33	Potassium dichromate	7778-50-9	■		18 Jun 2010
34	Sodium chromate	7775-11-3	■		18 Jun 2010
35	Tetraboron disodium heptaoxide, hydrate	12267-73-1	■		18 Jun 2010
36	Trichloroethylene	79-01-6	■		18 Jun 2010

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 8 new substances that go into its products as of the date of 18th June 2010 disclosure of REACH compliance.

Amendment D

In a press release dated 15th December 2010, the European Chemicals Agency (ECHA) announced 8 new substances identified as potential Substances of Very High Concern (SVHC). As of 15th December 2010, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
37	2-Ethoxyethanol	110-80-5	■		15 Dec 2010
38	2-Methoxyethanol	109-86-4	■		15 Dec 2010
39	Acids generated from chromium trioxide and their oligomers: Chromic acid; Oligomers of chromic and dichromic acid; Dichromic acid	- 7738-94-5; - 13530-68-2	■		15 Dec 2010
40	Chromium trioxide	1333-82-0	■		15 Dec 2010
41	Cobalt(II) carbonate	513-79-1	■		15 Dec 2010
42	Cobalt(II) diacetate	71-48-7	■		15 Dec 2010
43	Cobalt(II) dinitrate	10141-05-6	■		15 Dec 2010
44	Cobalt(II) sulphate	10124-43-3	■		15 Dec 2010

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 8 new substances that go into its products as of the date of 15th December 2010 disclosure of REACH compliance.

Amendment E

In a press release dated 20th June 2011, the European Chemicals Agency (ECHA) announced 7 new substances identified as potential Substances of Very High Concern (SVHC). As of 20th June 2011, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
45	2-Ethoxyethyl acetate	111-15-9	■		20 Jun 2011
46	Strontium chromate	7789-06-2	■		20 Jun 2011
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	■		20 Jun 2011
48	Hydrazine	302-01-2; 7803-57-8	■		20 Jun 2011
49	1-Methyl-2-pyrrolidone (NMP)	872-50-4	■		20 Jun 2011
50	1,2,3-Trichloropropane	96-18-4	■		20 Jun 2011
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	■		20 Jun 2011

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 7 new substances that go into its products as of the date of 20th June 2011 disclosure of REACH compliance.

Amendment F

In December 2011, the European Chemicals Agency (ECHA) announced 20 new substances identified as potential Substances of Very High Concern (SVHC). As of 19th December 2011, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
52	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	■		19 Dec 2011
53	Pentazinc chromate octahydroxide	49663-84-5	■		19 Dec 2011
54	Aluminosilicate Refractory Ceramic Fibers are fibers 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, labeling 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 fibers) within variable concentration ranges b) fibers have length weighted geometric errors of 6 or less micrometers (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 (RCF): Refractories, fibres, aluminosilicates	- 142844-00-6	■		19 Dec 2011
55	Zirconia Aluminosilicate Refractory Ceramic Fibers 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: Refractories, fibres, aluminosilicates	- 142844-00-6	■		19 Dec 2011
56	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	■		19 Dec 2011
57	Bis(2-methoxyethyl) phthalate	117-82-8	■		19 Dec 2011
58	2-Methoxyaniline; o-Anisidine	90-04-0	■		19 Dec 2011
59	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	■		19 Dec 2011
60	1,2-Dichloroethane	107-06-2	■		19 Dec 2011
61	Bis(2-methoxyethyl) ether	111-96-6	■		19 Dec 2011
62	Arsenic acid	7778-39-4	■		19 Dec 2011
63	Calcium arsenate	7778-44-1	■		19 Dec 2011
64	Trilead diarsenate	3687-31-8	■		19 Dec 2011
65	N,N-dimethylacetamide	127-19-5	■		19 Dec 2011
66	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	■		19 Dec 2011
67	Dichromium tris (chromate)	24613-89-6	■		19 Dec 2011
68	Phenolphthalein	77-09-8	■		19 Dec 2011
69	Lead diazide, Lead azide	13424-46-9	■		19 Dec 2011
70	Lead styphnate	15245-44-0	■		19 Dec 2011

71	Lead dipicrate	6477-64-1	■		19 Dec 2011
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This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 20 new substances that go into its products as of the date of 19th December 2011 disclosure of REACH compliance.

Amendment G

In June 2012, the European Chemicals Agency (ECHA) announced 13 new substances identified as potential Substances of Very High Concern (SVHC). As of 18th June 2012, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
72	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)	6786-83-0	■		18 Jun 2012
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	■		18 Jun 2012
74	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	■		18 Jun 2012
75	Diboron trioxide	1303-86-2	■		18 Jun 2012
76	1,2-bis(dimethoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	■		18 Jun 2012
77	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)	561-41-1	■		18 Jun 2012
78	Lead(II) bis(methanesulfonate)	17570-76-2	■		18 Jun 2012
79	Formamide	75-12-7	■		18 Jun 2012
80	[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)	548-62-9	■		18 Jun 2012
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	■		18 Jun 2012
82	[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)	2580-56-5	■		18 Jun 2012
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	■		18 Jun 2012
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	■		18 Jun 2012

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 13 new substances that go into its products as of the date of 18th June 2012 disclosure of REACH compliance.

Amendment H

In December 2012, the European Chemicals Agency (ECHA) announced 54 new substances identified as potential Substances of Very High Concern (SVHC). As of 19th December 2012, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
85	4-aminoazobenzene	60-09-3	■		19 Dec 2012
86	Pyrochlore, antimony lead yellow	8012-00-8	■		19 Dec 2012
87	6-methoxy-m-toluidine (p-cresidine)	120-71-8	■		19 Dec 2012
88	Henicosaflluoroundecanoic acid	2058-94-8	■		19 Dec 2012
89	Hexahydromethylphthalic anhydride including cis- and trans- stereo isomeric forms and all possible combinations of the isomers: Hexahydro-1-methylphthalic anhydride; Hexahydro-3-methylphthalic anhydride; Hexahydromethylphthalic anhydride; Hexahydro-4-methylphthalic anhydride	- 48122-14-1; 57110-29-9; 25550-51-0; 19438-60-9	■		19 Dec 2012
90	Cyclohexane-1,2-dicarboxylic anhydride all possible combinations of the cis- and trans-isomers: cis-cyclohexane-1,2-dicarboxylic anhydride; trans-cyclohexane-1,2-dicarboxylic anhydride; Cyclohexane-1,2-dicarboxylic anhydride	- 13149-00-3; 14166-21-3; 85-42-7	■		19 Dec 2012
91	Dibutyltin dichloride (DBTC)	683-18-1	■		19 Dec 2012
92	Lead bis(tetrafluoroborate)	13814-96-5	■		19 Dec 2012
93	Lead dinitrate	10099-74-8	■		19 Dec 2012
94	Silicic acid, lead salt	11120-22-2	■		19 Dec 2012
95	Lead titanium zirconium oxide	12626-81-2	■		19 Dec 2012
96	Lead monoxide (lead oxide)	1317-36-8	■		19 Dec 2012
97	o-Toluidine	95-53-4	■		19 Dec 2012
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolid ine	143860-04-2	■		19 Dec 2012
99	Silicic acid (H ₂ SiO 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 082-001-006 in regulation (EC) No 1272/2008]	68784-75-8	■		19 Dec 2012
100	Trilead bis(carbonate)dihydroxide	1319-46-6	■		19 Dec 2012
101	Furan	110-00-9	■		19 Dec 2012
102	N,N-dimethylformamide	68-12-2	■		19 Dec 2012
103	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues: 2-{2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethoxy}ethanol; 20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol; 2-[[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol; 2-[[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethan-1-ol	- 2315-61-9 2497-59-8 9002-93-1 2315-67-5	■		19 Dec 2012
104	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	-	■		19 Dec 2012

	which include any of the individual isomers or a combination thereof:				
	p-nonylphenol;	104-40-5;			
	p-(1-methyloctyl)phenol;	17404-66-9;			
	p-isononylphenol;	26543-97-5;			
	4-(1-Ethyl-1,4-Dimethylpentyl)Phenol;	142731-63-3;			
	4-(1-Ethyl-1,3-Dimethylpentyl)Phenol;	186825-36-5;			
	4-(1-ethyl-1-methylhexyl)phenol;	52427-13-1;			
	p-(1,1-dimethylheptyl)phenol;	30784-30-6;			
	Phenol, 4-nonyl-, branched;	84852-15-3;			
	4-(3-ethylheptan-2-yl)phenol;	186825-39-8;			
	Nonylphenol;	25154-52-3;			
	Phenol, nonyl-, branched;	90481-04-2;			
	4-(1,1,5-Trimethylhexyl)phenol;	521947-27-3;			
	Isononylphenol	11066-49-2			
105	4,4'-methylenedi-o-toluidine	838-88-0	■		19 Dec 2012
106	Diethyl sulphate	64-67-5	■		19 Dec 2012
107	Dimethyl sulphate	77-78-1	■		19 Dec 2012
108	Lead oxide sulfate	12036-76-9	■		19 Dec 2012
109	Lead titanium trioxide	12060-00-3	■		19 Dec 2012
110	Acetic acid, lead salt, basic	51404-69-4	■		19 Dec 2012
111	[Phthalato(2-)]dioxotrilead	69011-06-9	■		19 Dec 2012
112	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	■		19 Dec 2012
113	N-methylacetamide	79-16-3	■		19 Dec 2012
114	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	■		19 Dec 2012
115	1,2-Diethoxyethane	629-14-1	■		19 Dec 2012
116	Tetralead trioxide sulphate	12202-17-4	■		19 Dec 2012
117	n-pentyl-isopentylphthalate	776297-69-9	■		19 Dec 2012
118	Dioxobis(stearato)trilead	12578-12-0	■		19 Dec 2012
119	Tetraethyllead	78-00-2	■		19 Dec 2012
120	Pentalead tetraoxide sulphate	12065-90-6	■		19 Dec 2012
121	Pentacosafuorotridecanoic acid	72629-94-8	■		19 Dec 2012
122	Tricosafuorododecanoic acid	307-55-1	■		19 Dec 2012
123	Heptacosafuorotetradecanoic acid	376-06-7	■		19 Dec 2012
124	1-bromopropane (n-propyl bromide)	106-94-5	■		19 Dec 2012
125	Methoxyacetic acid	625-45-6	■		19 Dec 2012
126	Methyloxirane (Propylene oxide)	75-56-9	■		19 Dec 2012
127	Trilead dioxide phosphonate	12141-20-7	■		19 Dec 2012
128	o-aminoazotoluene	97-56-3	■		19 Dec 2012
129	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	■		19 Dec 2012
130	4,4'-oxydianiline and its salts:	-	■		19 Dec 2012
	4,4'-oxydianiline	101-80-4			

131	Orange lead (lead tetroxide)	1314-41-6	■		19 Dec 2012
132	Biphenyl-4-ylamine	92-67-1	■		19 Dec 2012
133	Diisopentyl phthalate	605-50-5	■		19 Dec 2012
134	Fatty acids, C16-18, lead salts	91031-62-8	■		19 Dec 2012
135	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	■		19 Dec 2012
136	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	■		19 Dec 2012
137	Sulfurous acid, lead salt, dibasic	62229-08-7	■		19 Dec 2012
138	Lead cyanamidate	20837-86-9	■		19 Dec 2012

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 54 new substances that go into its products as of the date of 19th December 2012 disclosure of REACH compliance.

Amendment I

On 19th June 2013, the European Chemicals Agency (ECHA) announced 6 new substances identified as potential Substances of Very High Concern (SVHC). As of 20th June 2013, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
139	Cadmium	7440-43-9	■		20 Jun 2013
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	■		20 Jun 2013
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	■		20 Jun 2013
142	Dipentyl phthalate (DPP)	131-18-0	■		20 Jun 2013
143	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:	-			20 Jun 2013
	Nonylphenol, ethoxylated (6,5-EO);	9016-45-9;			
	Nonylphenol, branched, ethoxylated (1 - 2.5 moles ethoxylated);	68412-54-4;			
	Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched;	68412-54-4;			
	Poly (oxy-1,2-ethanediyl), alpha -(nonylphenyl)-omega-hydroxy-, branched;	-	■		
	4-Nonylphenol, ethoxylated;	26027-38-3;			
	Nonylphenol, ethoxylated (15-EO);	9016-45-9;			
	20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol;	27942-27-4;			
	Nonylphenol, ethoxylated;	9016-45-9;			
	26-(4-Nonylphenoxy)-3,6,9,12,15,18,21,24-octaohexacosan -1-ol;	14409-72-4;			
	2-[2-(4-nonylphenoxy)ethoxy]ethanol;	20427-84-3;			

2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol;	7311-27-5;			
Nonylphenol, ethoxylated (8-EO);	9016-45-9;			
Nonylphenol, ethoxylated (10-EO);	9016-45-9;			
Poly(oxy-1,2-ethanediyl), α -(nonylphenyl)- ω -hydroxy;	9016-45-9;			
14-(nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol;	26264-02-8;			
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol;	26571-11-9;			
2-[2-(nonylphenoxy)ethoxy]ethanol;	27176-93-8;			
20-(nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol;	27177-03-3;			
23-(nonylphenoxy)-3,6,9,12,15,18,21-heptaoxatricosan-1-ol;	27177-05-5;			
29-(nonylphenoxy)-3,6,9,12,15,18,21,24,27-nonaoxanonacosanol;	27177-08-8;			
2-(nonylphenoxy)ethanol;	27986-36-3;			
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol;	42173-90-0;			
44-(nonylphenoxy)-3,6,9,12,15,18,21,24,27,30,33,36,39,42-tetradeca-oxatetratetracontanol;	57321-10-5;			
20-(isononylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol;	65455-69-8;			
4-Nonylphenol, branched, ethoxylated;	127087-87-0;			
Nonylphenolpolyglycoether;	-			
2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol;	1119449-37-4;			
Isononylphenol, ethoxylated;	37205-87-1;			
17-(4-nonylphenoxy)-3,6,9,12,15-pentaoxaheptadecan-1-ol;	34166-38-6;			
4-Nonylphenol, branched, ethoxylated;	127087-87-0;			
2-(isononylphenoxy)ethanol;	284-987-5;			
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)-, branched;	91648-64-5;			
3,6,9,12,15,18,21,24,27-Nonaoxanonacosan-1-ol, 29-(isononylphenoxy);	65455-72-3;			
3,6,9,12,15-Pentaoxaheptadecan-1-ol, 17-(nonylphenoxy);	27177-01-1;			
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy);	20636-48-0;			

	4-t-Nonylphenol-diethoxylate; 2-(4-nonylphenoxy)ethanol; Nonylphenol, ethoxylated (EO = 10); 2-{2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy}ethanol; Nonylphenol, ethoxylated (polymer); Nonylphenol, ethoxylated (EO = 4)	156609-10-8; 104-35-8; - 1119449-38-5; - -			
144	Cadmium oxide: Monteponite (CdO)	1306-19-0; 12139-21-8	■		20 Jun 2013

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 6 new substances that go into its products as of the date of 20th June 2013 disclosure of REACH compliance.

Amendment J

On 10th December 2013, the European Chemicals Agency (ECHA) announced 7 new substances identified as potential Substances of Very High Concern (SVHC). As of 16th December 2013, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
145	Cadmium sulphide	1306-23-6	■		16 Dec 2013
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminona phthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	■		16 Dec2013
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphe nyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulpho nate (C.I. Direct Black 38)	1937-37-7	■		16 Dec 2013
148	Diethyl phthalate	84-75-3	■		16 Dec 2013
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	■		16 Dec2013
150	Lead di(acetate)	301-04-2	■		16 Dec 2013
151	Triethyl phosphate	25155-23-1	■		16 Dec 2013

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 7 new substances that go into its products as of the date of 16th December 2013 disclosure of REACH compliance.

Amendment K

On 16th June 2013, the European Chemicals Agency (ECHA) announced 4 new substances identified as potential Substances of Very High Concern (SVHC). As of 16th June 2013, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
152	Cadmium chloride: cadmium chloride (CdCl ₂), hydrate (2:5)	10108-64-2; 7790-78-5	■		16 Jun 2014
153	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4	■		16 Jun 2014

154	Sodium peroxometaborate	7632-04-4	■		16 Jun 2014
155	Sodium perborate; perboric acid, sodium salt:	-	■		16 Jun 2014
	Perboric acid, sodium salt, tetrahydrate ();	37244-98-7;			
	Perboric acid (HBO(O ₂)), sodium salt, tetrahydrate;	10486-00-7;			
	Sodium perborate monohydrate;	10332-33-9;			
	Sodium perborate;	15120-21-5;			
	Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium (1:2);	90568-23-3;			
	Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium, hydrate (1:2:6);	125022-34-6;			
	Perboric acid, sodium salt;	11138-47-9;			
	Perboric acid (H ₃ BO ₂ (O ₂)), monosodium salt, trihydrate	13517-20-9			

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 4 new substances that go into its products as of the date of 16th June 2014 disclosure of REACH compliance.

Amendment L

On 17th December 2014, the European Chemicals Agency (ECHA) announced 6 new substances identified as potential Substances of Very High Concern (SVHC). As of 17th December 2014, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
156	Cadmium sulphate:	10124-36-4;	■		17 Dec 2014
	Sulfuric acid, cadmium salt, hydrate (3:3:8);	31119-53-6;			
	Sulfuric acid, cadmium salt (1:1), hydrate	7790-84-3;			
		15244-35-6			
157	Cadmium fluoride	7790-79-6	■		17 Dec 2014
158	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	■		17 Dec 2014
159	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)	-	■		17 Dec 2014
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	■		17 Dec 2014
161	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	■		17 Dec 2014

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 6 new substances that go into its products as of the date of 17th December 2014 disclosure of REACH compliance.

Amendment M

On 15th June 2015, the European Chemicals Agency (ECHA) announced 2 new substances identified as potential Substances of Very High Concern (SVHC). As of 15th June 2014, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5):	-			15 Jun 2015
	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters;	68648-93-1;	■		
	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl ester	68515-51-5			
163	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:	-			15 Jun 2015
	1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl);	186309-28-4;			
	1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl);	117933-89-8;			
	1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-rel;	343934-04-3;			
	1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans;	676367-09-2;			
	1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-rel;	343934-05-4;			
	1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis;	676367-04-7;	■		
	1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans;	676367-08-1;			
	1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis;	676367-03-6;			
	1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans;	676367-07-0;			
	1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis;	676367-02-5;			
	1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans;	676367-06-9;			
	Reaction mass of 5-[(2R)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1R,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-	-			

	dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane;				
	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane;	-			
	5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane;	-			
	Reaction mass of 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane and 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane;	-			
	1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis	676367-05-8			

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 2 new substances that go into its products as of the date of 15th June 2015 disclosure of REACH compliance.

Amendment N

On 22nd January 2016, the European Chemicals Agency (ECHA) announced 5 new substances identified as potential Substances of Very High Concern (SVHC). As of 17th December 2015 these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
164	1,3-propanesultone	1120-71-4	■		17 Dec 2015
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	■		17 Dec 2015
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl-phenol (UV-350)	36437-37-3	■		17 Dec 2015
167	Nitrobenzene	98-95-3	■		17 Dec 2015
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts: Ammonium salts of perfluorononan-1-oic-acid; Perfluorononan-1-oic-acid; Sodium salts of perfluorononan-1-oic-acid	- 4149-60-4; 375-95-1; 21049-39-8	■		17 Dec 2015

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 5 new substances that go into its products as of the date of 22nd January 2016 disclosure of REACH compliance.

Amendment O

On 11th July 2016, the European Chemicals Agency (ECHA) announced 1 new substance identified as potential Substances of Very High Concern (SVHC). As of 20th June 2016, this substance was formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
169	Benzo[def]chrysene (Benzo[a]phenol)	50-32-8	■		20 Jun 2016

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 1 new substance that go into its products as of the date of 20th June 2016 disclosure of REACH compliance.

Amendment P

On 12th January 2017, the European Chemicals Agency (ECHA) announced 4 new substances identified as potential Substances of Very High Concern (SVHC). As of 12th January 2017, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
170	p-(1,1-dimethylpropyl)phenol	80-46-6	■		12 Jan 2017
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts: Nonadecafluorodecanoic acid; sodium nonadecafluorodecanoate; Ammonium nonadecafluorodecanoate	- 335-76-2; 3830-45-3; 3108-42-7	■		12 Jan 2017
172	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: Phenol, heptyl derivs.; 4-(2,3,3-trimethylbutan-2-yl)phenol; 4-(2,4-dimethylpentan-2-yl)phenol; 4-(3-ethylpentan-3-yl)phenol; 4-(2-methylhexan-2-yl)phenol; 4-(3,3-dimethylpentan-2-yl)phenol; 4-(3-methylhexan-2-yl)phenol; 4-(4,4-dimethylpentan-2-yl)phenol; 4-(4-methylhexan-2-yl)phenol; 4-(3-methylhexan-3-yl)phenol; 4-(2,2-dimethylpentan-3-yl)phenol; 4-(5-methylhexan-3-yl)phenol; 4-(heptan-3-yl)phenol; 4-(heptan-2-yl)phenol;	- 72624-02-3; 72861-06-4; 33104-11-9; 37872-24-5; 30784-31-7; 911371-06-7; 854904-93-1; 911371-07-8; 71945-81-8; 30784-32-8; 861010-65-3; 854904-92-0; 6465-74-3; 6863-24-7;	■		12 Jan 2017

	4-(heptan-4-yl)phenol;	6465-71-0;			
	4-(3-ethylpentyl)phenol;	911370-98-4;			
	4-(3-methylhexyl)phenol;	102570-52-5;			
	4-(4-methylhexyl)phenol;	1139800-98-8;			
	4-(5-methylhexyl)phenol;	100532-36-3;			
	4-(2,4-dimethylpentan-3-yl)phenol;	1824346-00-0;			
	4-(2,3-dimethylpentan-2-yl)phenol;	861011-60-1;			
	Phenol, 4-(1-ethyl-1,2-dimethylpropyl);	30784-27-1;			
	Phenol, 4-tert-heptyl;	288864-02-8;			
	4-(5-methylhexan-2-yl)phenol	857629-71-1			
173	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	■		12 Jan 2017

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 4 new substances that go into its products as of the date of 12th January 2017, disclosure of REACH compliance.

Amendment Q

On 7th July 2017, the European Chemicals Agency (ECHA) announced 1 new substance identified as potential Substances of Very High Concern (SVHC). As of 7th July 2017, this substance was formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
174	Perfluorohexane-1-sulphonic acid and its salts PFHxS:	-			
	ammonium perfluorohexane-1-sulphonate;	68259-08-5;			
	perfluorohexane-1-sulphonic acid;	355-46-4;			
	tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1);	70225-16-0;			
	potassium perfluorohexane-1-sulphonate;	3871-99-6;	■		07 Jul 2017
	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate;	108427-55-0;			
	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	1000597-52-3;			
	Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-,	1310480-24-0;			

1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);				
Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	1310480-27-3;			
Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	1310480-28-4;			
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1);	1329995-45-0;			
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1);	1329995-69-8;			
Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	144116-10-9;			
Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	1462414-59-0;			
Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	153443-35-7;			
Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1);	189274-31-5;			
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1);	202189-84-2;			
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	213740-81-9;			
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI);	341035-71-0;			
Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	341548-85-4;			
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1);	350836-93-0;			
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1);	41184-65-0;			
	41242-12-0;			

1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1);	421555-73-9;			
Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2);	421555-74-0;			
Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic;	425670-70-8;			
Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	55120-77-9;			
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1);	70136-72-0;			
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt;	72033-41-1;			
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1);	82382-12-5;			
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt;	866621-50-3;			
Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9Cl);	910606-39-2;			
Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	911027-68-4;			
Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	911027-69-5;			
Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate;	108427-54-9;			
N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate;	928049-42-7;			
Dibenzo[k,n] [1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1);	92011-17-1;			
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1);	1187817-57-7			

	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1)				
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This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 1 new substance that go into its products as of the date of 7th July 2017, disclosure of REACH compliance.

Amendment R

On 15th January 2018, the European Chemicals Agency (ECHA) announced 6 new substances identified as potential Substances of Very High Concern (SVHC). As of 15th January 2018, this substance was formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
175	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): Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.; Formaldehyde, reaction products with branched and linear heptylphenol, carbon disulfide and hydrazine	- 1471311-26-8; 93925-00-9	■		15 Jan 2018
176	Chrysene	218-01-9;	■		15 Jan 2018
177	Cadmium nitrate	10325-94-7	■		15 Jan 2018
178	Cadmium hydroxide	21041-95-2	■		15 Jan 2018
179	Cadmium carbonate	513-78-0	■		15 Jan 2018
180	Benz[a]anthracene	56-55-3;	■		15 Jan 2018

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 6 new substances that go into its products as of the date of 15th January 2018 disclosure of REACH compliance.

Amendment S

On 15th January 2018, the European Chemicals Agency (ECHA) announced 1 new substance identified as potential Substances of Very High Concern (SVHC). As of 15th January 2018, this substance was formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
181	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM) covering any of its individual anti- and syn-isomers or any combination thereof: (1S,2S,5R,6R,9S,10S,13R,14R)-1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.1 ⁶ , ⁹ .0 ² , ¹³ .0 ⁵ , ¹⁰]octadeca-7,15-diene rel-(1R,4S,4aS,6aS,7S,10R,10aR,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene;	- 135821-03-3;	■		15 Jan 2018

1,6,7,8,9,14,15,16,17,17,18,18-dodecachloropentacyclo[12.2.1.1.16,9.02,13.05,10]octadeca-7,15-diene;	13560-89-9;			
(1S,2S,5S,6S,9R,10R,13R,14R)-1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.1 ⁶ , ⁹ .0 ² , ¹³ .0 ⁵ , ¹⁰]octadeca-7,15-diene;	135821-74-8;			
rel-(1R,4S,4aS,6aR,7R,10S,10aS,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene;	-			
rel-(1R,4S,4aS,6aS,7S,10R,10aR,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene	-			

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 1 new substance that go into its products as of the date of 15th January 2018 disclosure of REACH compliance.

Amendment T

On 27th June 2018, the European Chemicals Agency (ECHA) announced 10 new substances identified as potential Substances of Very High Concern (SVHC). As of 27th June 2018, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
182	Terphenyl, hydrogenated	61788-32-7	■		27 Jun 2018
183	Octamethylcyclotetrasiloxane	556-67-2	■		27 Jun 2018
184	Lead	7439-92-1	■		27 Jun 2018
185	Ethylenediamine	107-15-3	■		27 Jun 2018
186	Dodecamethylcyclohexasiloxane	540-97-6	■		27 Jun 2018
187	Disodium octaborate	12008-41-2	■		27 Jun 2018
188	Dicyclohexyl phthalate	84-61-7	■		27 Jun 2018
189	Decamethylcyclopentasiloxane	541-02-6	■		27 Jun 2018
190	Benzo[ghi]perylene	191-24-2	■		27 Jun 2018
191	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	■		27 Jun 2018

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 10 new substances that go into its products as of the date of 27th June 2018 disclosure of REACH compliance.

Amendment U

On 15th January 2018, the European Chemicals Agency (ECHA) announced 6 new substances identified as potential Substances of Very High Concern (SVHC). As of 15th January 2018, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
192	Pyrene	129-00-0	■		15 Jan 2019
193	Phenanthrene	85-01-8	■		15 Jan 2019
194	Fluoranthene	206-44-0	■		15 Jan 2019
195	Benzo[k]fluoranthene	207-08-9	■		15 Jan 2019
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	■		15 Jan 2019
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC	15087-24-8	■		15 Jan 2019

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 6 new substances that go into its products as of the date of 15th January 2019 disclosure of REACH compliance.

Amendment V

On 15th July 2018, the European Chemicals Agency (ECHA) announced 4 new substances identified as potential Substances of Very High Concern (SVHC). As of 16th July 2019, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof ;	-	■		16 Jul 2019
	ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate;	62037-80-3;			
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride;	2062-98-8;			
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid;	13252-13-6;			
	potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate;	67118-55-2;			
	Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+);	75579-39-4;			
	Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)	75579-40-7			
199	2-methoxyethyl acetate	110-49-6	■		16 Jul 2019
200	4-tert-butylphenol	98-54-4	■		16 Jul 2019
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP):	-	■		16 Jul 2019
	Tris(nonylphenyl) phosphite;	26523-78-4;			
	Phenol, 4-nonyl-, phosphite (3:1);	3050-88-2;			
	tris(4-nonylphenyl, branched) phosphite;	-			
	Phenol, p-isononyl-, phosphite (3:1);	31631-13-7;			

Phenol, p-sec-nonyl-, phosphite	106599-06-8			
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This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 4 new substances that go into its products as of the date of 16th July 2019 disclosure of REACH compliance.

Amendment W

On 16th January 2020, the European Chemicals Agency (ECHA) announced 4 new substances identified as potential Substances of Very High Concern (SVHC). As of 16th January 2020, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
202	Perfluorobutane sulfonic acid (PFBS) and its salts:	-			16 Jan 2020
	N,N,N-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate;	25628-08-4;			
	magnesium perfluorobutanesulfonate;	507453-86-3;			
	lithium perfluorobutanesulfonate;	131651-65-5;			
	morpholinium perfluorobutanesulfonate;	503155-89-3;			
	1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid;	375-73-5;			
	Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate;	68259-10-9;	■		
	tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate;	220689-12-3;			
	dimethyl(phenyl)sulfonium perfluorobutanesulfonate;	220133-51-7;			
	1-(4-butoxy-1-naphthalenyl)tetrahydrothiophenium 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate;	-			
	Triphenylsulfonium perfluorobutane sulfonate;	144317-44-2;			
	Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate;	29420-49-3;			
	bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate	194999-85-4			
203	Diisohexyl phthalate	71850-09-4	■		16 Jan 2020
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	■		16 Jan 2020
205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	■		16 Jan 2020

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 4 new substances that go into its products as of the date of 16th January 2020 disclosure of REACH compliance.

Amendment X

On 25th June 2020, the European Chemicals Agency (ECHA) announced 4 new substances identified as potential Substances of Very High Concern (SVHC). As of 25th June 2020, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
206	1-vinylimidazole	1072-63-5	■		25 Jun 2020
207	2-methylimidazole	693-98-1	■		25 Jun 2020
208	butyl 4-hydroxybenzoate	94-26-8	■		25 Jun 2020
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	■		25 Jun 2020

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 4 new substances that go into its products as of the date of 26th June 2020 disclosure of REACH compliance.

Amendment Y

On 19th January 2021, the European Chemicals Agency (ECHA) announced 2 new substances identified as potential Substances of Very High Concern (SVHC). As of 19th January 2021, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
210	Diocetyl tin dilaurate Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety:	-			19 Jan 2021
	dioctyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.;	-	■		
	Stannane, dioctyl-, bis(coco acyloxy) derivs.;	91648-39-4;			
	Diocetyl tin dilaurate	3648-18-8			
211	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	■		19 Jan 2021

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 2 new substances that go into its products as of the date of 19th January 2021 disclosure of REACH compliance.

Amendment Z

On 8th July 2021, the European Chemicals Agency (ECHA) announced 8 new substances identified as potential Substances of Very High Concern (SVHC). As of 8th July 2021, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
212	1,4-dioxane	123-91-1	■		08 Jul 2021
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA):	-	■		08 Jul 2021
	2,2-bis(bromomethyl)propane-1,3-diol (BMP);	3296-90-0;			
	2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA);	36483-57-5;			

	3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	1522-92-5; 96-13-9			
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers: (2R)-3-(4-tert-butylphenyl)-2-methylpropanal; 2-(4-tert-butylbenzyl)propionaldehyde; (2S)-3-(4-tert-butylphenyl)-2-methylpropanal	- 75166-31-3; 80-54-6; 75166-30-2	■		08 Jul 2021
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	■		08 Jul 2021
216	Glutaral	111-30-8	■		08 Jul 2021
217	Medium-chain chlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17: di-, tri- and tetrachlorotetradecane; Alkanes, C14-17, chloro; Tetradecane, chloro derivs.; Alkanes, C14-16, chloro	- - 85535-85-9; 198840-65-2; 1372804-76-6	■		08 Jul 2021
218	Orthoboric acid, sodium salt: Boric acid, sodium salt; Orthoboric acid, sodium salt; boric acid (H3BO3), sodium salt, hydrate; boric acid (H3BO3), sodium salt (1:1); Boric acid (H3BO3), disodium salt; Trisodium orthoborate	- 1333-73-9; 13840-56-7; 25747-83-5; 14890-53-0; 22454-04-2; 14312-40-4	■		08 Jul 2021
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP): 4-isododecylphenol; Phenol, tetrapropylene; Phenol, 4-dodecyl, branched; Phenol, (tetrapropenyl) derivatives; Phenol, 4-isododecyl; Phenol, dodecyl-, branched	- 27459-10-5; 57427-55-1; 210555-94-5; 74499-35-7; 27147-75-7; 121158-58-5	■		08 Jul 2021

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 8 new substances that go into its products as of the date of 8th July 2021 disclosure of REACH compliance.

Amendment A1

On 17th January 2022, the European Chemicals Agency (ECHA) announced 4 new substances identified as potential Substances of Very High Concern (SVHC). As of 17th January 2022, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC):	-			17 Jan 2022
	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one;	36861-47-9;			
	(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one;	1782069-81-1;			
	(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one;	95342-41-9;	■		
	(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one;	852541-30-1;			
	(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one;	852541-21-0;			
	(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one;	741687-98-9;			
	(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-25-4			
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	■		17 Jan 2022
222	S-(tricyclo(5.2.1.0' ² ,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	■		17 Jan 2022
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	■		17 Jan 2022

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 4 new substances that go into its products as of the date of 17th January 2022 disclosure of REACH compliance.

Amendment B1

On 10th June 2022, the European Chemicals Agency (ECHA) announced 1 new substance identified as potential Substances of Very High Concern (SVHC). As of 10th June 2022, this substance was formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
224	N-(hydroxymethyl)acrylamide	924-42-5	■		10 Jun 2022

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 1 new substance that go into its products as of the date of 10th June 2022 disclosure of REACH compliance.

Amendment C1

On 17th January 2023, the European Chemicals Agency (ECHA) announced 9 new substances identified as potential Substances of Very High Concern (SVHC). As of 17th January 2023, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
225	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	■		17 Jan 2023
226	Perfluoroheptanoic acid and its salts: Ammonium perfluoroheptanoate; potassium perfluoroheptanoate; Perfluoroheptanoic acid; Sodium perfluoroheptanoate	- 6130-43-4 21049-36-5 375-85-9 20109-59-5	■		17 Jan 2023
227	Melamine	108-78-1	■		17 Jan 2023
228	Isobutyl 4-hydroxybenzoate	4247-02-3	■		17 Jan 2023
229	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof: Bis(2-ethylhexyl) tetrabromophthalate	- 26040-51-7	■		17 Jan 2023
230	Barium diboron tetraoxide	13701-59-2	■		17 Jan 2023
231	4,4'-sulphonyldiphenol	80-09-1	■		17 Jan 2023
232	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	■		17 Jan 2023
233	1,1'-[ethane-1,2-diylbisoxo]bis[2,4,6-tribromobenzene]	37853-59-1	■		17 Jan 2023

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 9 new substances that go into its products as of the date of 17th January 2023 disclosure of REACH compliance.

Amendment D1

On 14th June 2023, the European Chemicals Agency (ECHA) announced 2 new substances identified as potential Substances of Very High Concern (SVHC). As of 14th June 2023, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	■		14 Jun 2023
235	Bis(4-chlorophenyl) sulphone	80-07-9	■		14 Jun 2023

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 2 new substances that go into its products as of the date of 14th June 2023 disclosure of REACH compliance.

Amendment E1

On 23rd January 2024, the European Chemicals Agency (ECHA) announced 5 new substances identified as potential Substances of Very High Concern (SVHC). As of 23rd January 2024, these substances were formally added to the Candidate List, as per list below: -

No.	Substance Name	CAS NO.	Not Used	Used	Date of Inclusion
236	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol: Phenol, methylstyrenated	- 68512-30-1	■		23 Jan 2024
237	Bumetrizole (UV-326)	3896-11-5	■		23 Jan 2024
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	■		23 Jan 2024
239	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	■		23 Jan 2024
240	2,4,6-tri-tert-butylphenol	732-26-3	■		23 Jan 2024

This updated status is based on Carclo Optics' understanding of REACH and Carclo Optics' knowledge of the 5 new substances that go into its products as of the date of 23rd January 2024 disclosure of REACH compliance.

For and on behalf of
Carclo Optics Limited.

Signature:



Hollie Evans • Quality Manager

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