



Warranty of meeting the regulation of REACH

TO: Our Valued Customers

SUBJECT: EU Directive 1907/2006 on REACH

Coretek is aware of the Substance of Very High Concern (**SVHC, See the table below**) and warrants that all the substance of the products and components shall meet the regulation of REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) from EU. Coretek's top management and all personnel unanimously promise to comply with this Warranty and carry it out indeed.

	Name of Substance	CAS No.	EC No.
1	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0
2	Diarsenic pentaoxide	1303-28-2	215-116-9
3	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:		
	gamma-hexabromocyclododecane	134237-52-8	-
	beta-hexabromocyclododecane	134237-51-7	-
	Hexabromocyclododecane	25637-99-4	247-148-4
	1,2,5,6,9,10-hexabromocyclodecane	3194-55-6	221-695-9
	alpha-hexabromocyclododecane	134237-50-6	-
4	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
5	Lead hydrogen arsenate	7784-40-9	232-064-2
6	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
7	Anthracene	120-12-7	204-371-1
8	Diarsenic trioxide	1327-53-3	215-481-4
9	Dibutyl phthalate (DBP)	84-74-2	201-557-4
10	Triethyl arsenate	15606-95-8	427-700-2
11	Bis(tributyltin) oxide (TBTO)	56-35-9	200-268-0
12	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4
13	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	201-329-4
14	Sodium dichromate	10588-01-9, 7789-12-0	234-190-3
15	Anthracene oil, anthracene paste	90640-81-6	292-603-2
16	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2
17	Anthracene oil, anthracene paste, distn lights	91995-17-4	295-278-5
18	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
19	Pitch, coal tar, high temperature	65996-93-2	266-028-2
20	Anthracene oil, Anthraceneoil	90640-80-5	292-602-7



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	Name of Substance	CAS No.	EC No.
21	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]	-	-
22	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9
23	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5
24	2,4-dinitrotoluene	121-14-2	204-450-0
25	Anthracene oil, anthracene-low	90640-82-7	292-604-8
26	Lead chromate	7758-97-6	231-846-0
27	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9
28	Acrylamide	79-06-1	201-173-7
29	Boric acid[EC No. 233-139-2 and EC No. 234-343-4] Boric acid, crude natural Boric acid	11113-50-1 10043-35-3	234-343-4 233-139-2
30	Potassium chromate	7789-00-6	232-140-5
31	Sodium chromate	7775-11-3	231-889-5
32	Trichloroethylene	79-01-6	201-167-4
33	Ammonium dichromate	7789-09-5	232-143-1
34	Potassium dichromate	7778-50-9	231-906-6
35	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
36	Disodium tetraborate, anhydrous	12179-04-3, 1303-96-4, 1330-43-4	215-540-4
37	2-ethoxyethanol	110-80-5	203-804-1
38	Cobalt(II) sulphate	10124-43-3	233-334-2
39	Cobalt(II) dinitrate	10141-05-6	233-402-1
40	Chromium trioxide	1333-82-0	215-607-8
41	2-methoxyethanol	109-86-4	203-713-7
42	Cobalt(II) diacetate	71-48-7	200-755-8
43	Cobalt(II) carbonate	513-79-1	208-169-4
44	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1
45	2-ethoxyethyl acetate	111-15-9	203-839-2
46	Strontium chromate	7789-06-2	232-142-6
47	1-Methyl-2-pyrrolidone(NMP)	872-50-4	212-828-1
48	Cobalt dichloride	7646-79-9	231-589-4



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	Name of Substance	CAS No.	EC No.
49	Acids generated from chromium trioxide and their oligomers		
	Dichromic acid	7738-94-5	236-881-5
	Chromic acid	13530-68-2	231-801-5
	Oligomers of chromic acid and dichromic acid	-	-
50	Hydrazine	302-01-2, 7803-57-8	206-114-9
51	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6
52	1,2,3-trichloropropane	96-18-4	202-486-1
53	Dichromium tris(chromate)	24613-89-6	246-356-2
54	Phenolphthalein	77-09-8	201-004-7
55	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
56	Lead styphnate	15245-44-0	239-290-0
57	Lead diazide, Lead azide	13424-46-9	236-542-1
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
59	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
60	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2
61	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
62	1,2-dichloroethane	107-06-2	203-458-1
63	Trilead diarsenate	3687-31-8	222-979-5
64	2-Methoxyaniline,o-Anisidine	90-04-0	201-963-1
65	Arsenic acid	7778-39-4	231-901-9
66	N,N-dimethylacetamide	127-19-5	204-826-4
67	Lead dipicrate	6477-64-1	229-335-2
68	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8
69	Bis(2-methoxyethyl) ether	111-96-6	203-924-4
70	Calcium arsenate	7778-44-1	231-904-5
71	1,2-bis(2-methoxyethoxy)ethane(TEGDME,triglyme)	112-49-2	203-977-3
72	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
73	Diboron trioxide	1303-86-2	215-125-8
74	Formamide	75-12-7	200-842-0
75	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
76	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3
77	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-tri one (β-TGIC)	59653-74-6	423-400-0
78	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1



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	Name of Substance	CAS No.	EC No.
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethyl ammonium 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
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]meth ylene]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
83	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
84	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
85	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
86	Henicosfluoroundecanoic acid	2058-94-8	218-165-4
87	Hexahydromethylphthalic anhydride[including cis- and trans- stereo isomeric forms and all possible combinations of the isomers] Hexahydro-1-methylphthalic anhydride Hexahydromethylphthalic anhydride Hexahydro-4-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride	48122-14-1 25550-51-0 19438-60-9 57110-29-9	256-356-4 247-094-1 243-072-0 260-566-1
88	Cyclohexane-1,2-dicarboxylic anhydride[all possible combinations of the cis- and trans-isomers] cis-cyclohexane-1,2-dicarboxylic anhydride Cyclohexane-1,2-dicarboxylic anhydride trans-cyclohexane-1,2-dicarboxylic anhydride	13149-00-3 85-42-7 14166-21-3	236-086-3 201-604-9 238-009-9
89	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0
90	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
91	Lead dinitrate	10099-74-8	233-245-9
92	Silicic acid, lead salt	11120-22-2	234-363-3
93	4-aminoazobenzene	60-09-3	200-453-6
94	Lead titanium zirconium oxide	12626-81-2	235-727-4
95	Lead monoxide (lead oxide)	1317-36-8	215-267-0
96	o-toluidine	95-53-4	202-429-0
97	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
98	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6
99	Furan	110-00-9	203-727-3
100	N,N-dimethylformamide	68-12-2	200-679-5
101	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
102	Diethyl sulphate	64-67-5	200-589-6



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	Name of Substance	CAS No.	EC No.
103	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 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	272-271-5
104	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
105	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]	-	-
106	Dimethyl sulphate	77-78-1	201-058-1
107	Lead oxide sulfate	12036-76-9	234-853-7
108	Lead titanium trioxide	12060-00-3	235-038-9
109	Acetic acid, lead salt, basic	51404-69-4	257-175-3
110	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
111	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9
112	N-methylacetamide	79-16-3	201-182-6
113	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7
114	1,2-diethoxyethane	629-14-1	211-076-1
115	Tetralead trioxide sulphate	12202-17-4	235-380-9
116	N-pentyl-isopentylphthalate	776297-69-9	-
117	Dioxobis(stearato)trilead	12578-12-0	235-702-8
118	Tetraethyllead	78-00-2	201-075-4
119	Pentalead tetraoxide sulphate	12065-90-6	235-067-7
120	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
121	Tricosafuorododecanoic acid	307-55-1	206-203-2
122	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4
123	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0
124	Methoxyacetic acid	625-45-6	210-894-6
125	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1
126	Methyloxirane (Propylene oxide)	75-56-9	200-879-2
127	Trilead dioxide phosphonate	12141-20-7	235-252-2
128	o-aminoazotoluene	97-56-3	202-591-2
129	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	284-032-2
130	4,4'-oxydianiline and its salts: 4,4'-oxydianiline	101-80-4	202-977-0
131	Orange lead (lead tetroxide)	1314-41-6	215-235-6
132	Biphenyl-4-ylamine	92-67-1	202-177-1
133	Diisopentyl phthalate	605-50-5	210-088-4
134	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7



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	Name of Substance	CAS No.	EC No.
135	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table3.1 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	-	-
136	Diazene-1,2-dicarboxamide(C,C'-azodi(formamide)) (ADCA)	123-77-3	204-650-8
137	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
138	Lead cyanamidate	20837-86-9	244-073-9
139	Cadmium	7440-43-9	231-152-8
140	Cadmium oxide	1306-19-0	215-146-2
141	Ammonium pentadecafluorooctanoate(APFO)	3825-26-1	223-320-4
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
143	Dipentyl phthalate (DPP)	131-18-0	205-017-9
144	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,ethoxylated covering UVCB- and well-defined substances, polymers and homologues,which include any of the individual isomers and/or combinations thereof]	-	-
145	Cadmium sulphide	215-147-8	1306-23-6
146	Diethyl phthalate	84-75-3	201-559-5
147	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
148	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
149	Imidazolidine-2-thione(2-imidazoline-2-thiol)	96-45-7	202-506-9
150	Lead di(acetate)	301-04-2	206-104-4
151	Triethyl phosphate	25155-23-1	246-677-8
152	Cadmium chloride	10108-64-2	233-296-7
153	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4	271-093-5
154	Sodium peroxometaborate	7632-04-4	231-556-4
155	Cadmium sulphate	10124-36-4, 31119-53-6	233-331-6
156	Cadmium fluoride	7790-79-6	232-222-0
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6
158	Sodium perborate; perboric acid,sodium salt: Sodium perborate Perboric acid, sodium salt	15120-21-5 11138-47-9	239-172-9 234-390-0
159	Nitrobenzene	98-95-3	202-716-0



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	Name of Substance	CAS No.	EC No.
160	2-(2H-benzotriazol-2-yl)-4,6-ditertpent ylphenol (UV-328)	25973-55-1	247-384-8
161	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4
162	2,4-Di--butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8
163	1,3-propanesultone	1120-71-4	214-317-9
164	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl10-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)	-	-
165	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)		
	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters.	68648-93-1	272-013-1
	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters.	68515-51-5	271-094-0
166	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]	-	-
167	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)	36437-37-3	253-037-1
168	Perfluorononan-1-oic acid and its sodium and ammonium Salts		
	Ammonium salts of perfluorononan-1-oic-acid	4149-60-4	-
	Perfluorononan-1-oic-acid	375-95-1	206-801-3
	Sodium salts of perfluorononan-1-oic-acid	21049-39-8	-
169	Benzo[def]chrysene(Benzo[a]pyrene)	50-32-8	200-028-5
170	4,4'-isopropylidenediphenol(bisphenol A)	80-05-7	201-245-8
171	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]	-	-
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7	-
		335-76-2	206-400-3
		3830-45-3	221-470-5
173	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9
174	Perfluorohexane-1-sulphonic acid and its salts(PFHxS)	-	-
175	Chrysene	218-01-9, 1719-03-5	205-923-4
176	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6
177	Cadmium nitrate	10325-94-7, 10022-68-1	233-710-6
178	Cadmium hydroxide	21041-95-2	244-168-5



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	Name of Substance	CAS No.	EC No.
179	Cadmium carbonate	513-78-0	208-168-9
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-
181	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)]	-	-
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride(trimellitic anhydride; TMA)	552-30-7	209-008-0
183	Benzo[ghi]perylene	191-24-2	205-883-8
184	Decamethylcyclopentasiloxane(D5)	541-02-6	208-764-9
185	Dicyclohexyl phthalate(DCHP)	84-61-7	201-545-9
186	Disodium octaborate	12008-41-2	234-541-0
187	Dodecamethylcyclohexasiloxane(D6)	540-97-6	208-762-8
188	Ethylenediamine(EDA)	107-15-3	203-468-6
189	Lead	7439-92-1	231-100-4
190	Octamethylcyclotetrasiloxane(D4)	556-67-2	209-136-7
191	Terphenyl, hydrogenated	61788-32-7	262-967-7

Effective Date: Jul. 03, 2018

Name: C.H. Cheng

Signature:

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Title: Quality Department Assistant Manager