

Certificate of EU REACH Compliance

Acktar Ltd. Hereby declares and certifies that all coatings and products manufactured by Acktar, do not contain any of the REACH Substances of Very High Concern (SVHC), as specified in the table below according to the Candidate list published by ECHA (European Chemical Agency) on June 27th 2018. Including annex XVII (Dec. 2018)

List of Substances of Very High Concern (July 16th 2019)

Index	Chemical Name	EC Number	CAS Number
1	Triethyl arsenate	427-700-2	15606-95-8
2	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9
3	Lead hydrogen arsenate	232-064-2	7784-40-9
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: α – HBCDD, β -HBCDD, γ -HBCDD	247-148-4 221-695-9	25637-99-4, 3194-55-6 134237-50-6 134237-51-7 134237-52-8
5	Dibutyl phthalate (DBP)	201-557-4	84-74-2
6	Diarsenic trioxide	215-481-4	1327-53-3
7	Diarsenic pentaoxide	215-116-9	1303-28-2
8	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9
9	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
10	Anthracene	204-371-1	120-12-7
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
12	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2
13	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9
14	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8
15	Pitch, coal tar, high temp.	266-028-2	65996-93-2
16	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
17	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
18	Lead chromate	231-846-0	7758-97-6
19	Diisobutyl phthalate (DIBP)	201-553-2	84-69-5
20	Anthracene oil, anthracene-low	292-604-8	90640-82-7
21	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4
22	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
23	Anthracene oil, anthracene paste	292-603-2	90640-81-6
24	Anthracene oil	292-602-7	90640-80-5
25	2,4-Dinitrotoluene (2,4-DNT)	204-450-0	121-14-2
26	Acrylamide	201-173-7	79-06-1
27	Trichloroethylene	201-167-4	79-01-6
28	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
29	Sodium chromate	231-889-5	7775-11-3
30	Potassium dichromate	231-906-6	7778-50-9
31	Potassium chromate	232-140-5	7789-00-6

Index	Chemical Name	EC Number	CAS Number
32	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4 12179-04-3
33	Boric acid	233-139-2 234-343-4	10043-35-3 11113-50-1
34	Ammonium dichromate	232-143-1	7789-9-5
35	Cobalt(II) sulphate	233-334-2	10124-43-3
36	Cobalt(II) dinitrate	233-402-1	10141-05-6
37	Cobalt(II) diacetate	200-755-8	71-48-7
38	Cobalt(II) carbonate	208-169-4	513-79-1
39	Chromium trioxide	215-607-8	1333-82-0
40	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.	231-801-5 236-881-5	7738-94-5 13530-68-2
41	2-Methoxyethanol	203-713-7	109-86-4
42	2-Ethoxyethanol	203-804-1	110-80-5
43	Strontium chromate	232-142-6	7789-6-2,
44	Hydrazine	206-114-9	302-01-2, 7803-57-8
45	2-Ethoxyethyl acetate	203-839-2	111-15-9
46	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4
48	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6
49	1,2,3-trichloropropane	202-486-1	96-18-4
50	Cobalt dichloride	231-589-4	7646-79-9
51	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	-	-
52	Trilead diarsenate	222-979-5	3687-31-8
53	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9
54	Phenolphthalein	201-004-7	77-09-8
55	Pentazinc chromate octahydroxide	256-418-0	49663-84-5
56	N,N-dimethylacetamide	204-826-4	127-19-5
57	Lead styphnate	239-290-0	15245-44-0
58	Lead dipicrate	229-335-2	6477-64-1
59	Lead diazide, Lead azide	236-542-1	13424-46-9
60	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4

Index	Chemical Name	EC Number	CAS Number
61	Dichromium tris (chromate)	246-356-2	24613-89-6
62	Calcium arsenate	231-904-5	7778-44-1
63	Bis (2-methoxyethyl) phthalate	204-212-6	117-82-8
64	Bis (2-methoxyethyl) ether	203-924-4	111-96-6
65	Arsenic acid	231-901-9	7778-39-4
66	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	-	-
67	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9
68	2-Methoxyaniline,o-Anisidine	201-963-1	90-04-0
69	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4
70	1,2-Dichloroethane	203-458-1	107-06-2
71	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
72	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1
73	Lead(II) bis (methanesulfonate)	401-750-5	17570-76-2
74	Formamide	200-842-0	75-12-7
75	Diboron trioxide	215-125-8	1303-86-2
76	[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
77	[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
78	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
79	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
80	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
81	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9
82	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
83	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	203-977-3	112-49-2
84	Trilead dioxide phosphonate	235-252-2	12141-20-7

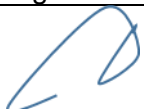
Index	Chemical Name	EC Number	CAS Number
85	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6
86	Tricosafuorododecanoic acid	206-203-2	307-55-1
87	Tetralead trioxide sulphate	235-380-9	12202-17-4
88	Tetraethyllead	201-075-4	78-00-2
89	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
90	Silicic acid, lead salt	234-363-3	11120-22-2
91	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
92	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
93	Pentalead tetraoxide sulphate	235-067-7	12065-90-6
94	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8
95	Orange lead (lead tetroxide)	215-235-6	1314-41-6
96	o-Toluidine	202-429-0	95-53-4
97	o-aminoazotoluene	202-591-2	97-56-3
98	N-pentyl-isopentylphthalate	-	776297-69-9
99	N-methylacetamide	201-182-6	79-16-3
100	N,N-dimethylformamide	200-679-5	68-12-2
101	Methyloxirane (Propylene oxide)	200-879-2	75-56-9
102	Methoxyacetic acid	210-894-6	625-45-6
103	Lead titanium zirconium oxide	235-727-4	12626-81-2
104	Lead titanium trioxide	235-038-9	12060-00-3
105	Lead oxide sulfate	234-853-7	12036-76-9
106	Lead monoxide (lead oxide)	215-267-0	1317-36-8
107	Lead dinitrate	233-245-9	10099-74-8
108	Lead cyanamidate	244-073-9	20837-86-9
109	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
110	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
111	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7
112	Henicosafuoroundecanoic acid	218-165-4	2058-94-8
113	Furan	203-727-3	110-00-9
114	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
115	Dioxobis(stearato)trilead	235-702-8	12578-12-0
116	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
117	Dimethyl sulphate	201-058-1	77-78-1
118	Diisopentylphthalate	210-088-4	605-50-5
119	Diethyl sulphate	200-589-6	64-67-5

Index	Chemical Name	EC Number	CAS Number
120	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
121	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3
122	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
123	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5
124	Biphenyl-4-ylamine	202-177-1	92-67-1
125	Acetic acid, lead salt, basic	257-175-3	51404-69-4
126	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
127	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
128	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]	-	-
129	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
130	4-Aminoazobenzene	200-453-6	60-09-3
131	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
132	4,4'-oxydianiline and its salts	202-977-0	101-80-4
133	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
134	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
135	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
136	1,2-Diethoxyethane	211-076-1	629-14-1
137	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
138	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
139	Dipentyl phthalate (DPP)	205-017-9	131-18-0
140	Cadmium oxide	215-146-2	1306-19-0
141	Cadmium	231-152-8	7440-43-9
142	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1
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]	-	-
144	Trixylyl phosphate	246-677-8	25155-23-1
145	Lead di(acetate)	206-104-4	301-04-2
146	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7
147	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

Index	Chemical Name	EC Number	CAS Number
148	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
149	Dihexyl phthalate	201-559-5	84-75-3
150	Cadmium sulphide	215-147-8	1306-23-6
151	Sodium peroxometaborate	231-556-4	7632-4-4
152	Sodium perborate,perboric acid, sodium salt	239-172-9, 234-390-0	-
153	Cadmium chloride	233-296-7	10108-64-2
154	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	271-093-5	68515-50-4
155	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)	-	-
156	Cadmium sulphate	233-331-6	10124-36-4 31119-53-6
157	Cadmium fluoride	232-222-0	7790-79-6
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1
159	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7
160	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1
161	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7
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]	-	-
163	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
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1, 21049-39-8 4149-60-4
165	1,3-propanesultone	214-317-9	1120-71-4
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
168	Nitrobenzene	202-716-0	98-95-3
169	Benzo[def]chrysene	200-028-5	50-32-8
170	p-(1,1-dimethylpropyl)phenol (PTAP)	201-280-9	80-46-6
171	4-heptylphenol, branched and linear (4-HPbl)	-	-
172	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2
173	4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-

Index	Chemical Name	EC Number	CAS Number
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-
176	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-	-
177	Chrysene	205-923-4	218-01-9, 1719-03-5
178	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7
179	Cadmium hydroxide	244-168-5	21041-95-2
180	Cadmium carbonate	208-168-9	513-78-0
181	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2
182	Octamethylcyclotetrasiloxane	209-136-7	556-67-2
183	Decamethylcyclopentasiloxane	208-764-9	541-02-6
184	Dodecamethylcyclohexasiloxane	208-762-8	540-97-6
185	Lead	231-100-4	7439-92-1
186	Disodium octaborate	234-541-0	12008-41-2
187	Benzo[ghi]perylene	205-883-8	191-24-2
188	Terphenyl, hydrogenated	262-967-7	61788-32-7
189	Ethylenediamine	203-468-6	107-15-3
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	209-008-0	552-30-7
191	Dicyclohexyl phthalate	201-545-9	84-61-7
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6
194	Benzo[k]fluoranthene	205-916-6	207-08-9
195	Fluoranthene	205-912-4	206-44-0; 93951-69-0
196	Phenanthrene	201-581-5	85-01-8
197	Pyrene	204-927-3	129-00-0; 1718-52-1
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-
199	2-methoxyethyl acetate	203-772-9	203-772-9
200	4-tert-butylphenol	202-679-0	98-54-4
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-

All information provided in this Certificate of Compliance is accurate, to the best of our knowledge, as of the date this certification was issued.

Authorized by: Name	Signature	Date
Dina Katsir		Aug. 2019