

No.: 22_19_07_05

Confirmation of REACH Compliance

The company **Kumho Petrochemical Co., Ltd.** having its principal place of business at *13F, East Wing, Signature Towers, #100 Cheonggyecheon-ro, Jung-gu, 100-230, Seoul, South Korea* has appointed **Korea Institute of Science and Technology Europe Forschungsgesellschaft mbH (KIST-Europe)** (UUID: ECHA-0fa08d90-ca78-43db-9070-707c1b5c7467) with its principal offices at *Universitaet des Saarlandes, Campus E 71, D-66123, Saarbruecken, Germany* to act as its Only Representative in compliance with the regulation EC 1907/2006 (REACH: Registrations, Evaluation, Authorization and Restriction of Chemicals).

According to our agreement with **Kumho Petrochemical Co., Ltd.** and the information provided by them, we confirm that no substances in Candidate List of SVHC for Authorization under REACH (updated on 16/07/2019) are contained in following products (products below) produced by **Kumho Petrochemical Co., Ltd.**

No.	Product Name	No.	Product Name	No.	Product Name	No.	Product Name
1	ABS 710	17	ABS 775EG	33	ABS H2938Z	49	ASA XC230
2	ABS 710F	18	ABS 775K	34	ABS HGX4500	50	ASA XC190
3	ABS 720	19	ABS 775W	35	ABS HU600	51	ASA XC190BM
4	ABS 720R	20	ABS 780	36	ABS HU600HP	52	ASA XC190M
5	ABS 722W	21	ABS 780F	37	ABS HU600SK	53	ASA XC220
6	ABS 728	22	ABS 780M	38	ABS HU600SKG	54	ASA XC280G
7	ABS 728W	23	ABS 780W	39	ABS HU600Z	55	ASA XC500
8	ABS 740	24	ABS 795	40	ABS HU601	56	ASA XC500A
9	ABS 745	25	ABS ER872M	41	ABS HU621	57	ASA XC510
10	ABS 750	26	ABS ER875	42	ABS HU650	58	ASA XC510A
11	ABS 750SH	27	ABS 730	43	ABS HU650D	59	ASA XC520
12	ABS 750SW	28	ABS BM510	44	ABS HU650SK	60	HR 181
13	ABS 765	29	ABS BM530	45	ABS HU650ZW	61	HR 190
14	ABS 772	30	ABS H2938	46	AES HW600G	62	HR 191
15	ABS 775	31	ABS H2938DS	47	ASA XC180	63	HAB 8740B
16	ABS 750SW	32	ABS H2938L	48	ASA XC180G	64	HAC 8240B

No.	Product Name	No.	Product Name	No.	Product Name	No.	Product Name
65	HAC 8244	92	HFH 402ND	118	MIB 237	144	SAN 350F
66	HAC 8244D	93	HFH 407	119	MIB MIB C	145	SAN 350HM
67	HAC 8245	94	HFH 412	120	MIB MIB IT	146	SAN 350HW
68	HAC 8250	95	HFH 412H	121	EPS GN12	147	APH 1550F
69	HAC 8250NH	96	HFH 430U	122	EPS GN16	148	SEPS N12
70	HAC 8250W	97	GP 125	123	EPS GN16B	149	SEPS N16
71	HAC 8250P	98	GP 125E	124	EPS GN20	150	SEPS N20
72	HAC 8259	99	GP 125EB	125	EPS GN20HC	151	SEPS N20HC
73	HAC 8265CH. NH	100	GP 125EI	126	EPS GN30	152	SEPS N20SC
74	HAC 8265HR	101	GP 150E	127	HA PNOD	153	SEPS N30
75	HAC 8265P	102	GP 150I	128	HA PNOE	154	EPOR 16S
76	HAC 8270	103	GP 150K	129	HA PNSD	155	EPOR 16I
77	HAC 8271	104	HI 425	130	SAN 300	156	EPOR 20I
78	HAC 8290NH	105	HI 425E	131	SAN 300A	157	EPOR 20IW
79	HAG 5220	106	HI 425EH	132	SAN 300H	158	EPOR 30I
80	HAM 8560A	107	HI 425EP	133	SAN 310TR	159	ABS H2938ZW
81	HAM 8560H	108	HI 425ER	134	SAN 310CTR	160	ABS 780U
82	HAM 8560D	109	HI 425ES	135	SAN 315TR	161	ABS 750HC
83	HAM 8560L	110	HI 425ESH	136	SAN 320A	162	SAN 330EF
84	HSP 8350K	111	HI 425TV	137	SAN 326	163	HR 192
85	HAN 8654	112	HI 425TVG	138	SAN 326A	164	ASA XC640
86	HFA 451	113	HI 425TVL	139	SAN 330	165	SAN 330I E
87	HFA 456	114	HI 450PG	140	SAN 330I	166	SAN 330TR E
88	HFA 700HT	115	HI 450W	141	SAN 335T	167	SAN 340EF
89	HFA 703	116	HI 490FB	142	SAN 350	168	HSG 5137
90	HFA 705	117	HI 470R	143	SAN 350A	169	XD-535
91	HFA 707						

ID	SVHCs name	EC No	% in Product
1	α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol(C.I.SolventBlue4)	229-851-8	n/d
2	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	n/d
3	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	n/d
4	Diboron trioxide	215-125-8	n/d

5	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	n/d
6	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	n/d
7	Lead(II) bis(methanesulfonate)	401-750-5	n/d
8	Formamide	200-842-0	n/d
9	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammoniumchloride(C.I.BasicViolet3)	208-953-6	n/d
10	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	n/d
11	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammoniumchloride(C.I.BasicBlue26)	219-943-6	n/d
12	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	n/d
13	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	n/d
14	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	n/d
15	N,N-dimethylacetamide	204-826-4	n/d
16	Phenolphthalein	201-004-7	n/d
17	Lead diazide, Lead azide	236-542-1	n/d
18	Lead dipicrate	229-335-2	n/d
19	1,2-dichloroethane	203-458-1	n/d
20	Calcium arsenate	231-904-5	n/d
21	Dichromium tris(chromate)	246-356-2	n/d
22	2-Methoxyaniline; o-Anisidine	201-963-1	n/d
23	Pentazinc chromate octahydroxide	256-418-0	n/d
24	Arsenic acid	231-901-9	n/d
25	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	n/d
26	Formaldehyde, oligomeric reaction products with aniline	500-036-1	n/d
27	Lead styphnate	239-290-0	n/d
28	Trilead diarsenate	222-979-5	n/d
29	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	n/d
30	Bis(2-methoxyethyl) phthalate	204-212-6	n/d
31	Aluminosilicate Refractory Ceramic Fibres	-	n/d
32	Bis(2-methoxyethyl) ether	203-924-4	n/d

33	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	n/d
34	Cobalt dichloride	231-589-4	n/d
35	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	n/d
36	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	n/d
37	Strontium chromate	232-142-6	n/d
38	1-Methyl-2-pyrrolidone	212-828-1	n/d
39	1,2,3-Trichloropropane	202-486-1	n/d
40	2-Ethoxyethyl acetate	203-839-2	n/d
41	Hydrazine	206-114-9	n/d
42	Cobalt(II) diacetate	200-755-8	n/d
43	Cobalt(II) sulphate	233-334-2	n/d
44	2-Ethoxyethanol	203-804-1	n/d
45	Acids generated from chromium trioxide and their oligomers.	231-801-5 and 236-881-5	n/d
46	2-Methoxyethanol	203-713-7	n/d
47	Chromium trioxide	215-607-8	n/d
48	Cobalt(II) carbonate	208-169-4	n/d
49	Cobalt(II) dinitrate	233-402-1	n/d
50	Trichloroethylene	201-167-4	n/d
51	Potassium dichromate	231-906-6	n/d
52	Tetraboron disodium heptaoxide, hydrate	235-541-3	n/d
53	Ammonium dichromate	232-143-1	n/d
54	Boric acid	233-139-2 and 234-343-4	n/d
55	Sodium chromate	231-889-5	n/d
56	Disodium tetraborate, anhydrous	215-540-4	n/d
57	Potassium chromate	232-140-5	n/d
58	Acrylamide	201-173-7	n/d
59	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	n/d

60	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	n/d
61	Anthracene oil	292-602-7	n/d
62	2,4-Dinitrotoluene	204-450-0	n/d
63	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	n/d
64	Anthracene oil, anthracene-low	292-604-8	n/d
65	Tris(2-chloroethyl)phosphate	204-118-5	n/d
66	Diisobutyl phthalate	201-553-2	n/d
67	Lead chromate	231-846-0	n/d
68	Anthracene oil, anthracene paste	292-603-2	n/d
69	Pitch, coal tar, high temp.	266-028-2	n/d
70	Anthracene oil, anthracene paste, distn. lights	295-278-5	n/d
71	Lead hydrogen arsenate	232-064-2	n/d
72	Benzyl butyl phthalate (BBP)	201-622-7	n/d
73	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	n/d
74	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	n/d
75	Diarsenic trioxide	215-481-4	n/d
76	Bis(tributyltin)oxide (TBTO)	200-268-0	n/d
77	Triethyl arsenate	427-700-2	n/d
78	Diarsenic pentaoxide	215-116-9	n/d
79	Sodium dichromate	234-190-3	n/d
80	Dibutyl phthalate (DBP)	201-557-4	n/d
81	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	n/d
82	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	n/d
83	Anthracene	204-371-1	n/d
84	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4, 221-695-9	n/d
85	Pyrochlore, antimony lead yellow	232-382-1	n/d
86	6-methoxy-m-toluidine (p-cresidine)	204-419-1	n/d
87	Henicosaflluoroundecanoic acid	218-165-4	n/d

88	Hexahydromethylphthalic anhydride	247-094-1, 243-072-0, 256-356-4 and 260-566-1	n/d
89	Cyclohexane-1,2-dicarboxylic anhydride	201-604-9, 236-086-3 and 238-009-9	n/d
90	Dibutyltin dichloride (DBTC)	211-670-0	n/d
91	Lead bis(tetrafluoroborate)	237-486-0	n/d
92	Lead dinitrate	233-245-9	n/d
93	Silicic acid, lead salt	234-363-3	n/d
94	4-Aminoazobenzene	200-453-6	n/d
95	Lead titanium zirconium oxide	235-727-4	n/d
96	Lead monoxide (lead oxide)	215-267-0	n/d
97	o-Toluidine	202-429-0	n/d
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	n/d
99	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	272-271-5	n/d
100	Trilead bis(carbonate)dihydroxide	215-290-6	n/d
101	Furan	203-727-3	n/d
102	N,N-dimethylformamide	200-679-5	n/d
103	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	n/d
104	4-Nonylphenol, branched and linear	-	n/d
105	4,4'-methylenedi-o-toluidine	212-658-8	n/d
106	Diethyl sulphate	200-589-6	n/d
107	Dimethyl sulphate	201-058-1	n/d
108	Lead oxide sulfate	234-853-7	n/d
109	Lead titanium trioxide	235-038-9	n/d
110	Acetic acid, lead salt, basic	257-175-3	n/d
111	[Phthalato(2-)]dioxotrilead	273-688-5	n/d
112	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	n/d
113	N-methylacetamide	201-182-6	n/d
114	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	n/d

115	1,2-Diethoxyethane	211-076-1	n/d
116	Tetralead trioxide sulphate	235-380-9	n/d
117	N-pentyl-isopentylphthalate	-	n/d
118	Dioxobis(stearato)trilead	235-702-8	n/d
119	Tetraethyllead	201-075-4	n/d
120	Pentalead tetraoxide sulphate	235-067-7	n/d
121	Pentacosafuorotridecanoic acid	276-745-2	n/d
122	Tricosafuorododecanoic acid	206-203-2	n/d
123	Heptacosafuorotetradecanoic acid	206-803-4	n/d
124	1-bromopropane (n-propyl bromide)	203-445-0	n/d
125	Methoxyacetic acid	210-894-6	n/d
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	n/d
127	Methyloxirane (Propylene oxide)	200-879-2	n/d
128	Trilead dioxide phosphonate	235-252-2	n/d
129	o-aminoazotoluene	202-591-2	n/d
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	n/d
131	4,4'-oxydianiline and its salts	202-977-0	n/d
132	Orange lead (lead tetroxide)	215-235-6	n/d
133	Biphenyl-4-ylamine	202-177-1	n/d
134	Diisopentylphthalate	210-088-4	n/d
135	Fatty acids, C16-18, lead salts	292-966-7	n/d
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	n/d
137	Sulfurous acid, lead salt, dibasic	263-467-1	n/d
138	Lead cyanamidate	244-073-9	n/d
139	Cadmium	231-152-8	n/d
140	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	n/d
141	Pentadecafluorooctanoic acid (PFOA)	206-397-9	n/d
142	Dipentyl phthalate (DPP)	205-017-9	n/d
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,	-	n/d

	which include any of the individual isomers and/or combinations thereof]		
144	Cadmium oxide	215-146-2	n/d
145	Cadmium sulphide	215-147-8	n/d
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	n/d
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	n/d
148	Dihexyl phthalate	201-559-5	n/d
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	n/d
150	Lead di(acetate)	206-104-4	n/d
151	Trixylyl phosphate	246-677-8	n/d
152	Cadmium chloride	233-296-7	n/d
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	n/d
154	Sodium peroxometaborate	231-556-4	n/d
155	Sodium perborate; perboric acid, sodium salt	239-172-9 234-390-0	n/d
156	Cadmium fluoride	232-222-0	n/d
157	Cadmium sulphate	233-331-6	n/d
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	n/d
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	n/d
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	n/d
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)		n/d
162	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	n/d
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]		n/d
164	1,3-propanesultone	214-317-9	n/d
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	n/d
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	n/d

167	Nitrobenzene	202-716-0	n/d
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	n/d
169	Benzo[def]chrysene(Benzo[a]pyrene)	200-028-5	n/d
170	p-(1,1-dimethylpropyl)phenol	201-280-9	n/d
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid	206-400-3	n/d
	Ammonium nonadecafluorodecanoate	221-470-5	n/d
	Decanoic acid, nonadecafluoro-, sodium salt		n/d
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		n/d
173	4,4'-isopropylidenediphenol	201-245-8	n/d
174	Perfluorohexane-1-sulphonic acid and its salts		n/d
175	Benz[a]anthracene	200-280-6	n/d
176	Cadmium carbonate	208-168-9	n/d
177	Cadmium hydroxide	244-168-5	n/d
178	Cadmium nitrate	233-710-6	n/d
179	Chrysene	205-923-4	n/d
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 ^{6,9} .0 ^{2,13} .0 ^{5,10}]octadeca-7,15-diene ("Dechlorane Plus"™)		n/d
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)		n/d
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	209-008-0	n/d
183	Benzo[ghi]perylene	205-883-8	n/d
184	Decamethylcyclopentasiloxane (D5)	208-764-9	n/d
185	Dicyclohexyl phthalate (DCHP)	201-545-9	n/d
186	Disodium octaborate	234-541-0	n/d
187	Dodecamethylcyclohexasiloxane (D6)	208-762-8	n/d
188	Ethylenediamine (EDA)	203-468-6	n/d
189	Lead	231-100-4	n/d

190	Octamethylcyclotetrasiloxane (D4)	209-136-7	n/d
191	Terphenyl, hydrogenated	262-967-7	n/d
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	n/d
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	n/d
194	Benzo[k]fluoranthene	205-916-6	n/d
195	Fluoranthene	205-912-4	n/d
196	Phenanthrene	201-581-5	n/d
197	Pyrene	204-927-3	n/d
198	3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	n/d
199	2-methoxyethyl acetate	2003-772-9	n/d
200	4-tert-butylphenol	202-679-0	n/d
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	n/d

n/d = non detected

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