

## 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 15/01/2018) 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 775K	33	ABS HGX4500	49	ASA XC190
2	ABS 720	18	ABS 775W	34	ABS HU600	50	ASA XC190BM
3	ABS 720R	19	ABS 780	35	ABS HU600HP	51	ASA XC190M
4	ABS 722W	20	ABS 780F	36	ABS HU600SK	52	ASA XC220
5	ABS 728	21	ABS 780M	37	ABS HU600SKG	53	ASA XC280G
6	ABS 728W	22	ABS 780W	38	ABS HU600Z	54	ASA XC500
7	ABS 740	23	ABS 795	39	ABS HU601	55	ASA XC500A
8	ABS 745	24	ABS ER872M	40	ABS HU621	56	ASA XC510
9	ABS 750	25	ABS ER875	41	ABS HU650	57	ASA XC510A
10	ABS 750SH	26	ABS 730	42	ABS HU650D	58	ASA XC520
11	ABS 750SW	27	ABS BM510	43	ABS HU650SK	59	HR 181
12	ABS 765	28	ABS BM530	44	ABS HU650ZW	60	HR 190
13	ABS 772	29	ABS H2938	45	AES HW600G	61	HR 191
14	ABS 775	30	ABS H2938DS	46	ASA XC180	62	HAB 8740B
15	ABS 750SW	31	ABS H2938L	47	ASA XC180G	63	HAC 8240B
16	ABS 775EG	32	ABS H2938Z	48	ASA XC230	64	HAC 8244

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

ID	SVHCs name	EC No	% in Product
1	$\alpha,\alpha$ -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 ( $\beta$ -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 hydroxyoctaoxidizincatedichromate	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	Henicosafuoroundecanoic 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 <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), 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, which include any of the individual isomers and/or combinations thereof]	-	n/d
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 <sup>6,9</sup> .0 <sup>2,13</sup> .0 <sup>5,10</sup> ]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> )		n/d
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)		n/d

n/d = non detected

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Date: 24.01.2018  
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