



Hanwha Total Petrochemical Co., Ltd.
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April 19, 2018

Dear Customer,

EU REACH Regulation Compliance Letter

BI997, BI871

This statement is in response to your request whether our Product(s) contain(s) Substance of Very High Concern (SVHC) in view of Regulation 1907/2006/EC (REACH).

We hereby certify that no substances on **181 SVHC candidates** that ECHA published are present in the above identified Products of Hanwha Total Petrochemical Co., Ltd. at levels above 0.1wt%.

We do not test the Products for these compounds, but to the best of our knowledge they are not contained more than 0.1wt%. We believe this information to be reasonably accurate and reliable as of this date provided, however, that it shall be your responsibility to make your own assessment and determination on the suitability of the Products for your particular application and use.

Should you have any question regarding the content of this letter, please do not hesitate to contact me.

Please find the contact point below:

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Sincerely,

Kihyun Wang
Polymer Customer T/S Team Leader

※ Candidate List of Substances of Very High Concern (SVHC) for authorization

No.	Substance Name	EC Number	CAS Number	Date of inclusion
1	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	2018-01-15
2	Cadmium carbonate	208-168-9	513-78-0	2018-01-15
3	Cadmium hydroxide	244-168-5	21041-95-2	2018-01-15
4	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	2018-01-15
5	Chrysene	205-923-4	218-01-9, 1719-03-5	2018-01-15
6	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	-	-	2018-01-15
7	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)	-	-	2018-01-15
8	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	-	2017-07-07
9	4,4'-isopropylidenediphenol Bisphenol A; BPA	201-245-8	80-05-7	2017-01-12
10	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	-	-	2017-01-12
11	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Decanoic acid, nonadecafluoro-, sodium salt EC no.: - CAS no.: 3830-45-3 Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7 Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2	-	-	2017-01-12
12	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	2017-01-12
13	Benzo[def]chrysene	200-028-5	50-32-8	2016-06-20
14	1,3-propanesultone	214-317-9	1120-71-4	2015-12-17
15	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	2015-12-17
16	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	2015-12-17
17	Nitrobenzene	202-716-0	98-95-3	2015-12-17
18	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	2015-12-17
19	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-	271-094-0	68515-51-5	2015-06-15

	benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	272-013-1	68648-93-1	
20	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] covering any of the individual stereoisomers of [1] and [2] or any combination thereof	-	-	2015-06-15
21	Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	2014-12-17 2008-10-28
22	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	2014-12-17
23	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	2014-12-17
24	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)	-	-	2014-12-17
25	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	2014-12-17
26	Cadmium fluoride	232-222-0	7790-79-6	2014-12-17
27	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	2014-12-17
28	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	2014-06-16
29	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	2014-06-16
30	Sodium peroxometaborate	231-556-4	7632-04-4	2014-06-16
31	Cadmium chloride	233-296-7	10108-64-2	2014-06-16
32	Cadmium sulphide	215-147-8	1306-23-6	2013-12-16
33	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	2013-12-16
34	Dihexyl phthalate	201-559-5	84-75-3	2013-12-16
35	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	2013-12-16
36	Trixylyl phosphate	246-677-8	25155-23-1	2013-12-16
37	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	2013-12-16
38	Lead di(acetate)	206-104-4	301-04-2	2013-12-16
39	Cadmium	231-152-8	7440-43-9	2013-06-20
40	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	2013-06-20
41	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	2013-06-20
42	Dipentyl phthalate (DPP)	205-017-9	131-18-0	2013-06-20

43	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]	-	-	2013-06-20
44	Cadmium oxide	215-146-2	1306-19-0	2013-06-20
45	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	2012-12-19
46	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	2012-12-19
47	Henicosfluoroundecanoic acid	218-165-4	2058-94-8	2012-12-19
48	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	2012-12-19
49	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	2012-12-19
50	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	2012-12-19
51	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	2012-12-19
52	Lead dinitrate	233-245-9	10099-74-8	2012-12-19
53	Silicic acid, lead salt	234-363-3	11120-22-2	2012-12-19
54	4-Aminoazobenzene	200-453-6	60-09-3	2012-12-19
55	Lead titanium zirconium oxide	235-727-4	12626-81-2	2012-12-19
56	Lead monoxide (lead oxide)	215-267-0	1317-36-8	2012-12-19
57	o-Toluidine	202-429-0	95-53-4	2012-12-19
58	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	2012-12-19
59	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]	272-271-5	68784-75-8	2012-12-19
60	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	2012-12-19
61	Furan	203-727-3	110-00-9	2012-12-19
62	N,N-dimethylformamide	200-679-5	68-12-2	2012-12-19
63	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	2012-12-19

64	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	-	-	2012-12-19
65	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	2012-12-19
66	Diethyl sulphate	200-589-6	64-67-5	2012-12-19
67	Dimethyl sulphate	201-058-1	77-78-1	2012-12-19
68	Lead oxide sulfate	234-853-7	12036-76-9	2012-12-19
69	Lead titanium trioxide	235-038-9	12060-00-3	2012-12-19
70	Acetic acid, lead salt, basic	257-175-3	51404-69-4	2012-12-19
71	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	2012-12-19
72	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	2012-12-19
73	N-methylacetamide	201-182-6	79-16-3	2012-12-19
74	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	2012-12-19
75	1,2-Diethoxyethane	211-076-1	629-14-1	2012-12-19
76	Tetralead trioxide sulphate	235-380-9	12202-17-4	2012-12-19
77	N-pentyl-isopentylphthalate		776297-69-9	2012-12-19
78	Dioxobis(stearato)trilead	235-702-8	12578-12-0	2012-12-19
79	Tetraethyllead	201-075-4	78-00-2	2012-12-19
80	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	2012-12-19
81	Pentacosaflluorotridecanoic acid	276-745-2	72629-94-8	2012-12-19
82	Tricosaflluorododecanoic acid	206-203-2	307-55-1	2012-12-19
83	Heptacosaflluorotetradecanoic acid	206-803-4	376-06-7	2012-12-19
84	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	2012-12-19
85	Methoxyacetic acid	210-894-6	625-45-6	2012-12-19
86	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	2012-12-19
87	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	2012-12-19
88	Trilead dioxide phosphonate	235-252-2	12141-20-7	2012-12-19
89	o-aminoazotoluene	202-591-2	97-56-3	2012-12-19
90	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	2012-12-19
91	4,4'-oxydianiline and its salts	202-977-0	101-80-4	2012-12-19
92	Orange lead (lead tetroxide)	215-235-6	1314-41-6	2012-12-19
93	Biphenyl-4-ylamine	202-177-1	92-67-1	2012-12-19
94	Diisopentylphthalate	210-088-4	605-50-5	2012-12-19
95	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	2012-12-19
96	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	2012-12-19
97	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	2012-12-19
98	Lead cyanamidate	244-073-9	20837-86-9	2012-12-19

99	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [<i>with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)</i>]	229-851-8	6786-83-0	2012-06-18
100	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	2012-06-18
101	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	2012-06-18
102	Diboron trioxide	215-125-8	1303-86-2	2012-06-18
103	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	2012-06-18
104	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [<i>with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)</i>]	209-218-2	561-41-1	2012-06-18
105	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	2012-06-18
106	Formamide	200-842-0	75-12-7	2012-06-18
107	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [<i>with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)</i>]	208-953-6	548-62-9	2012-06-18
108	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	2012-06-18
109	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [<i>with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)</i>]	219-943-6	2580-56-5	2012-06-18
110	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	2012-06-18
111	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	202-027-5	90-94-8	2012-06-18
112	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	2011-12-19
113	N,N-dimethylacetamide	204-826-4	127-19-5	2011-12-19
114	Phenolphthalein	201-004-7	77-09-8	2011-12-19
115	Lead diazide, Lead azide	236-542-1	13424-46-9	2011-12-19
116	Lead dipicrate	229-335-2	6477-64-1	2011-12-19
117	1,2-dichloroethane	203-458-1	107-06-2	2011-12-19
118	Calcium arsenate	231-904-5	7778-44-1	2011-12-19
119	Dichromium tris(chromate)	246-356-2	24613-89-6	2011-12-19
120	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	2011-12-19
121	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	2011-12-19
122	Arsenic acid	231-901-9	7778-39-4	2011-12-19
123	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	2011-12-19
124	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	2011-12-19
125	Lead styphnate	239-290-0	15245-44-0	2011-12-19

126	Trilead diarsenate	222-979-5	3687-31-8	2011-12-19
127	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-	-	2011-12-19
128	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	2011-12-19
129	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-	-	2011-12-19
130	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	2011-12-19
131	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	2011-12-19
132	Cobalt dichloride	231-589-4	7646-79-9	2011-06-20 2008-10-28
133	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	2011-06-20
134	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	2011-06-20
135	Strontium chromate	232-142-6	7789-06-2	2011-06-20
136	1-Methyl-2-pyrrolidone	212-828-1	872-50-4	2011-06-20
137	1,2,3-Trichloropropane	202-486-1	96-18-4	2011-06-20
138	2-Ethoxyethyl acetate	203-839-2	111-15-9	2011-06-20
139	Hydrazine	206-114-9	302-01-2, 7803-57-8	2011-06-20
140	Cobalt(II) diacetate	200-755-8	71-48-7	2010-12-15
141	Cobalt(II) sulphate	233-334-2	10124-43-3	2010-12-15
142	2-Ethoxyethanol	203-804-1	110-80-5	2010-12-15
143	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	2010-12-15

144	2-Methoxyethanol	203-713-7	109-86-4	2010-12-15
145	Chromium trioxide	215-607-8	1333-82-0	2010-12-15
146	Cobalt(II) carbonate	208-169-4	513-79-1	2010-12-15
147	Cobalt(II) dinitrate	233-402-1	10141-05-6	2010-12-15
148	Trichloroethylene	201-167-4	79-01-6	2010-06-18
149	Potassium dichromate	231-906-6	7778-50-9	2010-06-18
150	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	2010-06-18
151	Ammonium dichromate	232-143-1	2151163	2010-06-18
152	Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	2010-06-18
153	Sodium chromate	231-889-5	7775-11-3	2010-06-18
154	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	2010-06-18
155	Potassium chromate	232-140-5	7789-00-6	2010-06-18
156	Acrylamide	201-173-7	79-06-1	2010-03-30
157	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	2010-01-13
158	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	2010-01-13
159	Anthracene oil	292-602-7	90640-80-5	2010-01-13
160	2,4-Dinitrotoluene	204-450-0	121-14-2	2010-01-13
161	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	2010-01-13
162	Anthracene oil, anthracene-low	292-604-8	90640-82-7	2010-01-13
163	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	2010-01-13
164	Diisobutyl phthalate	201-553-2	84-69-5	2010-01-13
165	Lead chromate	231-846-0	7758-97-6	2010-01-13
166	Anthracene oil, anthracene paste	292-603-2	90640-81-6	2010-01-13
167	Pitch, coal tar, high temp.	266-028-2	65996-93-2	2010-01-13
168	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	2010-01-13
169	Lead hydrogen arsenate	232-064-2	7784-40-9	2008-10-28
170	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	2008-10-28
171	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	2008-10-28
172	Diarsenic trioxide	215-481-4	1327-53-3	2008-10-28
173	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	2008-10-28
174	Triethyl arsenate	427-700-2	15606-95-8	2008-10-28
175	Diarsenic pentaoxide	215-116-9	1303-28-2	2008-10-28
176	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	2008-10-28
177	Dibutyl phthalate (DBP)	201-557-4	84-74-2	2008-10-28
178	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	2008-10-28
179	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	2008-10-28
180	Anthracene	204-371-1	120-12-7	2008-10-28

181	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4, 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	2008-10-28
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