



JPMA List of Registered Organotin-free Anti-fouling Systems

Name of Manufacturer: PPG PMC JAPAN CO.,LTD.

8F, Shintetsu Bldg., 1-1-1 Daikaidori, Hyogo-ku, Kobe-shi, HYOGO

*Continuation process must be taken every 3 years for each system.

*Registered Systems Listed in alphabetical Order.

26 products registered as of 2017/08/25

Reg.No.	Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration Expiry	Manufactured in
00083	Crown Color Sentei Toryou YS Musuzu	Red, Red Brown	Organotin-free ablative type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2004/03/18 2019/04/22	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00084	Crown Color Sentei Toryou YS Musuzu	Blue	Organotin-free ablative type	1317-39-1 330-54-1	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2004/03/18 2019/04/22	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00081	Crown Super 243	Red, Black	Organotin-free self polishing type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2004/03/18 2020/08/24	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00082	Crown Super 243	Red Brown	Organotin-free self polishing type	1317-39-1 1897-45-6 330-54-1	Cuprous oxide 2,4,5,6-Tetrachloroisophthalonitrile 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2004/03/18 2019/04/22	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00086	Marine Super TF-100	Red Brown	Organotin-free ablative type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2004/03/18 2019/04/22	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00087	Rabal A/F	Red Brown	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/03/18 2019/04/22	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01256	Sigma Alphagen 230	Brown, Red Brown, Black, Blue, Grey, Green	Organotin-free self polishing type	1317-39-1 330-54-1	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2008/01/30 2020/02/24	Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/>
01106	Sigma Alphagen 240	Red Brown, Brown	Organotin-free self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2006/03/10 2020/02/24	Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/>
01114	Sigma Alphagen 650	Redbrown, Brown	Organotin-free self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2006/04/25 2020/02/24	Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/>
01025	Sigma Boatmax	Blue	Organotin-free self polishing type	1317-39-1 330-54-1	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2005/09/01 2020/08/24	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01026	Sigma Boatmax	Red, Black	Organotin-free self polishing type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2005/09/01 2020/08/24	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01513	Sigma EcoFleet 290S	Brown, Red Brown	Organotin-free self-polishing	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2011/12/07 2017/12/03	Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/>

[NOTE] Registered products are recognised to be compliant with IMO "International Convention on the Control of Harmful Anti-fouling Systems on Ships".

Other properties of registered products, such as Anti-fouling performance or safety properties, are not recognized.

*Product name case is typed as on the application form.

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							Expiry	in
00068	Sigma EcoFleet 530	Brown, Red Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2004/06/21	Japan <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2019/04/22	Others <input checked="" type="checkbox"/>
01257	Sigma KAISEN M	New Red, New Blue	Organotin-free self polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2008/04/03	Japan <input checked="" type="checkbox"/>
				971-66-4	Pyridine-triphenylborane		2020/02/24	Others <input type="checkbox"/>
00079	Sigma MANKAI	Red, Red Brown	Organotin-free ablative type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2004/03/18	Japan <input checked="" type="checkbox"/>
				1317-39-1	Cuprous oxide		2019/04/22	Others <input type="checkbox"/>
00080	Sigma MANKAI	Blue	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2019/04/22	Others <input type="checkbox"/>
01558	Sigma Nexeon 710	Brown, Red Brown	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2013/10/11	Japan <input type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2019/08/26	Others <input checked="" type="checkbox"/>
01559	Sigma Nexeon 750	Brown, Red Brown, Light Grey	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2013/08/22	Japan <input type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2019/08/26	Others <input checked="" type="checkbox"/>
01663	Sigma Sailadvance RX	Brown, Red Brown	Organotin-free self polishing type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2017/02/24	Japan <input type="checkbox"/>
				1317-39-1	Cuprous oxide		2020/02/24	Others <input checked="" type="checkbox"/>
01161	Sigma SylAdvance 800	Brown, Red Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2007/01/25	Japan <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2019/04/22	Others <input checked="" type="checkbox"/>
00076	Sigma TAIKAI	Red	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2004/06/21	Japan <input checked="" type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2019/04/22	Others <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
00077	Sigma TAIKAI	Red Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2004/06/21	Japan <input checked="" type="checkbox"/>
				1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile		2019/04/22	Others <input type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea			
00453	Sigmaglide 890	Clear, Redbrown, Blue, Black, Red	Biocide-free silicone type	-	-		2005/02/17	Japan <input type="checkbox"/>
							2020/02/24	Others <input checked="" type="checkbox"/>
01510	Sigmaglide 990	Dark Red, Dark Blue	Biocide-free silicone type	-	-		2011/12/07	Japan <input type="checkbox"/>
							2017/12/03	Others <input checked="" type="checkbox"/>
00071	Sigmaglide LSE Finish	Clear	Biocide-free silicone type	-	-		2004/06/21	Japan <input type="checkbox"/>
							2019/04/22	Others <input checked="" type="checkbox"/>

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							Expiry	
00085	Sigmaplane ECOL A/F HA (J)	Red Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile		2019/04/22	Others <input type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea			

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