



## JPMA List of Registered Organotin-free / Cybutryne-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 Sytems Listed in alphabetical Order.

30 products registered as of 2024/06/21

Reg.No.	Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration	Manufactured
							Expiry	in
00083	Crown Color Sentei Toryou YS Musuzu	Red, Red Brown	Ablative type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2004/03/18	Japan <input checked="" type="checkbox"/>
				1317-39-1	Cuprous oxide		2024/12/02	Others <input type="checkbox"/>
00084	Crown Color Sentei Toryou YS Musuzu	Blue	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		2024/12/02	Others <input type="checkbox"/>
00081	Crown Super 243	Red, Black	Self polishing 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		2026/06/15	Others <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
00082	Crown Super 243	Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile		2024/12/02	Others <input type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea			
00086	Marine Super TF-100	Red Brown	Ablative type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2004/03/18	Japan <input checked="" type="checkbox"/>
				1317-39-1	Cuprous oxide		2024/12/02	Others <input type="checkbox"/>
00087	Rabal A/F	Red Brown	Ablative type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
							2024/12/02	Others <input type="checkbox"/>
01114	Sigma Alphagen 650	Redbrown, Brown	Self polishing type	1317-39-1	Cuprous oxide		2006/04/25	Japan <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2025/12/12	Others <input checked="" type="checkbox"/>
01025	Sigma Boatmax	Blue	Self polishing type	1317-39-1	Cuprous oxide		2005/09/01	Japan <input checked="" type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2026/06/15	Others <input type="checkbox"/>
01026	Sigma Boatmax	Red, Black	Self polishing type	1317-39-1	Cuprous oxide		2005/09/01	Japan <input checked="" type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2026/06/15	Others <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01727	Sigma EcoFleet 270	Brown, Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2019/08/09	Japan <input type="checkbox"/>
							2025/06/16	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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01513	Sigma EcoFleet 290S	Brown, Red Brown	Self-polishing type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2011/12/07	Japan <input type="checkbox"/>
				1317-39-1	Cuprous oxide		2026/10/26	Others <input checked="" type="checkbox"/>
00068	Sigma EcoFleet 530	Brown, Red Brown	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		2025/10/20	Others <input checked="" type="checkbox"/>
01257	Sigma KAISEN M	New Red, New Blue	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		2025/12/12	Others <input type="checkbox"/>
00079	Sigma MANKAI	Red, Red Brown	Ablative type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2004/03/18	Japan <input checked="" type="checkbox"/>
				1317-39-1	Cuprous oxide		2024/12/02	Others <input type="checkbox"/>
00080	Sigma MANKAI	Blue	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		2024/12/02	Others <input type="checkbox"/>
01558	Sigma Nexeon 710	Brown, Red Brown	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		2025/06/16	Others <input checked="" type="checkbox"/>
01559	Sigma Nexeon 750	Brown, Red Brown, Light Grey	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		2025/06/16	Others <input checked="" type="checkbox"/>
01829	Sigma Sailadvance DX (II)	Brown, Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2022/12/13	Japan <input type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2025/12/12	Others <input checked="" type="checkbox"/>
01697	Sigma Sailadvance GX	Brown, Red Brown	Self polishing type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2018/02/16	Japan <input type="checkbox"/>
				1317-39-1	Cuprous oxide		2025/10/20	Others <input checked="" type="checkbox"/>
01826	Sigma Sailadvance NX	Brown, Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2022/10/21	Japan <input type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2025/10/20	Others <input checked="" type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01663	Sigma Sailadvance RX	Brown, Red Brown	Self polishing type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2017/02/24	Japan <input type="checkbox"/>
				1317-39-1	Cuprous oxide		2025/10/20	Others <input checked="" type="checkbox"/>

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00076	Sigma TAIKAI	Red	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		2024/12/02	Others <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
00077	Sigma TAIKAI	Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2004/06/21	Japan <input checked="" type="checkbox"/>
				1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile		2024/12/02	Others <input type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea			
01747	Sigmaglide 1290	Redbrown, Dark Blue, Black	Biocide-free silicone type				2020/07/29	Japan <input type="checkbox"/>
				2026/06/15	Others <input checked="" type="checkbox"/>			
01841	Sigmaglide 2390	Redbrown, blue, black, grey, white	Biocide-free silicone type				2023/10/27	Japan <input type="checkbox"/>
				2026/10/26	Others <input checked="" type="checkbox"/>			
00453	Sigmaglide 890	Clear, Redbrown, Blue, Black, Red	Biocide-free silicone type	-	-		2005/02/17	Japan <input type="checkbox"/>
							2025/10/20	Others <input checked="" type="checkbox"/>
01510	Sigmaglide 990	Dark Red, Dark Blue	Biocide-free silicone type	-	-		2011/12/07	Japan <input type="checkbox"/>
							2026/10/26	Others <input checked="" type="checkbox"/>
00071	Sigmaglide LSE Finish	Clear	Biocide-free silicone type	-	-		2004/06/21	Japan <input type="checkbox"/>
							2024/12/02	Others <input checked="" type="checkbox"/>
00085	Sigmaplane ECOL A/F HA (J)	Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile		2024/12/02	Others <input type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea			
01842	Sigmarine 530	Redbrown, Brown, Black, Blue, Spruce Green	Self polishing type	1317-39-1	Cuprous oxide		2023/10/27	Japan <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2026/10/26	Others <input checked="" type="checkbox"/>

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