



JPMA List of Registered Organotin-free / Cybutryne-free Anti-fouling Systems

(2021 amendment)

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.

22 products registered as of 2025/10/17

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	Ablative type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2004/03/18 2027/12/17	Japan ☒ Others ☐
00081	Crown Super 243	Red, Black	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 2026/06/15	Japan ☒ Others ☐
01868	PPG Nexeon 810	Brown Redbrown	Self polishing type	122454-29-9 13463-41-7 86347-14-0	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2025/02/21 2028/02/21	Japan ☐ Others ☒
01114	Sigma Alphagen 650	Redbrown, Brown	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2006/04/25 2028/10/16	Japan ☐ Others ☒
01025	Sigma Boatmax	Blue	Self polishing type	1317-39-1 330-54-1	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2005/09/01 2026/06/15	Japan ☒ Others ☐
01026	Sigma Boatmax	Red, Black	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 2026/06/15	Japan ☒ Others ☐
01727	Sigma EcoFleet 270	Brown, Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2019/08/09 2028/06/05	Japan ☐ Others ☒
01513	Sigma EcoFleet 290S	Brown, Red Brown	Self-polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2011/12/07 2026/10/26	Japan ☐ Others ☒
00068	Sigma EcoFleet 530	Brown, Red Brown	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2004/06/21 2028/10/16	Japan ☐ Others ☒
01257	Sigma KAISEN M	New Red, New Blue	Self polishing type	64359-81-5 971-66-4	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one Pyridine-triphenylborane		2008/04/03 2025/12/12	Japan ☒ Others ☐

[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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01558	Sigma Nexeon 710	Brown, Red Brown	Self polishing type	122454-29-9 13463-41-7	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide		2013/10/11 2028/06/05	Japan ☐ Others ☒
01559	Sigma Nexeon 750	Brown, Red Brown, Light Grey	Self polishing type	122454-29-9 13463-41-7	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide		2013/08/22 2028/06/05	Japan ☐ Others ☒
01829	Sigma Sailadvance DX (II)	Brown, Red Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2022/12/13 2028/10/16	Japan ☐ Others ☒
01697	Sigma Sailadvance GX	Brown, Red Brown	Self polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2018/02/16 2028/10/16	Japan ☐ Others ☒
01826	Sigma Sailadvance NX	Brown, Red Brown	Self polishing type	1317-39-1 14915-37-8 64359-81-5	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2022/10/21 2028/10/16	Japan ☐ Others ☒
01663	Sigma Sailadvance RX	Brown, Red Brown	Self polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2017/02/24 2028/10/16	Japan ☐ Others ☒
00076	Sigma TAIKAI	Red	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		2004/06/21 2027/12/17	Japan ☒ Others ☐
01747	Sigmaglide 1290	Redbrown, Dark Blue, Black	Biocide-free silicone type				2020/07/29 2026/06/15	Japan ☐ Others ☒
01841	Sigmaglide 2390	Redbrown, blue, black, grey, white	Biocide-free silicone type				2023/10/27 2026/10/26	Japan ☐ Others ☒
00453	Sigmaglide 890	Clear, Redbrown, Blue, Black, Red	Biocide-free silicone type	-	-		2005/02/17 2028/10/16	Japan ☐ Others ☒
01510	Sigmaglide 990	Dark Red, Dark Blue	Biocide-free silicone type	-	-		2011/12/07 2026/10/26	Japan ☐ Others ☒

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							Expiry	
01842	Sigmarine 530	Redbrown, Brown, Black, Blue, Spruce Green	Self polishing type	1317-39-1	Cuprous oxide		2023/10/27	Japan ☐
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2026/10/26	Others ☒

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