



## 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 Systems Listed in alphabetical Order.

21 products registered as of 2026/02/20

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	Zinc ethylenebis (dithiocarbamate)		2004/03/18	Japan <input checked="" type="checkbox"/>
				1317-39-1	Cuprous oxide		2027/12/17	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			
01868	PPG Nexeon 810	Brown Redbrown	Self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2025/02/21	Japan <input type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2028/02/21	Others <input checked="" type="checkbox"/>
				86347-14-0	4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole			
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		2028/10/16	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"/>
							2028/06/05	Others <input checked="" type="checkbox"/>
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		2028/10/16	Others <input checked="" 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		2028/06/05	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.

This list was updated as of 2026/02/20



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							Expiry	in
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 2028/06/05	Japan <input type="checkbox"/>	
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		Others <input checked="" type="checkbox"/>	
01829	Sigma Sailadvance DX (II)	Brown, Red Brown	Self polishing type	1317-39-1	Cuprous oxide	2022/12/13 2028/10/16	Japan <input type="checkbox"/>	
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		Others <input checked="" type="checkbox"/>	
01697	Sigma Sailadvance GX	Brown, Red Brown	Self polishing type	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2018/02/16 2028/10/16	Japan <input type="checkbox"/>	
				1317-39-1	Cuprous oxide		Others <input checked="" type="checkbox"/>	
01826	Sigma Sailadvance NX	Brown, Red Brown	Self polishing type	1317-39-1	Cuprous oxide	2022/10/21 2028/10/16	Japan <input type="checkbox"/>	
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		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 2028/10/16	Japan <input type="checkbox"/>	
				1317-39-1	Cuprous oxide		Others <input checked="" type="checkbox"/>	
00076	Sigma TAIKAI	Red	Self polishing type	1317-39-1	Cuprous oxide	2004/06/21 2027/12/17	Japan <input checked="" type="checkbox"/>	
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		Others <input type="checkbox"/>	
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01747	Sigmaglidle 1290	Redbrown, Dark Blue, Black	Biocide-free silicone type			2020/07/29 2026/06/15	Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/>	
01841	Sigmaglidle 2390	Redbrown, blue, black, grey, white	Biocide-free silicone type			2023/10/27 2026/10/26	Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/>	
00453	Sigmaglidle 890	Clear, Redbrown, Blue, Black, Red	Biocide-free silicone type	-	-	2005/02/17 2028/10/16	Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/>	
01510	Sigmaglidle 990	Dark Red, Dark Blue	Biocide-free silicone type	-	-	2011/12/07 2026/10/26	Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/>	
01842	Sigmarine 530	Redbrown, Brown, Black, Blue, Spruce Green	Self polishing type	1317-39-1	Cuprous oxide	2023/10/27 2026/10/26	Japan <input type="checkbox"/>	
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		Others <input checked="" type="checkbox"/>	

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