Self-Regulatory Management of Japan Paint Manufacturers Association to comply with IMO's International Convention on the Control of Harmful Anti-fouling Systems on Ships, 2001 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.

31 products registered as of 2025/02/21

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 🗹
			1317-39-1	Cuprous oxide	2027/12/17	Others
00084 Crown Color Sentei Toryou YS Musuzu	Blue	Ablative type	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2024/12/02	Others
00081 Crown Super 243	Red, Black	Self polishing type	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2026/06/15	Others
			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 🗹
			1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile	2024/12/02	Others
			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 🗹
			1317-39-1	Cuprous oxide	2024/12/02	Others
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 2028/02/21	Japan Others ☑
			13463-41-7	Zinc-2-pyridinethiol-1-oxide		
			86347-14-0	4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		
00087 Rabal A/F	Red Brown	Ablative type	1317-39-1	Cuprous oxide	2004/03/18 2024/12/02	Japan ⊻ Others □
01114 Sigma Alphagen 650	Redbrown, Brown	Self polishing type	1317-39-1	Cuprous oxide	2006/04/25	Japan
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2025/12/12	Others 🗹
01025 Sigma Boatmax	Blue	Self polishing type	1317-39-1	Cuprous oxide	2005/09/01 2026/06/15	Japan 🗹
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		Others
01026 Sigma Boatmax	Red, Black	Self polishing type	1317-39-1	Cuprous oxide	2005/09/01	Japan 🗹
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2026/06/15	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		

[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. This list was updated as of 2025/02/21

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

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Reg.No. Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC) Date	es of: -	Registration Expiry	Manufactu in	ired
01727 Sigma EcoFleet 270	Brown, Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2019/08/09 2025/06/16	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 2025/10/20	Japan Others	 Image: A start of the start of
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		
00079 Sigma MANKAI	Red, Red Brown	Ablative type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2004/03/18 2024/12/02	Japan Others	
00080 Sigma MANKAI	Blue	Ablative type	1317-39-1 330-54-1	Cuprous oxide 3–(3,4–Dichlorophenyl)–1, 1–dimethyl urea		2004/03/18 2024/12/02	Japan Others	
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 2025/06/16	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 2025/06/16	Japan Others	 Image: A start of the start of
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 2025/12/12	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 2025/10/20	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 2025/10/20	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 2025/10/20	Japan Others	✓

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Reg.No. Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration Expiry	Manufac in	
00076 Sigma TAIKAI	Red	Self polishing type	1317-39-1	Cuprous oxide		2004/06/21	Japan	✓
			330-54-1	3–(3,4–Dichlorophenyl)–1, 1–dimethyl urea		2027/12/17	Others	
			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	
			1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile		2024/12/02	Others	
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea				
01747 Sigmaglide 1290	Redbrown, Dark	Biocide-free silicone type				2020/07/29	Japan	
	Blue, Black					2026/06/15	Others	\checkmark
01841 Sigmaglide 2390	Redbrown, blue,	Biocide-free silicone type				2023/10/27	Japan	
	black, grey, white					2026/10/26	Others	\checkmark
00453 Sigmaglide 890	Clear, Redbrown,	Biocide-free silicone type	-	-		2005/02/17	Japan	
	Blue, Black, Red					2025/10/20	Others	\checkmark
01510 Sigmaglide 990	Dark Red, Dark Blue	e Biocide-free silicone type	-	-		2011/12/07	Japan	
						2026/10/26	Others	\checkmark
00071 Sigmaglide LSE Finish	Clear	Biocide-free silicone type	-	_		2004/06/21	Japan	
						2024/12/02	Others	\checkmark
00085 Sigmaplane ECOL A/F HA (J)	Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2004/03/18	Japan	✓
			1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile		2024/12/02	Others	
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea				
01842 Sigmarine 530	Redbrown, Brown,	Self polishing type	1317-39-1	Cuprous oxide		2023/10/27	Japan	
	Black, Blue, Spruce Green		64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2026/10/26	Others	\checkmark

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