



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

(2021 amendment)

Name of Manufacturer: NIPPON PAINT MARINE COATINGS CO., LTD.

2-1-2 Oyodo-kita, Kita-ku, Osaka-shi, OSAKA

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

\*Registered Systems Listed in alphabetical Order.

70 products registered as of 2026/06/19

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
01605	A-LF-Sea 100 HS	Brown R, Light Brown R, Blue R	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		2015/04/17 2027/02/15	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01820	A-LF-Sea 100 HS	Oriental Blue, Carmine Red	Self polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2022/04/18 2028/04/17	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01532	A-LF-Sea 150	Red Brown, Brown, Light Brown, Brown SK, Light Brown SK, Brown EK, Light Brown EK, Deep Red, Purple	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2012/10/12 2028/08/21	Japan <input checked="" type="checkbox"/> Others <input checked="" type="checkbox"/>
01533	A-LF-Sea 250	Red Brown, Brown, Light Brown, Brown SK, Light Brown SK, Brown EK, Light Brown EK	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2012/10/12 2028/08/21	Japan <input checked="" type="checkbox"/> Others <input checked="" type="checkbox"/>
01606	A-LF-Sea 300 HS	Blue R, Brown R, Light Brown R, Brown E, Light Brown E, Red IM, Maroon Z	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		2015/04/17 2028/08/21	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01731	A-LF-Sea 300 HS	Oriental Blue, Carmine Red	Self polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2019/12/17 2029/04/19	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01553	A-LF-Sea 400	Brown, Red Brown, Light Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2013/04/12 2027/10/18	Japan <input checked="" type="checkbox"/> Others <input checked="" type="checkbox"/>
01534	A-LF-Sea 600	Brown, Red Brown, Light Brown, Blue, Brown E, Light Brown E, Brown EK, Light Brown EK	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2012/10/12 2027/06/21	Japan <input checked="" 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.

This list was updated as of 2026/06/19



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							Expiry	in
01648	A-LF-Sea 600	Cocoa Brown, Dark Brown	Self polishing type	1317-39-1	Cuprous oxide		2016/10/14	Japan <input type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/02/15	Others <input checked="" type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01797	A-LF-Sea 600 Premium	Brown 1, Brown 2, Brown 3, Light Brown 1, Light Brown 2, Light Brown 3, Dark Brown 1, Dark Brown 2, Dark Brown 3	Self polishing type	1317-39-1	Cuprous oxide		2021/10/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2026/12/14	Others <input type="checkbox"/>
01852	A-LF-Sea 600 Premium L	Brown1, Dark Brown1	Self polishing type	1317-39-1	Cuprous oxide		2024/08/23	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/08/23	Others <input type="checkbox"/>
				86347-14-0	4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole			
01892	A-LF-SEA PRO	Brown S, Dark Brown S, Brown T, Dark Brown T	Self polishing type	1317-39-1	Cuprous oxide		2026/04/20	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2029/04/19	Others <input checked="" type="checkbox"/>
01653	AQUATERRAS 1000	Brown, Light Brown, Blue	Biocide-free self polishing type				2016/12/07	Japan <input checked="" type="checkbox"/>
							2029/04/19	Others <input type="checkbox"/>
01883	AQUATERRAS 1100	Brown, Light Brown	Biocide-free self polishing				2025/10/17	Japan <input checked="" type="checkbox"/>
							2028/10/16	Others <input type="checkbox"/>
01654	AQUATERRAS 2000	Brown, Light Brown, Blue, Black	Biocide-free self polishing type				2016/12/07	Japan <input checked="" type="checkbox"/>
							2027/06/21	Others <input type="checkbox"/>
01848	AQUATERRAS 3100	Brown, Light Brown	Biocide-free self polishing type	-	-		2024/02/16	Japan <input checked="" type="checkbox"/>
							2027/02/15	Others <input type="checkbox"/>
01655	AQUATERRAS 6000	Brown, Light Brown, Blue, Black	Biocide-free self polishing type				2016/12/07	Japan <input checked="" type="checkbox"/>
							2027/10/18	Others <input type="checkbox"/>
01656	AQUATERRAS 8000	Brown, Light Brown, Blue, Black	Biocide-free self polishing type				2016/12/07	Japan <input checked="" type="checkbox"/>
							2027/06/21	Others <input type="checkbox"/>

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\*Registered Sytems Listed in alphabetical Order.

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
01879	BIOFLEX 66	Red Brown, Light Brown	Self-polishing type	1317-39-1	Cuprous oxide		2025/10/17	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2028/10/16	Others <input checked="" type="checkbox"/>
01466	BIOFLEX 800	Brown C, Dark Brown C, Red Brown C, Red Brown D, Dark Brown D, Brown D	Controlled depletion polymer type	1317-39-1	Cuprous oxide		2010/08/06	Japan <input checked="" type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2028/08/21	Others <input checked="" type="checkbox"/>
01568	BIOFLEX A/F	Red Oxide	Conventional type	1317-39-1	Cuprous oxide		2013/08/22 2027/02/15	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00252	BIOFLEX TECHNO	Red Brown	Ablative type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2028/08/21	Others <input type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea			
01676	DRAFT A/F Super	White	Self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2017/08/25	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2028/08/21	Others <input type="checkbox"/>
01881	ECOLOFLEX 200	Brown LF, Dark Brown LF, Brown Z, Dark Brown Z, Black Z, Brown K, Dark Brown K	self polishing type	1317-39-1	Cuprous oxide		2025/10/17	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2029/04/19	Others <input checked="" type="checkbox"/>
01893	ECOLOFLEX 300	Brown S, Dark Brown S, Brown T, Dark Brown T	Self polishing type	1317-39-1	Cuprous oxide		2026/04/20	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2029/04/19	Others <input checked="" type="checkbox"/>
01895	ECOLOFLEX 600	Black F	Self polishing type	1317-39-1	Cuprous oxide		2026/04/20	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2029/04/19	Others <input checked="" type="checkbox"/>
01325	ECOLOFLEX SPC 100FWR	Red Brown, Dark Brown, Brown C, Light Brown C	Self polishing type	1317-39-1	Cuprous oxide		2008/11/27	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2028/08/21	Others <input checked="" type="checkbox"/>

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							Expiry	in
01249	ECOLOFLEX SPC 150HyB	Brown C, Light Brown C, Brown B, Light Brown B, Brown SK, Light Brown SK	Self polishing type	1317-39-1	Cuprous oxide		2008/01/30	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2028/06/05	Others <input checked="" type="checkbox"/>
01798	ECOLOFLEX SPC 600 HyB Premium	Brown 1, Brown 2, Brown 3, Light Brown 1, Light Brown 2, Light Brown 3, Dark Brown 1, Dark Brown 2, Dark Brown 3	Self polishing type	1317-39-1	Cuprous oxide		2021/10/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2026/12/14	Others <input type="checkbox"/>
01485	ECOLOFLEX SPC200	Light Brown K, Dark Brown K, Brown Z, Light Brown Z, Light Brown LF, Brown LF, Black Z, Dark Brown Z	Self polishing type	1317-39-1	Cuprous oxide		2011/03/24	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2028/04/17	Others <input checked="" type="checkbox"/>
01102	ECOLOFLEX SPC250 HyB	CherryV, PlumV, Cherry SK, Plum SK, Cherry EK, Plum EK, Blue M	Self polishing type	1317-39-1	Cuprous oxide		2006/03/10	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2028/08/21	Others <input checked="" type="checkbox"/>
00370	ECOLOFLEX SPC600	Dark Brown, Red Brown, Cherry V, Plum V, Blue, Blue V, Green	Self polishing type	1317-39-1	Cuprous oxide		2004/11/19	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2028/08/21	Others <input type="checkbox"/>
01476	ECOLOFLEX SPC600	Cherry S, Red Brown S, Light Brown S	Self polishing type	1317-39-1	Cuprous oxide		2010/10/01	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2028/06/05	Others <input type="checkbox"/>
00371	ECOLOFLEX SPC600 HyB	Cherry F, Plum F, Red, Black, Green, Brown V, Black F	Self polishing type	1317-39-1	Cuprous oxide		2004/11/19	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2028/06/05	Others <input checked="" type="checkbox"/>
01657	ECOLOFLEX SPC600 HyB	Cocoa Brown	Self polishing type	1317-39-1	Cuprous oxide		2017/02/24	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2028/08/21	Others <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			

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01758	UNAGI TORYO ICHIBAN AZAYAKA RAINBOW	G-1, B-1, N-1, Y-1, Y-2, P-1, P-2, P-3, V-1, W-1	Self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2021/03/04 2028/04/17	Japan <input checked="" type="checkbox"/>	Others <input type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide			
01555	UNAGI TORYO ICHIBAN AZAYAKA SUPER	Black, Red, Blue, White, Beetle Black, Venus White, Beetle Gray, K-line Gray, Light Green	Self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2013/06/18 2027/12/17	Japan <input checked="" type="checkbox"/>	Others <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		*Under continuation application.	
01570	UNAGI TORYO ICHIBAN LF-Sea	Blue, Red	Self polishing type	1317-39-1	Cuprous oxide	2013/10/11 2028/04/17	Japan <input checked="" type="checkbox"/>	Others <input type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-			

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