



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 Sytems Listed in alphabetical Order.

64 products registered as of 2025/08/22

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 Others	☒ ☐
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 Others	☒ ☐
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 Others	☒ ☒
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 Others	☒ ☒
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 Others	☒ ☐
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 2026/06/15	Japan Others	☒ ☐
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 Others	☒ ☒
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 Others	☒ ☒

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01648	A-LF-Sea 600	Cocoa Brown, Dark 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		2016/10/14 2027/02/15	Japan ☐ Others ☒
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 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2021/10/15 2026/12/14	Japan ☒ Others ☐
01852	A-LF-Sea 600 Premium L	Brown1, Dark Brown1	Self polishing type	1317-39-1 14915-37-8 86347-14-0	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2024/08/23 2027/08/23	Japan ☒ Others ☐
01653	AQUATERRAS 1000	Brown, Light Brown, Blue	Biocide-free self polishing type				2016/12/07 2026/06/15	Japan ☒ Others ☐
01837	AQUATERRAS 1000 PLUS	Brown, Light Brown	Biocide-free self polishing type	-	-		2023/06/16 2026/06/15	Japan ☒ Others ☐
01654	AQUATERRAS 2000	Brown, Light Brown, Blue, Black	Biocide-free self polishing type				2016/12/07 2027/06/21	Japan ☒ Others ☐
01848	AQUATERRAS 3100	Brown, Light Brown	Biocide-free self polishing type	-	-		2024/02/16 2027/02/15	Japan ☒ Others ☐
01655	AQUATERRAS 6000	Brown, Light Brown, Blue, Black	Biocide-free self polishing type				2016/12/07 2027/10/18	Japan ☒ Others ☐
01656	AQUATERRAS 8000	Brown, Light Brown, Blue, Black	Biocide-free self polishing type				2016/12/07 2027/06/21	Japan ☒ Others ☐
01466	BIOFLEX 800	Brown C, Dark Brown C, Red Brown C, Red Brown D, Dark Brown D, Brown D	Controlled depletion polymer type	1317-39-1 330-54-1	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2010/08/06 2028/08/21	Japan ☒ Others ☒

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01568	BIOFLEX A/F	Red Oxide	Conventional type	1317-39-1	Cuprous oxide		2013/08/22 2027/02/15	Japan ☒ Others ☐
00252	BIOFLEX TECHNO	Red Brown	Ablative type	1317-39-1 13463-41-7 330-54-1	Cuprous oxide Zinc-2-pyridinethiol-1-oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2004/03/18 2028/08/21	Japan ☒ Others ☐
01676	DRAFT A/F Super	White	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		2017/08/25 2028/08/21	Japan ☒ Others ☐
01325	ECOLOFLEX SPC 100FWR	Red Brown, Dark Brown, Brown C, Light Brown C	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2008/11/27 2028/08/21	Japan ☒ Others ☒
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 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2008/01/30 2028/06/05	Japan ☒ Others ☒
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 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2021/10/15 2026/12/14	Japan ☒ Others ☐
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 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2011/03/24 2028/04/17	Japan ☒ Others ☒
01102	ECOLOFLEX SPC250 HyB	CherryV, PlumV, Cherry SK, Plum SK, Cherry EK, Plum EK, Blue M	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2006/03/10 2028/08/21	Japan ☒ Others ☒

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00370	ECOLOFLEX SPC600	Dark Brown, Red Brown, Cherry V, Plum V, Blue, Blue V, Green	Self polishing type	1317-39-1 13463-41-7	Cuprous oxide Zinc-2-pyridinethiol-1-oxide		2004/11/19 2028/08/21	Japan ☒ Others ☐
01476	ECOLOFLEX SPC600	Cherry S, Red Brown S, Light Brown S	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2010/10/01 2028/06/05	Japan ☒ Others ☐
00371	ECOLOFLEX SPC600 HyB	Cherry F, Plum F, Red, Black, Green, Brown V, Black F	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/11/19 2028/06/05	Japan ☒ Others ☒
01657	ECOLOFLEX SPC600 HyB	Cocoa 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		2017/02/24 2028/08/21	Japan ☒ Others ☐
01853	ECOLOFLEX SPC600 HyB Premium L	Brown1, Dark Brown1	Self polishing type	1317-39-1 14915-37-8 86347-14-0	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2024/08/23 2027/08/23	Japan ☒ Others ☐
00243	ECOLOFLEX SPC700	Cherry V, Plum V	Self polishing type	1317-39-1 13463-41-7	Cuprous oxide Zinc-2-pyridinethiol-1-oxide		2004/03/18 2028/08/21	Japan ☒ Others ☐
00363	ECOLOSILK	Gray, White, Red, Black, Green, Signal Red, Blue	Biocide-free silicone type	-	-		2004/10/26 2026/02/16	Japan ☒ Others ☐
01681	ECOLOSILK AXEL	MARIGOLD	Biocide-free silicone type				2017/12/04 2027/06/21	Japan ☒ Others ☒
01845	FASTAR 600 H	Brown, Light Brown, Dark Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2023/12/15 2027/02/15	Japan ☒ Others ☒
01846	FASTAR 600 M	Brown, Light Brown, Dark Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2023/12/15 2027/02/15	Japan ☒ Others ☒
01737	FASTAR I	Red Brown, Dark Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/21 2027/02/15	Japan ☒ Others ☒

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01738	FASTAR II	Red Brown, Dark Brown	Self polishing type	1317-39-1	Cuprous oxide		2020/02/21	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/06/21	Others ☒
01739	FASTAR XI	Red Brown, Dark Brown	Self polishing type	1317-39-1	Cuprous oxide		2020/02/21	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/02/15	Others ☒
01740	FASTAR XII	Red Brown, Dark Brown, Red Brown N, Dark Brown N	Self polishing type	1317-39-1	Cuprous oxide		2020/02/21	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/06/21	Others ☒
01718	FUNEBIJIN MAX	Red, Blue	Self polishing type	1317-39-1	Cuprous oxide		2019/04/19	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/12/17	Others ☐
01609	HISOL 100	Brown F, Blue F, Light Brown R	Self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2015/04/17	Japan ☒
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2027/02/15	Others ☐
01610	HISOL 300	Brown F, Light Brown R, Brown R	Self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2015/04/17	Japan ☒
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2027/02/15	Others ☐
01800	HISOL FISHING BOAT	Neo Black, Neo Red, Neo Blue	Self polishing type	1111-67-7	Cuprous Thiocyanate		2022/04/18	Japan ☒
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2028/02/21	Others ☐
01326	JYUNPU	Red, Black, Blue	Self polishing type	1317-39-1	Cuprous oxide		2008/11/27	Japan ☒
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2026/06/15	Others ☐
01608	LF-Sea 100 HS	Brown R, Light Brown R, Blue R, Brown E, Light Brown E	Self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2015/04/17	Japan ☒
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2027/02/15	Others ☐
01250	LF-Sea 150 HyB	Brown, light Brown, Brown K, Light Brown K, Brown SK, Light Brown SK, B Brown SK, B light Brown SK, B Brown, B Light Brown	Self polishing type	1317-39-1	Cuprous oxide		2008/01/30	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/08/23	Others ☒

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01228	LF-Sea 250 HyB	Cherry, Plum, Cherry SK, Plum SK	Self polishing type	1317-39-1	Cuprous oxide		2007/07/26	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/02/15	Others ☒
01607	LF-Sea 300 HS	Brown R, Light Brown R, Blue R	Self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2015/04/17	Japan ☒
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2027/02/15	Others ☐
01244	LF-Sea 400 HyB	Cherry, Plum, Brown, Light Brown	Self polishing type	1317-39-1	Cuprous oxide		2007/12/10	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/10/18	Others ☒
01226	LF-Sea 600 HyB	Cherry, Plum, Cherry D, Plum D, Blue D, Red, Blue, Cherry G, Plum G, Cherry J, Plum J	Self polishing type	1317-39-1	Cuprous oxide		2007/07/26	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/08/23	Others ☒
01803	MARIART X NEO	Black, Gray, White	Self polishing type	1111-67-7	Cuprous Thiocyanate		2021/12/03	Japan ☒
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2027/10/18	Others ☐
01802	MASSIVE NEO	Red, Black, White, Gray	Self polishing type	1111-67-7	Cuprous Thiocyanate		2021/12/03	Japan ☒
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2028/04/17	Others ☐
00246	NIPPE STRONG 7000	Cherry	Self polishing type	1317-39-1	Cuprous oxide		2004/03/18	Japan ☒
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2027/06/21	Others ☐
01854	OUTFITTING A/F Premium	Brown	Self polishing type	1317-39-1	Cuprous oxide		2024/08/23	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/08/23	Others ☐
				86347-14-0	4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole			
01677	SEACHEST GUARD	Red	Self polishing type	1317-39-1	Cuprous oxide		2017/08/25	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2026/06/15	Others ☐
01642	SILYL A/F PAINT FOR SHIP'S BOOTTOP	Black	Self polishing type	1317-39-1	Cuprous oxide		2016/06/17	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/12/17	Others ☐
01641	SILYL A/F PAINT FOR SHIP'S BOTTOM	Red	Self polishing type	1317-39-1	Cuprous oxide		2016/06/17	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/12/17	Others ☐

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01014	UNAGI TORYO ICHIBAN	Blue, Red, Retro Red	Self polishing type	1317-39-1 13463-41-7	Cuprous oxide Zinc-2-pyridinethiol-1-oxide		2005/06/30 2027/10/18	Japan ☒ Others ☐
01799	UNAGI TORYO ICHIBAN	Neo Black	Self polishing type	1111-67-7 64359-81-5	Cuprous Thiocyanate 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2021/12/03 2027/10/18	Japan ☒ Others ☐
01801	UNAGI TORYO ICHIBAN AZAYAKA NEO	Blue, Red, White	Self polishing type	1111-67-7 64359-81-5	Cuprous Thiocyanate 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2021/12/03 2027/10/18	Japan ☒ Others ☐
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 13463-41-7	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide		2021/03/04 2028/04/17	Japan ☒ Others ☐
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 13463-41-7	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide		2013/06/18 2027/12/17	Japan ☒ Others ☒ *Under continuation application.
01570	UNAGI TORYO ICHIBAN LF-Sea	Blue, Red	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2013/10/11 2028/04/17	Japan ☒ Others ☐

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