



JPMA List of Registered Organotin-free Anti-fouling Systems

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

1-26, Komagabayashi-minami-cho, Nagata-ku, Kobe-shi, HYOGO

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

*Registered Systems Listed in alphabetical Order.

81 products registered as of 2017/08/25

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	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2015/04/17	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2018/04/16	Others <input type="checkbox"/>
01535	A-LF-Sea 100 HS	Brown A, Light Brown A, Blue A	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2012/10/12	Japan <input checked="" type="checkbox"/>
				731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethylamino)sulfonyl)-1-fluoro-N-(4-methylphenyl)		2018/08/20	Others <input type="checkbox"/>
				971-66-4	Pyridine-triphenylborane			
01532	A-LF-Sea 150	Red Brown, Brown, Light Brown, Brown SK, Light Brown SK, Brown EK, Light Brown EK	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2012/10/12	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/06/15	Others <input checked="" type="checkbox"/>
01651	A-LF-Sea 200	Brown, Light Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2016/12/07	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/12/07	Others <input type="checkbox"/>
01533	A-LF-Sea 250	Red Brown, Brown, Light Brown, Brown SK, Light Brown SK, Brown EK, Light Brown EK	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2012/10/12	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/06/15	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	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2015/04/17	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2019/04/22	Others <input type="checkbox"/>
01553	A-LF-Sea 400	Brown, Red Brown, Light Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2013/04/12	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/04/22	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	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2012/10/12	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/12/17	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.

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							Expiry	in
01648	A-LF-Sea 600	Cocoa Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2016/10/14	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/10/14	Others <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01653	AQUATERRAS 1000	Brown, Light Brown, Blue	Biocide-free self polishing type				2016/12/07 2020/06/15	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01654	AQUATERRAS 2000	Brown, Light Brown, Blue	Biocide-free self polishing type				2016/12/07 2020/06/15	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01655	AQUATERRAS 6000	Brown, Light Brown, Blue	Biocide-free self polishing type				2016/12/07 2020/06/15	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01656	AQUATERRAS 8000	Brown, Light Brown, Blue	Biocide-free self polishing type				2016/12/07 2020/06/15	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01568	BIOFEX A/F	Red Oxide	Organotin-free conventional type	1317-39-1	Cuprous oxide		2013/08/22 2019/06/17	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
01104	BIOFLEX 800	Brown, Plum, Red Brown	Organotin-free controlled depletion polymer type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2006/03/10	Japan <input checked="" type="checkbox"/>
				1317-39-1	Cuprous oxide		2020/06/15	Others <input checked="" type="checkbox"/>
01466	BIOFLEX 800	Brown C, Dark Brown C, Red Brown C, Red Brown D, Dark Brown D, Brown D	Organotin-free 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		2020/02/24	Others <input checked="" type="checkbox"/>
00252	BIOFLEX TECHNO	Red Brown	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2018/10/15	Others <input type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea			
00253	BIOFLEX TECHNO	Brown	Organotin-free ablative 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		2018/10/15	Others <input type="checkbox"/>
01676	DRAFT A/F Super	White	Organotin-free self polishing	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		2020/08/24	Others <input type="checkbox"/>
01556	ECOLOFLEX FRP	Red	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2013/06/18	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2019/04/22	Others <input type="checkbox"/>
				28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine			

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01557	ECOLOFLEX FRP	Blue	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2013/06/18	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2019/04/22	Others <input type="checkbox"/>
00245	ECOLOFLEX SPC	Beetle Black	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				971-66-4	Pyridine-triphenylborane		2019/02/17	Others <input type="checkbox"/>
01518	ECOLOFLEX SPC	Venus White 2	Organotin-free self polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2012/01/27	Japan <input checked="" type="checkbox"/>
				971-66-4	Pyridine-triphenylborane		2017/12/03	Others <input type="checkbox"/>
00364	ECOLOFLEX SPC 100	Dark Brown, Dark Brown M, Red Brown, Medium Brown, Dark Brown C, Red Brown C	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2005/11/21	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2020/02/24	Others <input checked="" type="checkbox"/>
01325	ECOLOFLEX SPC 100FWR	Red Brown, Dark Brown, Brown C, Light Brown C	Organotin-free 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)-		2020/02/24	Others <input checked="" type="checkbox"/>
01249	ECOLOFLEX SPC 150HyB	Cherry V, Plum V, Brown, Light Brown, Brown C, Light Brown C, Brown B, Light Brown B, Brown SK, Light Brown SK, Brown E, Light Brown E, Brown EK, Light Brown EK	Organotin-free 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)-		2020/06/15	Others <input checked="" type="checkbox"/>
01248	ECOLOFLEX SPC 150HyB LF-Sea	Cherry, Plum, Brown, Light Brown	Organotin-free 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)-		2019/08/26	Others <input type="checkbox"/>
01247	ECOLOFLEX SPC 250HyB LF-Sea	Cherry, Plum	Organotin-free 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)-		2019/08/26	Others <input type="checkbox"/>
01080	ECOLOFLEX SPC100	Green	Organotin-free self polishing type	1111-67-7	Cuprous Thiocyanate		2005/11/21	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2017/06/12	Others <input type="checkbox"/>
01500	ECOLOFLEX SPC100 HS	Brown C, Red Brown C, Red Brown, Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2011/08/05	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/06/18	Others <input checked="" type="checkbox"/>

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*Registered Systems Listed in alphabetical Order.

1-26, Komagabayashi-minami-cho, Nagata-ku, Kobe-shi, HYOGO

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							Expiry	in
00365	ECOLOFLEX SPC200	Dark Brown, Dark Brown M, Red Brown, Medium Brown, Green, Dark Brown C, Red Brown C, 'Blue, Ocean Green	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2004/11/19	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2017/08/21	Others <input checked="" type="checkbox"/>
01485	ECOLOFLEX SPC200	Chocolat K, Light Brown K, Dark Brown K, Brown Z, Light Brown Z	Organotin-free 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)-		2020/08/24	Others <input checked="" type="checkbox"/>
01501	ECOLOFLEX SPC200 HS	Brown C, Red Brown C, Red Brown, Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2011/08/05	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/06/18	Others <input checked="" type="checkbox"/>
01023	ECOLOFLEX SPC2000	Brown, Light Brown, Brown B, Light Brown B	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2005/06/30	Japan <input checked="" type="checkbox"/>
				971-66-4	Pyridine-triphenylborane		2018/06/18	Others <input type="checkbox"/>
01102	ECOLOFLEX SPC250 HyB	CherryV, PlumV, Cherry SK, Plum SK, Cherry EK, Plum EK	Organotin-free 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)-		2020/06/15	Others <input checked="" type="checkbox"/>
00368	ECOLOFLEX SPC400	Cherry V, Plum V	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2004/11/19	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2019/06/17	Others <input type="checkbox"/>
01328	ECOLOFLEX SPC400 HyB	Cherry V, Plum V, Brown, Light Brown, Black	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2009/01/23	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/04/22	Others <input checked="" type="checkbox"/>
00370	ECOLOFLEX SPC600	Dark Brown, Red Brown, Cherry V, Plum V, Blue, Blue V, Green	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2004/11/19	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2019/04/22	Others <input type="checkbox"/>
01476	ECOLOFLEX SPC600	Pink, Cherry S	Organotin-free 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)-		2020/04/13	Others <input type="checkbox"/>

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00371	ECOLOFLEX SPC600 HyB	Cherry V, Plum V, Cherry F, Plum F, Extra Cherry, Extra Plum, Red Brown, Red, Black, Green, Brown, Light Brown, Brown V, Cherry E, Plum E, Cherry EK, Plum EK	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2004/11/19 2018/12/17	Japan <input checked="" type="checkbox"/>	
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		Others <input checked="" type="checkbox"/>	
01657	ECOLOFLEX SPC600 HyB	Cocoa Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2017/02/24 2020/02/24	Japan <input checked="" type="checkbox"/>	
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		Others <input type="checkbox"/>	
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01441	ECOLOFLEX SPC600 HyB LF- Sea	Cherry, Plum, Cherry D, Plum D	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2010/01/22 2018/10/15	Japan <input checked="" type="checkbox"/>	
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		Others <input type="checkbox"/>	
00243	ECOLOFLEX SPC700	Cherry V, Plum V	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2004/03/18 2020/04/13	Japan <input checked="" type="checkbox"/>	
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		Others <input type="checkbox"/>	
00363	ECOLOSIK	Gray, White, Red, Black, Green, Signal Red, Blue	Biocide-free silicone type	-	-	2004/10/26 2020/04/13	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>	
01576	ECOLOSIK 100	Red Brown, Brown, Light Brown, Red, Blue, Green, White, Black, Yellow, Gray	Biocide-free silicone type	-	-	2014/02/14 2020/02/24	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>	
01191	ECOLOSIK 600	Red	Biocide-free silicone type	-	-	2007/03/13 2018/10/15	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>	
01575	ECOLOSIK 700	Red Brown, Brown, Light Brown, Red, Blue, Green, White, Black, Yellow, Gray	Biocide-free silicone type	-	-	2014/02/14 2020/02/24	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>	
01622	ECOLOSIK 800	Brown, Red Brown, Light Brown, Red, Blue, Green, White, Black, Yellow, Gray	Biocide-free silione type			2015/08/21 2018/08/20	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>	

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01664	Fisherman's HISOL	Red	Organotin-free ablative type	1111-67-7	Cuprous Thiocyanate		2017/04/14	Japan <input checked="" type="checkbox"/>
				28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine		2020/04/13	Others <input type="checkbox"/>
00294	HISOL 100	Brown, Light Brown, Blue, Brown S	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2004/05/21	Japan <input checked="" type="checkbox"/>
				971-66-4	Pyridine-triphenylborane		2018/02/19	Others <input type="checkbox"/>
01609	HISOL 100	Brown F, Blue F, Light Brown R	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2015/04/17	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2018/04/16	Others <input type="checkbox"/>
00296	HISOL 300	Brown, Light Brown, Brown S, Red	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2004/05/21	Japan <input checked="" type="checkbox"/>
				971-66-4	Pyridine-triphenylborane		2018/06/18	Others <input type="checkbox"/>
01610	HISOL 300	Brown F, Light Brown R	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2015/04/17	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2018/04/16	Others <input type="checkbox"/>
01326	JYUNPU	Red, Black, Blue	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2008/11/27	Japan <input checked="" type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2020/08/24	Others <input type="checkbox"/>
01227	LF-Sea 100 HS	Brown, Light Brown, Blue, Brown S, Blue S	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2007/07/26	Japan <input checked="" type="checkbox"/>
				971-66-4	Pyridine-triphenylborane		2018/02/19	Others <input type="checkbox"/>
01593	LF-Sea 100 HS	Brown E, Light Brown E	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2014/12/04	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2017/12/03	Others <input type="checkbox"/>
01608	LF-Sea 100 HS	Brown R, Light Brown R, Blue R	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2015/04/17	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2018/04/16	Others <input type="checkbox"/>
01640	LF-Sea 100 HS	Brown EX, Light Brown EX	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2016/06/17	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2019/06/17	Others <input type="checkbox"/>
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
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	Organotin-free 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)-		2019/12/07	Others <input checked="" type="checkbox"/>

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01228	LF-Sea 250 HyB	Cherry, Plum, Blue, Brown K, Red Brown K, Light Brown K, Blue K, Cherry SK, Plum SK	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2007/07/26 2018/04/16	Japan <input checked="" type="checkbox"/>	
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		Others <input checked="" type="checkbox"/>	
01262	LF-Sea 300 HS	Blue A, Brown A, Light Brown A	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2008/03/18 2018/04/16	Japan <input checked="" type="checkbox"/>	
				731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethylamino) sulfonyl)-1-fluoro-N-(4-methylphenyl)		Others <input type="checkbox"/>	
				971-66-4	Pyridine-triphenylborane			
01607	LF-Sea 300 HS	Brown R, Light Brown R, Blue R	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2015/04/17 2018/04/16	Japan <input checked="" type="checkbox"/>	
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		Others <input type="checkbox"/>	
01244	LF-Sea 400 HyB	Cherry, Plum, Brown, Light Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2007/12/10 2019/04/22	Japan <input checked="" type="checkbox"/>	
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		Others <input checked="" type="checkbox"/>	
01652	LF-Sea 600	Cherry S, Plum S	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2016/12/07 2019/12/07	Japan <input checked="" type="checkbox"/>	
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		Others <input type="checkbox"/>	
01226	LF-Sea 600 HyB	Cherry, Plum, Cherry D, Plum D, Blue D, Red, Blue, Cherry G, Plum G, Cherry J, Plum J	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2007/07/26 2018/08/20	Japan <input checked="" type="checkbox"/>	
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		Others <input checked="" type="checkbox"/>	
01612	MARIART X	Black, White, Gray	Organotin-free ablative type	1111-67-7	Cuprous Thiocyanate	2015/06/19 2018/06/18	Japan <input checked="" type="checkbox"/>	
				28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine		Others <input type="checkbox"/>	
01382	MASSIVE	Black, White, Gray, Blue, Red	Organotin-free ablative type	1111-67-7	Cuprous Thiocyanate	2009/04/03 2018/08/20	Japan <input checked="" type="checkbox"/>	
				28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine		Others <input type="checkbox"/>	
00246	NIPPE STRONG 7000	Cherry	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2004/03/18 2018/10/15	Japan <input checked="" type="checkbox"/>	
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		Others <input type="checkbox"/>	
01078	PROPELLER ICHIBAN	Blue	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2005/11/21 2020/04/13	Japan <input checked="" type="checkbox"/>	
				971-66-4	Pyridine-triphenylborane		Others <input type="checkbox"/>	

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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 on 2017/08/25

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JPMA List of Registered Organotin-free Anti-fouling Systems

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

1-26, Komagabayashi-minami-cho, Nagata-ku, Kobe-shi, HYOGO

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

*Registered Systems 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	Manufactured in
							Expiry	
01677	SEACHEST GUARD	Red	Organotin-free self polishing	1317-39-1	Cuprous oxide		2017/08/25	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/08/24	Others <input type="checkbox"/>
01077	SEACHEST SUPERGUARD A/F	Red, Gray	Organotin-free ablative type	1317-39-1	Cuprous oxide		2005/11/21	Japan <input checked="" type="checkbox"/>
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2020/04/13	Others <input type="checkbox"/>
01642	SILYL A/F PAINT FOR SHIP'S BOOTTOP	Black	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2016/06/17	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/06/17	Others <input type="checkbox"/>
01641	SILYL A/F PAINT FOR SHIP'S BOTTOM	Red	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2016/06/17	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/06/17	Others <input type="checkbox"/>
01014	UNAGI TORYO ICHIBAN	Blue, Green, Red, Brown, Retro Red, Blue Kai	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2005/06/30	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2019/02/17	Others <input type="checkbox"/>
01443	UNAGI TORYO ICHIBAN	Azayaka White 1	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2010/01/22	Japan <input checked="" type="checkbox"/>
				971-66-4	Pyridine-triphenylborane		2019/02/17	Others <input type="checkbox"/>
01624	UNAGI TORYO ICHIBAN	Black	Organotin-free ablative type	1111-67-7	Cuprous Thiocyanate		2015/12/18	Japan <input checked="" type="checkbox"/>
				28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine		2018/12/17	Others <input type="checkbox"/>
01567	UNAGI TORYO ICHIBAN AZAYAKA	K-LINE GRAY	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2013/08/22	Japan <input checked="" type="checkbox"/>
				731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethylamino) sulfonyl)-1-fluoro-N-(4-methylphenyl)		2019/06/17	Others <input type="checkbox"/>
				971-66-4	Pyridine-triphenylborane			
01623	UNAGI TORYO ICHIBAN AZAYAKA	Red, Blue, White	Organotin-free ablative type	1111-67-7	Cuprous Thiocyanate		2015/10/16	Japan <input checked="" type="checkbox"/>
				28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine		2019/08/26	Others <input type="checkbox"/>
01555	UNAGI TORYO ICHIBAN AZAYAKA SUPER	Black, Red, Blue, White, Beetle Black, Venus White	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile		2013/06/18	Japan <input checked="" type="checkbox"/>
				13463-41-7	Zinc-2-pyridinethiol-1-oxide		2018/10/15	Others <input checked="" type="checkbox"/>
01448	UNAGI TORYO ICHIBAN AZAYAKA TOKUJYOU	Red A1, Blue A1	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2010/01/22	Japan <input checked="" type="checkbox"/>
				731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethylamino) sulfonyl)-1-fluoro-N-(4-methylphenyl)		2019/02/17	Others <input type="checkbox"/>
				971-66-4	Pyridine-triphenylborane			

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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 on 2017/08/25



JPMA List of Registered Organotin-free Anti-fouling Systems

Name of Manufacturer: NIPPON PAINT MARINE COATINGS CO.,LTD.
1-26, Komagabayashi-minami-cho, Nagata-ku, Kobe-shi, HYOGO

*Continuation process must be taken every 3 years for each system.
*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	Manufactured in
							Expiry	
01570	UNAGI TORYO ICHIBAN LF-Sea	Blue, Red	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2013/10/11 2019/10/14		Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-			Others <input type="checkbox"/>

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