



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

(2021 amendment)

Name of Manufacturer: AKZO NOBEL COATINGS K.K. INTERNATIONAL PAINT DIV.

5F, Haubiru Nishi-Shimbashi, 2-35-2, Nishi-Shimbashi, Minato-ku TOKYO

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

*Registered Sytems Listed in alphabetical Order.

3 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
01384	Intersmooth 7465HS SPC	BEA774-Brown, BEA777-Red	Self Polishing Copolymer	1317-39-1	Cuprous oxide		2009/07/24	Japan ☐
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/12/17	Others ☒
01858	Intersmooth 7475Si SPC	Brown (BEA844), Red (BEA847)	Self Polishing Copolymer	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 ☒
01482	Interspeed 6400	BQA644-Red, BQA648-Brown	Conventional	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2011/03/24	Japan ☐
				1317-39-1	Cuprous oxide		2027/06/21	Others ☒

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This list was updated as of 2025/08/22

Other properties of registered products, such as Anti-fouling performance or safety properties, are not recognized.

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(2021 amendment)

Name of Manufacturer: BASSERU CHEMICAL CO., LTD.

6-10-6, Hikoshima-Honmura-cho, Shimonoseki-shi, YAMAGUCHI

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*Registered Sytems Listed in alphabetical Order.

5 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
00433	HR AF	Red	Conventional type	1317-39-1	Cuprous oxide		2005/03/11 2028/08/21	Japan ☒ Others ☐
00435	HR AF SC	Red	Ablative type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2005/03/11 2028/08/21	Japan ☒ Others ☐
00436	HR AF SP	Redbrown	Self polishing type	1317-39-1 13463-41-7	Cuprous oxide Zinc-2-pyridinethiol-1-oxide		2005/03/11 2028/08/21	Japan ☒ Others ☐
00440	SEASTORY MARINECHAN	Red, Blue	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2005/03/11 2028/08/21	Japan ☒ Others ☐
00441	SEASTORY SAM	Red, Blue, Black	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2005/03/11 2028/08/21	Japan ☒ Others ☐

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(2021 amendment)

Name of Manufacturer: CHUGOKU MARINE PAINTS, LTD.

16F, Toranomon Hills Station Tower, 2-6-1, Toranomon, Minato-ku, TOKYO

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

*Registered Sytems Listed in alphabetical Order.

78 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
01523	APPARE	Blue H, Red H, Black H, Light Red H	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2012/01/27 2026/06/15	Japan ☒ Others ☐
01211	CMP BIOCLEAR HB	Light Grey, Red Brown, Light Grey S, Red Brown S, Black S, Dark Blue S	Biocide-free silicon type	-	-		2007/05/28 2028/08/21	Japan ☒ Others ☒
01746	CMP BIOCLEAR N	Light Grey	Biocide-free silicon type				2020/07/29 2026/06/15	Japan ☒ Others ☐
01577	CMP BIOCLEAR PLUS	Black, Red Brown, Red Brown A	Foul Release Coating	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2014/02/14 2027/12/17	Japan ☒ Others ☒
01643	CMP BIOCLEAR PLUS	Red Brown S	Foul Release Coatings	13463-41-7 14915-37-8	Zinc-2-pyridinethiol-1-oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/08/26 2028/02/21	Japan ☒ Others ☒
01213	CMP BIOCLEAR R	Light Grey, Red Brown, Black, Off White, Ruby Red	Biocide-free silicon type	-	-		2007/05/28 2028/04/17	Japan ☒ Others ☒
01678	CMP BIOCLEAR R PLUS	Red Brown, Plum	Foul Release Coating	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/11/02 2026/08/17	Japan ☒ Others ☒
01484	CMP BIOCLEAR RS	Black	Biocide-free silicon type	-	-		2011/02/04 2028/04/17	Japan ☒ Others ☐
01365	MARINE STAR 30G	Green I, Blue I, Red Brown I, Silver White I, Red I, Green V, Red V, Blue V, Silver White V	Self polishing type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2009/04/03 2027/02/15	Japan ☒ Others ☐
01597	MARINE STAR A	White I, Blue I, Red Brown I, Green I, Red I, Black I	Self polishing type	1111-67-7 13463-41-7 64359-81-5	Cuprous Thiocyanate Zinc-2-pyridinethiol-1-oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2015/02/20 2026/10/26	Japan ☒ Others ☐

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Name of Manufacturer: CHUGOKU MARINE PAINTS, LTD.

*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 Expiry	Manufactured in
01519	NEW KAIO	Red H, Light Red H, Blue H, Black H	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2012/01/27 2026/06/15	Japan ☒ Others ☐
01522	NEW KAIO 200	Light Red, 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		2012/01/27 2026/10/26	Japan ☒ Others ☐
01671	NEW KAIO 300	Red, Blue, Black	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		2017/06/16 2026/06/15	Japan ☒ Others ☐
00277	NEW KAMOME	Blue, Red	Conventional type	1317-39-1	Cuprous oxide		2004/05/21 2028/06/05	Japan ☒ Others ☐
01592	NEW MARINE GOLD	White III, Blue III, Red Brown III, Green III, Red III, Black III	Self polishing type	1111-67-7 13463-41-7 64359-81-5	Cuprous Thiocyanate Zinc-2-pyridinethiol-1-oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2014/10/29 2026/10/26	Japan ☒ Others ☐
01564	NEW MARINE GOLD DX ALPHA	Red, Blue, Black	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 2028/06/05	Japan ☒ Others ☐
00288	NEW MARINE GOLD DX CLEAR	Clear	Self polishing type	-	-		2004/05/21 2027/06/21	Japan ☒ Others ☐
01769	NEW MARINE GOLD DX PLUS	White, Blue, Green, Red, Black	Self polishing type	13463-41-7 64359-81-5 86347-14-0	Zinc-2-pyridinethiol-1-oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☒ Others ☐
01696	NEW PELLER CLEAN PLUS FINISH	Yellow Brown	Foul Release Coating	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/02/16 2026/10/26	Japan ☒ Others ☐
01725	NEW PELLER CLEAN PLUS FINISH R	Yellow	Biocide-free silicon type				2019/04/19 2027/12/17	Japan ☒ Others ☐

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01620	SCREW AF COASTAL	Yellow Brown	Foul Release Coating	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2015/08/21 2027/06/21	Japan ☒ Others ☐
00206	SEA GRANDPRIX 1000	Red, Light Red	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/06/21 2026/06/15	Japan ☒ Others ☒
01463	SEA GRANDPRIX 1000 L	Light Brown, Brown, Blue, Brown K, Light Brown K Brown H, Light Brown H, Blue H	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2010/06/04 2027/12/17	Japan ☒ Others ☒
01255	SEA GRANDPRIX 200 R	Red, Light Red, Ogi Colour	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		2008/01/30 2027/06/21	Japan ☒ Others ☐
01616	SEA GRANDPRIX 2000 A	Light Red, Red, Purple, Blue, Black (1st coat), Black (2nd coat), Light Red N, Red N, Red K, Light Red K, Blue K, Red H, Light Red H, Blue H, Light Brown H, Light Brown R, Red R	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2015/06/19 2027/12/17	Japan ☒ Others ☒
01254	SEA GRANDPRIX 2000 S	Light Red, Red	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		2008/01/30 2028/02/21	Japan ☒ Others ☐
01432	SEA GRANDPRIX 220 HS	Brown S, Light Brown S, Black S	Self polishing type	1317-39-1	Cuprous oxide		2009/11/20 2028/08/21	Japan ☒ Others ☒
01784	SEA GRANDPRIX 2200	Light Brown, Red, Blue, Black	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2021/04/21 2026/04/20	Japan ☒ Others ☒
01320	SEA GRANDPRIX 500 HS	Red, Light Red, Purple, Red N, Light Red N	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2008/11/27 2027/08/23	Japan ☒ Others ☒

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01321	SEA GRANDPRIX 500 M HS	Red, Light Red, Light Red N, Red N	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2008/11/27 2028/06/05	Japan ☒ Others ☒
01329	SEA GRANDPRIX 660 HS	Brown, Light Brown, Brown S, Light Brown S, Black S	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2009/01/20 2028/08/21	Japan ☒ Others ☒
01702	SEA GRANDPRIX 770 HS	Brown, Light Brown	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2018/06/15 2027/06/21	Japan ☒ Others ☒
01745	SEA GRANDPRIX 800 EX	Brown, Red	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/07/29 2027/06/21	Japan ☒ Others ☐
01625	SEA GRANDPRIX 880 HS	Light Brown, Brown	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2015/12/18 2028/06/05	Japan ☒ Others ☒
01759	SEA GRANDPRIX 880 HS PLUS	Brown, Light Brown, Brown A, Light Brown A	Self polishing type	1317-39-1 64359-81-5 86347-14-0	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2028/08/21	Japan ☒ Others ☒
01699	SEA GRANDPRIX 900 L	Brown, Light Brown	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2018/06/15 2027/06/21	Japan ☒ Others ☒
01698	SEA GRANDPRIX 950 L	Brown, Light Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/06/15 2027/06/21	Japan ☒ Others ☒
01763	SEA GRANDPRIX CF-10 A	Blue N	Self polishing type	13463-41-7 86347-14-0	Zinc-2-pyridinethiol-1-oxide 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2028/06/05	Japan ☒ Others ☒
01764	SEA GRANDPRIX CF-10 L A	Light Red N, Red N	Self polishing type	14915-37-8 86347-14-0	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2028/06/05	Japan ☒ Others ☒
01768	SEA GRANDPRIX FBX PLUS	White II	Self polishing type	64359-81-5 86347-14-0	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☒ Others ☐
00291	SEA GRANDPRIX FRP	Light Red H	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/05/21 2027/06/21	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	Manufactured in
01552	SEA PREMIER 1000	Red, Light Red, Blue	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 2028/02/21	Japan ☒ Others ☒
01762	SEA PREMIER 1000 PLUS	Red N, Purple N, Blue N, Green	Self polishing type	14915-37-8 86347-14-0	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☒ Others ☐
01761	SEA PREMIER 1000 PLUS H	Light Red, Red	Self polishing type	13463-41-7 86347-14-0	Zinc-2-pyridinethiol-1-oxide 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☒ Others ☐
01833	SEA PREMIER 1000 PLUS Z	Red, Light Red	Self polishing type	13463-41-7 86347-14-0	Zinc-2-pyridinethiol-1-oxide 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2023/02/17 2026/02/16	Japan ☒ Others ☐
01861	SEA PREMIER 200 PLUS	Red, Light Red	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 ☐
01785	SEA PREMIER 2000 PLUS	Brown, Red, Red R, Brown R	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		2021/04/21 2027/02/15	Japan ☒ Others ☐
01796	SEA PREMIER 3000	Red, Light Brown, Black, Blue	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 ☐
01772	SEA PREMIER 3000 PLUS 1	Light Brown, Red, Blue	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		2021/03/04 2026/04/20	Japan ☒ Others ☐
01773	SEA PREMIER 3000 PLUS 2	Light Brown, Red, Black	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		2021/03/04 2026/04/20	Japan ☒ Others ☐
01462	SEA PREMIER 850	Red, Light Red	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2010/06/04 2027/08/23	Japan ☒ Others ☐

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01674	SEA PREMIER CF Z	Light Red, Red	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 2026/06/15	Japan ☒ Others ☐
01591	SEAFLO NEO 500 Z	Red, Light Red, Brown, Light Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2014/08/22 2026/10/26	Japan ☒ Others ☒
01766	SEAFLO NEO CF PREMIUM	Light Red, Red, Light Red S, Red S, Light Red R, Red R	Self polishing type	14915-37-8 86347-14-0	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2028/06/05	Japan ☒ Others ☒
01788	SEAFLO NEO CF PREMIUM EX	Light Red R, Red R	Self polishing type	122454-29-9 14915-37-8 86347-14-0	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/07/06 2028/06/05	Japan ☒ Others ☒
01626	SEAFLO NEO CF Z	Red, Light Red	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		2015/12/18 2027/08/23	Japan ☒ Others ☒
01822	SEAFLO NEO CF Z	Light Red A, Red A	Self polishing type	122454-29-9 14915-37-8	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2022/06/17 2028/04/17	Japan ☒ Others ☒
01830	SEAFLO NEO CF Z SUPER	Red A	Self polishing type	122454-29-9 14915-37-8 86347-14-0	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2022/12/13 2025/12/12	Japan ☒ Others ☐
01776	SEAFLO NEO M1 PLUS	Light Brown, Brown	Self polishing type	1317-39-1 64359-81-5 86347-14-0	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2028/06/05	Japan ☒ Others ☒
01812	SEAFLO NEO SL M	Brown, Light Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2022/02/18 2028/06/05	Japan ☒ Others ☒

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: CHUGOKU MARINE PAINTS, LTD.

*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 Expiry	Manufactured in
01579	SEAFLO NEO SL Z	Brown, Light Brown, Brown K, Light Brown K, Brown H, Light Brown H, Blue	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2014/02/14 2027/12/17	Japan ☒ Others ☒
01770	SEAFLO NEO SL Z PLUS	Light Brown, Brown	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		2021/03/04 2028/06/05	Japan ☒ Others ☒
01875	SEAFLO NEO SL ZX	Light Brown, Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2025/04/18 2028/04/17	Japan ☒ Others ☒
01827	SEAFLO NEO SNF-S	Brown H, Light Brown H	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2022/10/21 2028/08/21	Japan ☒ Others ☐
01629	SEAFLO NEO Z	Red N2, Light Red N2	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/02/18 2027/08/23	Japan ☒ Others ☒
01760	SEAFLO NEO Z PLUS	Light Red, Red	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		2021/03/04 2028/06/05	Japan ☒ Others ☒
01771	SEAFLO NEO-S PREMIUM	Brown D	Self polishing type	1317-39-1 14915-37-8 64359-81-5 86347-14-0	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2028/06/05	Japan ☒ Others ☒
01580	SEAFLO NEO-S Z	Red, Light Red, Red N, 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		2014/02/14 2026/10/26	Japan ☒ Others ☒
01360	SEAJET 033	Shark White I, Blue I, Red I, Black I	Self polishing type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2009/04/03 2026/10/26	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: CHUGOKU MARINE PAINTS, LTD.

*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 Expiry	Manufactured in
01789	SEAJET 033 PREMIUM	Blue I, Black I, Shark White I, Red I	Self polishing type	1317-39-1 330-54-1 64359-81-5 86347-14-0	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/07/06 2028/02/21	Japan ☒ Others ☐
01775	SEAJET 037	Pure White, Pure Black, Pure Red, Pure Blue	Self polishing type	13463-41-7 64359-81-5 86347-14-0	Zinc-2-pyridinethiol-1-oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☒ Others ☐
01585	SEAJET 039	Ash Black H, Ash Blue H, Ash Grey H	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2014/04/11 2026/06/15	Japan ☒ Others ☐
01586	SEAJET 039	Ash Grey	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		2014/04/11 2028/08/21	Japan ☒ Others ☐
01487	SEATENDER 20	Light Brown, Brown, Black, Blue	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2011/03/24 2025/12/12	Japan ☒ Others ☒
01486	SEATENDER 7	Red Brown	Conventional type	1317-39-1	Cuprous oxide		2011/03/24 2025/12/12	Japan ☒ Others ☒
01813	TFA-10A	Red, Light Red, Black	Self polishing type	1317-39-1	Cuprous oxide		2022/02/18 2027/12/17	Japan ☒ Others ☒
01578	TFA-30	Silver White, Black, Red, Blue	Self polishing type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2014/02/14 2028/06/05	Japan ☒ Others ☒
00263	VINYL AF	Red Brown	Conventional type	1317-39-1	Cuprous oxide		2004/05/21 2027/08/23	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: HEMPEL A/S

Lundtoftegaardsvej 90, Kongens Lyngby, Denmark

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

*Registered Systems Listed in alphabetical Order.

30 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
01851	Hempablue 87750	19990, 59151	Biocide free, fouling release type	–	–		2024/02/16 2027/12/17	Japan ☐ Others ☒
01863	Hempaguard NB, 89970	19990	Hybrid type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2024/12/17 2027/12/17	Japan ☐ Others ☒
01581	Hempaguard X5 89700	19740, 59161	Hybrid type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2014/04/11 2027/12/17	Japan ☐ Others ☒
01582	Hempaguard X7 89900	19740, 19744, 59161, 59164	Hybrid type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2014/04/11 2027/12/17	Japan ☐ Others ☒
01736	Hempaguard X8 89940	19740, 59161	Hybrid type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/21 2027/12/17	Japan ☐ Others ☒
01864	Hempaguard XL, 88710	59151	Biocide free, fouling release				2024/12/17 2027/12/17	Japan ☐ Others ☒
01627	Hempasil X3+ 87500	15150, 19990, 30170, 47560, 59151	Biocide free, fouling release type	–	–		2016/04/22 2027/12/17	Japan ☐ Others ☒
01712	Hempel's Antifouling Dynamic 9000 79900	19900, 51110, 60600	Hydrolysing silyl acrylate type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/12/07 2027/12/17	Japan ☐ Others ☒
01713	Hempel's Antifouling Dynamic 9000 79950	51110, 60600	Hydrolysing silyl acrylate type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/12/07 2027/02/15	Japan ☐ Others ☒
01686	Hempel's Antifouling Globic 6000 75952	19990, 51110, 60600	Self-polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/02/16 2027/02/15	Japan ☐ Others ☒
01547	HEMPEL'S ANTIFOULING GLOBIC 6000, 75950	19990, 51110, 60600	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2013/02/15 2027/12/17	Japan ☐ Others ☒

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: HEMPEL A/S

*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 Expiry	Manufactured in
01734	Hempel's Antifouling Globic 7000 78350	19990, 51110, 60600	Hydrolysing SPC type	12122-67-7 1317-39-1 14915-37-8	Zinc ethylenebis (dithiocarbamate) Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/21 2027/12/17	Japan ☐ Others ☒
01595	HEMPEL'S ANTIFOULING GLOBIC 8000 78550	19990, 40640, 51110, 60600	Hydrolysing SPC	12122-67-7 1317-39-1 14915-37-8	Zinc ethylenebis (dithiocarbamate) Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2015/02/20 2027/12/17	Japan ☐ Others ☒
01687	Hempel's Antifouling Globic 9000 78902	19990, 30170, 51110, 60600	Self-polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/02/16 2027/02/15	Japan ☐ Others ☒
01688	Hempel's Antifouling Globic 9000 78952	19990, 30170, 51110, 60600	Self-polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/02/16 2027/02/15	Japan ☐ Others ☒
01548	HEMPEL'S ANTIFOULING GLOBIC 9000, 78900	19990, 30170, 51110, 60600	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2013/02/15 2027/12/17	Japan ☐ Others ☒
01549	HEMPEL'S ANTIFOULING GLOBIC 9000, 78950	19990, 19994, 30170, 51110, 51114, 60600, 60604	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2013/02/15 2027/12/17	Japan ☐ Others ☒
01672	HEMPEL'S ANTIFOULING GLOBIC 9500 M 78954	19990, 30170, 51110, 60600	Hydrolyzing NAT	12122-67-7 1317-39-1 14915-37-8 64359-81-5	Zinc ethylenebis (dithiocarbamate) Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2017/06/16 2027/12/17	Japan ☐ Others ☒
01682	Hempel's Antifouling Globic 9500N 7895N	19990, 37030, 51110, 60600	Hydrolysing SPC	12122-67-7 1317-39-1 14915-37-8 64359-81-5	Zinc ethylenebis (dithiocarbamate) Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2018/02/16 2027/12/17	Japan ☐ Others ☒
01757	Hempels' Antifouling Globic 9500S 7895S	19990, 51110, 60600	Hydrolysing NAT	1317-39-1 14915-37-8 64359-81-5 86347-14-0	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☐ Others ☒

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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 as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: HEMPEL A/S

*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 Expiry	Manufactured in
01755	Hempel's Antifouling Oceanic Flex+ 7390W	19990, 30170, 42650, 551110, 60600	Hydrolysing SPC type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2021/03/04 2027/12/17	Japan ☐ Others ☒
01756	Hempel's Antifouling Oceanic Protect+ 7395W	19990, 30170, 51110, 60600	Hydrolysing SPC type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2021/03/04 2027/12/17	Japan ☐ Others ☒
01710	Hempel's Antifouling Oceanic+ 73902	19990, 30170, 42650, 51110, 60600	Self polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2018/12/07 2027/12/17	Japan ☐ Others ☒
01711	Hempel's Antifouling Oceanic+ 73952	19990, 30170, 51110, 60600	Self polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2018/12/07 2027/12/17	Japan ☐ Others ☒
01753	Hempels' Antifouling Olympic Flex+ 7290W	19990, 30170, 51110, 60600	Self-polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2021/03/04 2027/12/17	Japan ☐ Others ☒
01752	Hempel's Antifouling Olympic Protect 7195W	51110, 60600	Self-polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2021/03/04 2027/12/17	Japan ☐ Others ☒
01754	Hempel's Antifouling Olympic Protect+ 7295W	19990, 30170, 51110, 60600	Self-polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2021/03/04 2027/12/17	Japan ☐ Others ☒
01543	HEMPEL'S ANTIFOULING OLYMPIC+, 72900	19990, 30170, 43890, 51110, 60600	Self polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2013/02/15 2027/12/17	Japan ☐ Others ☒
01544	HEMPEL'S ANTIFOULING OLYMPIC+, 72950	19990, 30170, 43890, 51110, 60600	Self polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2013/02/15 2027/12/17	Japan ☐ Others ☒
01834	Hempel's Antifouling Sonic 79970	19990, 30170, 51110, 60600	Hydrolysing SA type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2023/02/17 2027/12/17	Japan ☐ Others ☒

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: ISHIKAWA PAINT CO., LTD.
4-18-31, Kashima, Yodogawa-ku, Osaka-shi, OSAKA

*Continuation process must be taken every 3 years for each system.
*Registered Sytems Listed in alphabetical Order.

16 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
00337	CLEANCOAT	Reddish Brown, Red, Blue	Self-polishing hydration type	1317-39-1 1897-45-6 330-54-1	Cuprous oxide 2,4,5,6-Tetrachloroisophthalonitrile 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2004/10/26 2028/06/05	Japan ☒ Others ☐
00338	CLEANCOAT	White	Self-polishing hydration type	1897-45-6 330-54-1	2,4,5,6-Tetrachloroisophthalonitrile 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2004/10/26 2025/04/17	Japan ☒ Others ☐
00340	CLEANCOAT A/F HP	Red, Blue, Brown	Self-polishing hydration type	1317-39-1 330-54-1	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2004/10/26 2025/04/17	Japan ☒ Others ☐
00339	CLEANCOAT SUPER A/F	Light Brown	Self-polishing hydration type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/10/26 2025/04/17	Japan ☒ Others ☐
00342	NEWSEARON	Red, Blue, Green, Black	Self-polishing hydrolysys type	13108-52-6 1317-39-1 14915-37-8	2,3,5,6-Tetrachloro-4-(methylsulphonyl)pyridine Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2005/02/17 2025/04/17	Japan ☒ Others ☐
00344	NEWSEARON 1000 A/F	Red, Brown	Self-polishing hydrolysys type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/10/26 2028/06/05	Japan ☒ Others ☐
00345	NEWSEARON 2000 A/F	Red, Brown	Self-polishing hydrolysys type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/10/26 2028/06/05	Japan ☒ Others ☐
00346	NEWSEARON 2000A A/F	Brown, Dark Brown	Self-polishing hydrolysys type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/10/26 2028/06/05	Japan ☒ Others ☐
00347	NEWSEARON 3000 A/F	Red, Brown	Self-polishing hydrolysys type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/10/26 2028/06/05	Japan ☒ Others ☐
00343	NEWSEARON F	Red	Self-polishing hydrolysys type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/10/26 2028/06/05	Japan ☒ Others ☐
00349	NEWSEARON SEACHEST A/F	Red, Brown	Self-polishing hydrolysys type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/10/26 2028/06/05	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: ISHIKAWA PAINT CO., LTD.

*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 Expiry	Manufactured in
00355	POISON	Reddish brown	Self-polishing type	1317-39-1	Cuprous oxide		2004/10/26 2028/06/05	Japan ☒ Others ☐
00356	RABACOAT A/F C	Reddish brown	Ablative type	1317-39-1	Cuprous oxide		2004/10/26 2028/06/05	Japan ☒ Others ☐
00353	VINIHard A/F	Reddish brown	Ablative type	1317-39-1	Cuprous oxide		2004/10/26 2028/06/05	Japan ☒ Others ☐
00354	VINIHard A/F #1000	Reddish brown	Ablative type	1317-39-1	Cuprous oxide		2004/10/26 2028/06/05	Japan ☒ Others ☐
00352	VINYCRON A/F	Reddish brown	Ablative type	1317-39-1	Cuprous oxide		2004/10/26 2028/06/05	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KANAE PAINT CO., LTD.

1-6-13, Hanaten-Higashi, Tsurumi-ku, Osaka-shi, OSAKA

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

*Registered Sytems Listed in alphabetical Order.

10 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
00062	CLEAN TOP DELUXE	Clear	Biocide-free silicon type	-	-		2004/03/18 2027/12/17	Japan ☒ Others ☐
01859	KANAE PORT A/F #5000 TA-11	Red, AutumnRed, Brown, Blue, Black	Self-polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2024/08/23 2027/08/23	Japan ☒ Others ☐
01574	KANAE PORT A/F #5000msKAI	Red N, Brown N	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		2014/02/14 2026/02/16	Japan ☒ Others ☐
01573	KANAE PORT A/F #7000B KAI	Red N, Brown N, 808Blue N	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		2014/02/14 2026/02/16	Japan ☒ Others ☐
01748	KANAE PORT A/F CLEAN #2000 HD	Redbrown N	Ablative type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2020/07/29 2026/06/15	Japan ☒ Others ☐
01749	KANAE PORT A/F CLEAN #4000	Redbrown N	Ablative type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2020/07/29 2026/06/15	Japan ☒ Others ☐
01750	KANAE PORT A/F CLEAN #5000 M	White N	Self polishing type	64359-81-5 971-66-4	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one Pyridine-triphenylborane		2020/07/29 2026/06/15	Japan ☒ Others ☐
00014	KANAE PORT A/F CLEAN #5000 N-10	Red,Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/03/18 2027/12/17	Japan ☒ Others ☐
00003	KR-A/F N	Brown, D Brown	Conventional type	1317-39-1	Cuprous oxide		2004/03/18 2027/08/23	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KANAE PAINT CO., LTD.

*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	
01860	RE;OCEAN ZERO	Red, AutumnRed, Brown, 808Blue	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 ☐
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea			

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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 as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KANSAI PAINT MARINE CO., LTD.

3-12-1, Minamirokugo, Ota-ku, TOKYO

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

*Registered Sytems Listed in alphabetical Order.

71 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
00121	AF FOR SEA CHEST	Brown	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/03/18 2027/12/17	Japan ☒ Others ☐
01424	AF MX-2080	Light Brown, Brown	Self polishing hydrolysis type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2009/07/24 2027/06/21	Japan ☒ Others ☐
01720	AF MX-2121N	Light Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/04/19 2027/12/17	Japan ☒ Others ☐
01843	AF MX-2150N	Light Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2023/12/15 2026/12/14	Japan ☒ Others ☐
01867	A-F MX-2196N	Light Brown, Dark Brown	Self polishing hydrolysis type	122454-29-9 13463-41-7	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide		2024/12/17 2027/12/17	Japan ☒ Others ☐
01876	A-F MX-2263N	Light Brown, Dark 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		2025/08/22 2028/08/21	Japan ☒ Others ☐
01877	A-F MX-2273N	Light Brown, Dark 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		2025/08/22 2028/08/21	Japan ☒ Others ☐
01314	CLEAR EXION	Clear	Self polishing hydrolysis type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2008/12/15 2026/10/26	Japan ☒ Others ☐
00123	C-RUBAN A/F	Brown	Ablative type	1317-39-1	Cuprous oxide		2004/03/18 2027/12/17	Japan ☒ Others ☐
00128	C-RUBAN A/F for SUBMARINE	Brown	Ablative type	1317-39-1	Cuprous oxide		2004/03/18 2027/12/17	Japan ☒ Others ☐
00129	C-RUBAN B/T for SUBMARINE	Black	Ablative type	1317-39-1	Cuprous oxide		2004/03/18 2027/12/17	Japan ☒ Others ☐

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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 as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KANSAI PAINT MARINE CO., LTD.

*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 Expiry	Manufactured in
01878	EVERCLEAN No.2000	Clear	Biocide-free silicone type				2025/08/22 2028/08/21	Japan ☒ Others ☐
00157	NEWPLADOL for SUBMARINE	Black	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/03/18 2027/12/17	Japan ☒ Others ☐
01865	SEA GLIDE 80	Light Brown, Dark Brown	Self polishing hydrolysis type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2024/12/17 2027/12/17	Japan ☒ Others ☐
01866	SEA GLIDE 96	Light Brown, Dark Brown	Self polishing hydrolysis type	122454-29-9 13463-41-7	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide		2024/12/17 2027/12/17	Japan ☒ Others ☐
01847	SEA MX-2000BT	White	Self polishing hydrolysis type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2024/02/16 2027/02/15	Japan ☒ Others ☐
01306	SHIN LLL No.100	Brown, Red, Dark Brown, Light Brown, Chocolat, Rouille, Blue, Brown K	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2008/12/15 2025/12/12	Japan ☒ Others ☐
01728	SHIN LLL PB2	Light Brown, Dark Brown	Self polishing hydrolysis type	12122-67-7 1317-39-1 14915-37-8	Zinc ethylenebis (dithiocarbamate) Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/10/18 2028/04/17	Japan ☒ Others ☐
01832	TAKARABUNE Type2	Red, Blue, Black, White, Green	Self polishing hydrolysis type	13463-41-7 64359-81-5	Zinc-2-pyridinethiol-1-oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2023/02/17 2026/02/16	Japan ☒ Others ☐
01311	TAKATA A/F for SUBMARINE	Black	Ablative type	1317-39-1	Cuprous oxide		2008/12/15 2026/10/26	Japan ☒ Others ☐
01297	TAKATA QUANTUM	MOL Green, Luminous Blue, Blue	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2008/12/15 2026/10/26	Japan ☒ Others ☐
00401	TAKATA QUANTUM CLASSIC	Light Brown, Dark Brown, Dark Red, Light Red, Blue	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/12/22 2025/12/12	Japan ☒ Others ☐

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

This list was updated as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KANSAI PAINT MARINE CO., LTD.

*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 Expiry	Manufactured in
01704	TAKATA QUANTUM CLASSIC (R)	Light Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/08/24 2027/06/21	Japan ☒ Others ☐
01828	TAKATA QUANTUM EV	Brown	Self polishing hydrolysis 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 ☐
00403	TAKATA QUANTUM FB	Light Brown, Dark Brown, Light Red, Dark Red	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/12/22 2025/12/12	Japan ☒ Others ☐
01716	TAKATA QUANTUM FB	Ligth Brown N, Dark Brown N, Light Brown L, Dark Brown L	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/02/08 2027/12/17	Japan ☒ Others ☐
01729	TAKATA QUANTUM FB(M)	Light Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/10/18 2028/04/17	Japan ☒ Others ☐
01427	TAKATA QUANTUM FB(R)	Light Brown, Dark Brown, Light Red, Dark Red	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2009/07/24 2025/12/12	Japan ☒ Others ☐
01717	TAKATA QUANTUM FB(R)	Ligth Brown N, Dark Brown N, Light Brown L, Dark Brown L	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/02/08 2027/12/17	Japan ☒ Others ☐
01709	TAKATA QUANTUM FOCUS I	Light Brown, Dark Brown, Light Red, Dark Red	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/12/07 2027/12/17	Japan ☒ Others ☐
00146	TAKATA QUANTUM for COASTAL VESSEL	Brown, Red, Dark Brown, Light Brown, Blue, Green, Brown S, Dark Brown S	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/03/18 2026/10/26	Japan ☒ Others ☐
01662	TAKATA QUANTUM for COASTAL VESSEL V	Brown, Dark Brown, Red, Black, Brown S, Dark Brown S	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/02/24 2026/10/26	Japan ☒ Others ☐

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This list was updated as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KANSAI PAINT MARINE CO., LTD.

*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 Expiry	Manufactured in
00145	TAKATA QUANTUM for FISHING VESSEL	Brown, Red, Dark Brown	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/03/18 2027/12/17	Japan ☒ Others ☐
01855	TAKATA QUANTUM G1000	Brown	Self polishing hydrolysis 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		2024/06/21 2027/06/21	Japan ☒ Others ☐
01856	TAKATA QUANTUM G2000	Brown, Dark Brown	Self polishing hydrolysis 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		2024/06/21 2027/06/21	Japan ☒ Others ☐
01857	TAKATA QUANTUM G3000	Brown, Dark Brown	Self polishing hydrolysis 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		2024/06/21 2027/06/21	Japan ☒ Others ☐
01815	TAKATA QUANTUM GX-2200N	Brown, Dark Brown	Self polishing hydrolysis 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		2022/04/18 2028/02/21	Japan ☒ Others ☐
00385	TAKATA QUANTUM LLL	Light Brown, Dark Brown, Brown, Dark	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/12/22 2025/12/12	Japan ☒ Others ☐
01315	TAKATA QUANTUM LLL FB	Light Brown, Dark Brown, Light Red, Dark Red, Brown, Light	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2008/12/15 2025/12/12	Japan ☒ Others ☐
01818	TAKATA QUANTUM MX-2145N	Light Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2022/04/18 2027/12/17	Japan ☒ Others ☐
00143	TAKATA QUANTUM ND	Light Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2004/03/18 2027/12/17	Japan ☒ Others ☐
01819	TAKATA QUANTUM ND	Brown G	Self polishing hydrolysis 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		2022/04/18 2027/12/17	Japan ☒ Others ☐

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This list was updated as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KANSAI PAINT MARINE CO., LTD.

*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 Expiry	Manufactured in
00402	TAKATA QUANTUM PLUS	Light Brown, Dark Brown, Blue, Red, Light Red, Dark Red	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/12/22	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2025/12/12	Others ☐
01426	TAKATA QUANTUM PLUS(R)	Light Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2009/07/24	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/06/21	Others ☐
01862	TAKATA QUANTUM PLUS(R) ADVANCE	Light Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2024/10/18	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/10/18	Others ☐
01705	TAKATA QUANTUM R5000	Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2018/10/26	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/06/21	Others ☐
01706	TAKATA QUANTUM R8000	Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2018/10/26	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/06/21	Others ☐
00400	TAKATA QUANTUM ULTRA	Light Brown, Dark Brown	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/12/22	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2025/12/12	Others ☐
01669	TAKATA QUANTUM X-mile 000	Brick, Maroon	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2017/06/16	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2026/06/15	Others ☐
01670	TAKATA QUANTUM X-mile 000 FB	Brick, Maroon	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2017/06/16	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2026/06/15	Others ☐
01491	TAKATA QUANTUM X-mile 001	Brick, Maroon	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2011/06/03	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2025/12/12	Others ☐
01492	TAKATA QUANTUM X-mile 002	Brick, Maroon, Blue	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2011/06/03	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2025/12/12	Others ☐
01493	TAKATA QUANTUM X-mile 003	Brick, Maroon, Brick R. Maroon R	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2011/06/03	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2026/04/20	Others ☐
01494	TAKATA QUANTUM X-mile 005	Brick, Maroon, Brick S, Maroon S	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2011/06/03	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2026/10/26	Others ☐
01495	TAKATA QUANTUM X-mile 006	Brick, Maroon, Blue, Brick S, Maroon S	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2011/06/03	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/12/17	Others ☐

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

This list was updated as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KANSAI PAINT MARINE CO., LTD.

*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 Expiry	Manufactured in
01496	TAKATA QUANTUM X-mile 007	Brick, Maroon, Brick S, Maroon S	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2011/06/03 2026/10/26	Japan ☒ Others ☐
01708	TAKATA QUANTUM X-mile EV	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/12/07 2027/12/17	Japan ☒ Others ☐
01666	TAKATA QUANTUM X-mile FB	Brick, Maroon, Brick R, Maroon R	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/06/16 2027/06/21	Japan ☒ Others ☐
01806	TAKATA QUANTUM X-mile MX-2046N	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2021/12/03 2027/06/21	Japan ☒ Others ☐
01665	TAKATA QUANTUM X-mile ND	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/06/16 2026/06/15	Japan ☒ Others ☐
01714	X-mile EV	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/02/08 2027/12/17	Japan ☒ Others ☐
01715	X-mile EV FB	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/02/08 2027/12/17	Japan ☒ Others ☐
01630	X-mile Premium 101	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/04/22 2028/04/17	Japan ☒ Others ☐
01631	X-mile Premium 102	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/04/22 2028/04/17	Japan ☒ Others ☐
01633	X-mile Premium 105	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/04/22 2027/12/17	Japan ☒ Others ☐
01634	X-mile Premium 106	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/04/22 2027/12/17	Japan ☒ Others ☐
01635	X-mile Premium 107	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/04/22 2027/12/17	Japan ☒ Others ☐
01636	X-mile Premium 108	Brick, Maroon	Self polishing hydrolysis type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/04/22 2027/12/17	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KANSAI PAINT MARINE CO., LTD.

*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 Expiry	Manufactured in
01707	X-mile Premium FB	Brick, Maroon	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2018/10/26	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/06/21	Others ☐
01804	X-mile Premium ND	Brick, Maroon	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2021/12/03	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/06/21	Others ☐
01805	X-mile Premium ND	Brick K, Maroon K	Self polishing hydrolysis type	1317-39-1	Cuprous oxide		2021/12/03	Japan ☒
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-			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.

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

This list was updated as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KOBE PAINTS, LTD.

Aza Hyakuchobu, Rokubuichi, Inami-cho Kako-gun, HYOGO

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

*Registered Sytems Listed in alphabetical Order.

45 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
01778	AGESHIO	White, Black, Blue, Red	Self polishing type	13463-41-7 64359-81-5 86347-14-0	Zinc-2-pyridinethiol-1-oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☒ Others ☐
01777	AQUA ACE 3000 PLUS	White, Black, Blue, Red	Self polishing type	13463-41-7 64359-81-5 86347-14-0	Zinc-2-pyridinethiol-1-oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☒ Others ☐
01331	CLEAN A/F 1000	Brown, Red	Conventional type	1317-39-1	Cuprous oxide		2009/04/03 2027/06/21	Japan ☒ Others ☐
01503	KP ACE A/F ST 20	Light Brown, Brown, Black	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2011/10/14 2028/04/17	Japan ☒ Others ☐
01809	KP ACE A/F ST 7	Red Brown	Conventional type	1317-39-1	Cuprous oxide		2021/12/03 2027/12/17	Japan ☒ Others ☐
01332	NEW PLACOAT	Red, Blue, Brown	Conventional type	1317-39-1	Cuprous oxide		2009/04/03 2027/06/21	Japan ☒ Others ☐
01569	OCEAN PREMIER 1000	Light Red, Red, Blue	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 2028/08/21	Japan ☒ Others ☐
01780	OCEAN PREMIER 1000 PLUS	Purple N, Red N	Self polishing type	14915-37-8 86347-14-0	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☒ Others ☐
01781	OCEAN PREMIER 1000 PLUS H	Light Red, Red	Self polishing type	13463-41-7 86347-14-0	Zinc-2-pyridinethiol-1-oxide 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/03/04 2027/02/15	Japan ☒ Others ☐
01872	OCEAN PREMIER 1000 PLUS Z	Light Red, Red	Self polishing type	13463-41-7 86347-14-0	Zinc-2-pyridinethiol-1-oxide 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2025/04/18 2028/04/17	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KOBE PAINTS, LTD.

*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 Expiry	Manufactured in
01873	OCEAN PREMIER 1000 PLUS Z	Brown, Red, Red R, Brown R	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		2025/04/18 2028/04/17	Japan ☒ Others ☐
01779	OCEAN PREMIER 200 PLUS	Light Red, Red	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		2021/03/04 2027/02/15	Japan ☒ Others ☐
01790	OCEAN PREMIER 3000	Light Brown, Red	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2021/08/20 2027/08/23	Japan ☒ Others ☐
01783	OCEAN PREMIER 3000 PLUS	Light Brown, Red	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		2021/03/04 2027/02/15	Japan ☒ Others ☐
01791	OCEAN PREMIER 3000 PLUS 1	Light Brown, Red	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		2021/08/20 2027/08/23	Japan ☒ Others ☐
01792	OCEAN PREMIER 3000 PLUS 2	Light Brown, Red	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		2021/08/20 2027/08/23	Japan ☒ Others ☐
01637	OCEAN PREMIER 800 Z	Purple, Light Red, Red, Light Red N, Red N, Blue, Light Red H, Red H, Blue H, Light Brown H, Light Brown R, Red R	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/04/22 2028/08/21	Japan ☒ Others ☐
01649	OCEAN-DYNA NEO	Light Red N2, Red N2	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/12/07 2025/12/12	Japan ☒ Others ☐
01621	OCEAN-DYNA NEO 500 Z	Light Red, Red	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2015/08/21 2027/08/23	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KOBE PAINTS, LTD.

*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 Expiry	Manufactured in
01870	OCEAN-DYNA NEO CF PREMIUM	Light Red R, Red R	Self polishing type	14915-37-8 86347-14-0	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2025/04/18 2028/04/17	Japan ☒ Others ☐
01647	OCEAN-DYNA NEO CF Z	Light Red, Red	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		2016/08/26 2028/08/21	Japan ☒ Others ☐
01601	OCEAN-DYNA NEO FLAT Z	Light Red, Red	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2015/02/20 2027/02/15	Japan ☒ Others ☐
01808	OCEAN-DYNA NEO M1 PLUS	Light Brown, Brown	Self polishing type	1317-39-1 64359-81-5 86347-14-0	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/12/03 2027/12/17	Japan ☒ Others ☐
01539	OCEAN-DYNA NEO SL	Light Brown, Brown, Light Brown H, Brown H	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2012/12/10 2026/06/15	Japan ☒ Others ☐
01871	OCEAN-DYNA NEO SL M	Light Brown, Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2025/04/18 2028/04/17	Japan ☒ Others ☐
01599	OCEAN-DYNA NEO SL Z	Light Brown, Brown, Light Brown H, Brown H	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2015/02/20 2026/06/15	Japan ☒ Others ☐
01650	OCEAN-DYNA NEO Z	Light Red N2, Red N2	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/12/07 2025/12/12	Japan ☒ Others ☐
01807	OCEAN-DYNA NEO Z PLUS	Light Red, Red	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		2021/12/03 2027/12/17	Japan ☒ Others ☐
01566	OCEAN-DYNA NEO-S	Light Red, Red	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		2013/08/22 2028/08/21	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KOBE PAINTS, LTD.

*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 Expiry	Manufactured in
01869	OCEAN-DYNA NEO-S PREMIUM	Brown D	Self polishing type	1317-39-1 14915-37-8 64359-81-5 86347-14-0	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2025/04/18 2028/04/17	Japan ☒ Others ☐
01602	OCEAN-DYNA NEO-S Z	Light Red, Red, Red N, 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		2015/02/20 2027/02/15	Japan ☒ Others ☐
01461	OYASHIO	Red	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		2010/06/04 2028/04/17	Japan ☒ Others ☐
01459	SOKOPEN	Red, Blue	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2010/06/04 2028/04/17	Japan ☒ Others ☐
01490	SUPER A/F 1000L	Light Brown, Brown, Dark Brown, Light Brown H, Brown H	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2011/06/03 2026/06/15	Japan ☒ Others ☐
01337	SUPER A/F 200 R	Red, Light Red	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		2009/04/03 2027/06/21	Japan ☒ Others ☐
01638	SUPER A/F 2000 A	Purple, Light Red, Red, Light Red N, Red N, Blue, Black (1st coat), Black (2nd coat), Light Red H, Red H, Blue H, Light Brown H, Light Brown R, Red R	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2016/04/22 2028/08/21	Japan ☒ Others ☐
01340	SUPER A/F 2000 S	Red, Light Red	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		2009/04/03 2027/06/21	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: KOBE PAINTS, LTD.

*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 Expiry	Manufactured in
01793	SUPER A/F 2200	Light Brown, Red	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2021/08/20 2027/08/23	Japan ☒ Others ☐
01452	SUPER A/F 500 HS	Purple, Light Red, Red, Light Red N, Red N	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2010/08/06 2026/10/26	Japan ☒ Others ☐
01453	SUPER A/F 500 M HS	Light Red, Red, Light Red N, Red N	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2010/08/06 2026/10/26	Japan ☒ Others ☐
01439	SUPER A/F 660 HS	Brown, Light Brown, Brown S, Light Brown S, Brown R, Light Brown R	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2009/11/20 2028/08/21	Japan ☒ Others ☐
01721	SUPER A/F 880 HS	Light Brown, Brown	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2019/04/19 2028/04/17	Japan ☒ Others ☐
01874	SUPER A/F 880 HS PLUS	Light Brown, Brown, Light Brown A, Brown A	Self polishing type	1317-39-1 64359-81-5 86347-14-0	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2025/04/18 2028/04/17	Japan ☒ Others ☐
01823	SUPER A/F 950 L	Light Brown, Brown	Self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2022/08/19 2028/08/21	Japan ☒ Others ☐
01810	SUPER A/F CF-10 L A	Light Red N, Red N	Self polishing type	14915-37-8 86347-14-0	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2021/12/03 2027/12/17	Japan ☒ Others ☐

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: NIPPON PAINT (COATINGS) PHILIPPINES, INC.

#4 Hologram St, Light Industry Science Park, Cabuyao, Laguna, Philippines

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

*Registered Sytems Listed in alphabetical Order.

2 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
01839	BIOFLEX 800	RED BROWN (PH) D, GREEN (PH) D	Controlled Depletion Polymer Type	1317-39-1	Cuprous oxide		2023/12/15	Japan ☐
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2027/12/17	Others ☒
01840	ECOLOFLEX SPC200	LIGHT BROWN (PH) K, DARK BROWN (PH) K	Self polishing type	1317-39-1	Cuprous oxide		2023/12/15	Japan ☐
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2026/12/14	Others ☒

[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 2025/08/22



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 ☒

[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 2025/08/22



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

(2021 amendment)

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

*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 Expiry	Manufactured in
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 ☒

[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 2025/08/22



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

(2021 amendment)

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

*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 Expiry	Manufactured in
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 ☒

[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 2025/08/22



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

(2021 amendment)

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

*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 Expiry	Manufactured in
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 ☒

[NOTE] Registered products are recognised to be compliant with IMO "International Convention on the Control of Harmful Anti-fouling Systems on Ships".

This list was updated as of 2025/08/22

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.



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

(2021 amendment)

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

*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 Expiry	Manufactured in
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 ☒

[NOTE] Registered products are recognised to be compliant with IMO "International Convention on the Control of Harmful Anti-fouling Systems on Ships".

This list was updated as of 2025/08/22

Other properties of registered products, such as Anti-fouling performance or safety properties, are not recognized.

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

(2021 amendment)

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

*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 Expiry	Manufactured in
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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This list was updated as of 2025/08/22

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.



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

(2021 amendment)

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

*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 Expiry	Manufactured in
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 ☒
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 ☐

*Under continuation application.

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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 as of 2025/08/22



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 Sytems Listed in alphabetical Order.

22 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
00083	Crown Color Sentei Toryou YS Musuzu	Red, Red Brown	Ablative type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2004/03/18 2027/12/17	Japan ☒ Others ☐
00081	Crown Super 243	Red, Black	Self polishing type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2004/03/18 2026/06/15	Japan ☒ Others ☐
01868	PPG Nexeon 810	Brown Redbrown	Self polishing type	122454-29-9 13463-41-7 86347-14-0	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole		2025/02/21 2028/02/21	Japan ☐ Others ☒
01114	Sigma Alphagen 650	Redbrown, Brown	Self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2006/04/25 2025/12/12	Japan ☐ Others ☒
01025	Sigma Boatmax	Blue	Self polishing type	1317-39-1 330-54-1	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2005/09/01 2026/06/15	Japan ☒ Others ☐
01026	Sigma Boatmax	Red, Black	Self polishing type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2005/09/01 2026/06/15	Japan ☒ Others ☐
01727	Sigma EcoFleet 270	Brown, Red Brown	Self polishing type	1317-39-1	Cuprous oxide		2019/08/09 2028/06/05	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 ☒
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	Japan ☒ Others ☐

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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 as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: PPG PMC JAPAN CO., LTD.

*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 Expiry	Manufactured in
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 2028/06/05	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 2028/06/05	Japan ☐ Others ☒
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 ☒
00076	Sigma TAIKAI	Red	Self polishing type	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2004/06/21 2027/12/17	Japan ☒ Others ☐
01747	Sigmaglide 1290	Redbrown, Dark Blue, Black	Biocide-free silicone type				2020/07/29 2026/06/15	Japan ☐ Others ☒
01841	Sigmaglide 2390	Redbrown, blue, black, grey, white	Biocide-free silicone type				2023/10/27 2026/10/26	Japan ☐ Others ☒
00453	Sigmaglide 890	Clear, Redbrown, Blue, Black, Red	Biocide-free silicone type	-	-		2005/02/17 2025/10/20	Japan ☐ Others ☒
01510	Sigmaglide 990	Dark Red, Dark Blue	Biocide-free silicone type	-	-		2011/12/07 2026/10/26	Japan ☐ Others ☒

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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 as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: PPG PMC JAPAN CO., LTD.

*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	
01842	Sigmarine 530	Redbrown, Brown, Black, Blue, Spruce Green	Self polishing type	1317-39-1	Cuprous oxide		2023/10/27	Japan ☐
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2026/10/26	Others ☒

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This list was updated as of 2025/08/22



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

(2021 amendment)

Name of Manufacturer: PT. Nipsea Paint and Chemicals

JI Ancol Barat I/A5/C No. 12, Jakarta 14430, Indonesia

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

*Registered Sytems Listed in alphabetical Order.

2 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
01850	BIOFLEX 800	Red Brown (IDN) D, Dark Brown (IDN) D, Brown (IDN) D	Controlled Depletion Polymer	1317-39-1	Cuprous oxide		2024/02/16	Japan ☐
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2027/02/15	Others ☒
01849	ECOLOFLEX SPC200	Light Brown (IDN) K, Dark Brown (IDN) K	Self polishing type	1317-39-1	Cuprous oxide		2024/02/16	Japan ☐
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2027/02/15	Others ☒

[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 2025/08/22



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

(2021 amendment)

Name of Manufacturer: WAKO CO.,LTD.

2-1-13 Honkawa-cho, Naka-ku, Hiroshima-shi, HIROSHIMA

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

*Registered Sytems Listed in alphabetical Order.

5 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
01525	ECO AF-E	Red, Light Red, Brown Red	Effluent Control Antifouling Paint	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2012/08/03 2027/06/21	Japan ☐ Others ☒
01639	ECO AF-K	Blue 1	Effluent Control Antifouling Paint	1317-39-1 330-54-1 64359-81-5	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2016/04/22 2027/12/17	Japan ☐ Others ☒
01524	ECO AF-S	Light Red, Brown Red	Effluent Control Antifouling Paint	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2012/08/03 2027/06/21	Japan ☐ Others ☒
01528	ECO AF-Z	Red	Effluent Control Antifouling Paint	330-54-1 971-66-4	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea Pyridine-triphenylborane		2012/06/01 2027/06/21	Japan ☐ Others ☒
01529	ECO AF-Z	Blue	Effluent Control Antifouling Paint	330-54-1 971-66-4	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea Pyridine-triphenylborane		2012/06/01 2027/06/21	Japan ☐ Others ☒

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