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

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

\*Registered Sytems Listed in alphabetical Order.

7F, Kudan First Place, 4-1-28, Kudan-kita, Chiyoda-ku, TOKYO

6 products registered as of 2018/06/15

Reg.No. Name of anti-fouling syste	m Colour(s) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration Expiry	Manufactured in
00448 Intersleek 757	BXA752/758/759- Blue, BXA755/758/759-	Foul Release Coating	_	-		2005/05/06 2021/06/14	Japan ☐ Others ✔
	Black, BXA757/758/759- Grey, BXA756/758/759-Red	1					
White, FXA962/982/ Blue,	•	Foul Release Coating	-	-		2007/09/21 2018/12/17	Japan ☐ Others ✔
		i					
00446 Intersmooth 365 SPC	BEA363-Dark Brown,	, TBT Free Self Polishing Copolymer	1317-39-1	Cuprous oxide		2005/05/06	Japan 🔲
	BEA364-Dark Red, BEA365-Mid Brown		13463-41-7	Zinc-2-pyridinethiol-1-oxide		2018/02/19	Others 🗹
01383 Intersmooth 7460HS SPC	BEA754-Brown,	TBT Free Self Polishing	1317-39-1	Cuprous oxide		2009/07/24	Japan
	BEA757-Red	Copolymer	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,5	S)-	2018/12/17	Others 🗸
01384 Intersmooth 7465HS SPC	BEA774-Brown,	TBT Free Self Polishing	1317-39-1	Cuprous oxide		2009/07/24	Japan 🗌
	BEA777-Red	Copolymer	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,5	S)-	2018/12/17	Others 🗹
01482 Interspeed 6400	BQA644-Red,	Organotin-free conventional	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2011/03/24	Japan 🗌
·	BQA648-Brown		1317-39-1	Cuprous oxide		2021/06/14	Others 🗸

Name of Manufacturer: BASSERU CHEMICAL CO.,LTD.

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

\*Registered Sytems Listed in alphabetical Order.

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

6 products registered as of 2018/06/15

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
00439 GINNOUMI	Red	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2005/03/11 2020/02/24	Japan 🗹 Others 🗌
00433 HR AF	Red	Organotin-free conventional type	1317-39-1	Cuprous oxide		2005/03/11 2020/02/24	Japan 🗹 Others
00435 HR AF SC	Red	Organotin-free ablative type	1317-39-1	Cuprous oxide		2005/03/11	Japan 🗹
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2020/02/24	Others 🗀
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
00436 HR AF SP	Redbrown	Organotin-free self	1317-39-1	Cuprous oxide	2005/03/1 2020/02/2	2005/03/11	Japan 🗹
		polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2020/02/24	Others
00440 SEASTORY MARINECHAN	Red, Blue	Organotin-free self	1317-39-1	Cuprous oxide		2005/03/11	Japan 🗹
		polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato C	O,S)- 2020/02/	2020/02/24	Others
00441 SEASTORY SAM	Red, Blue, Black	Organotin-free self	1317-39-1	Cuprous oxide		2005/03/11	Japan 🗹
		polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato C	O,S)-	2020/02/24	Others

Name of Manufacturer: CHUGOKU MARINE PAINTS, LTD.

Tokyo Club Building, 3-2-6, Kasumigaseki, Chiyoda-ku, TOKYO

85 products registered as of 2018/06/15

00204 DSP K 5011 Anti-Fouling Paint

For Ship's Bottom

Chlorinated Rubber Resin Base

Brown

**Registration Manufactured** Reg.No. Name of anti-fouling system Colour(s) Type of anti-fouling system CAS No. Chemical name (IUPAC) Dates of: Expiry in 2012/01/27 Japan 🗹 01523 APPARE Blue, Red, Light Red, Organotin-free self 1317-39-1 Cuprous oxide Others \_\_ Black 2020/11/01 polishing type 14915-37-8 Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-2004/05/21 Japan 00264 BISCON AF Red Brown Organotin free 1317-39-1 Cuprous oxide 2018/12/17 Others conventional type 2017/08/25 Japan 01675 CMP BIOCLEAN FLEX Red Brown Foul Release Coating 13463-41-7 Zinc-2-pyridinethiol-1-oxide Others 2020/08/24 14915-37-8 Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-2007/05/28 Japan 🗸 01211 CMP BIOCLEAN HB Light Grey, Red Biocide-free silicon type 2018/10/15 Others Brown, Black 2013/12/03 Japan 01571 CMP BIOCLEAN MARKING Biocide-free silicon type Black Others 2019/10/14 2014/02/14 Japan 01577 CMP BIOCLEAN PLUS Black Foul Release Coating 14915-37-8 Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-2020/06/15 Others 🗸 2016/08/26 Japan 01643 CMP BIOCLEAN PLUS Red Brown S Foul Relase Coatings 13463-41-7 Zinc-2-pyridinethiol-1-oxide 2019/08/26 Others 🗸 14915-37-8 Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-Japan 🗸 2007/05/28 01213 CMP BIOCLEAN R Light Grey, Red Biocide-free silicon type Others 2019/10/14 Brown 2017/11/02 Japan 01678 CMP BIOCLEAN R PLUS Red Brown Foul Release Coating Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-14915-37-8 2020/11/01 Others 2011/02/04 Japan 01484 CMP BIOCLEAN RS Black Biocide-free silicon type 2019/10/14 Others 2016/08/26 Japan 🗹 01646 CMP BIOCLEAN UNDERCOAT Plum S Foul Relase Coatings 13463-41-7 Zinc-2-pyridinethiol-1-oxide 2019/08/26 Others 🗸 **PLUS** Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-14915-37-8 2004/05/21 Japan 00205 DSP K 5011 Anti-Fouling Paint Black Organotin free 1317-39-1 Cuprous oxide Chlorinated Rubber Resin Base 2018/12/17 Others \_\_\_ conventional type For Ship's Boot Topping

1317-39-1

Cuprous oxide

Organotin free

conventional type

2004/03/18

2018/12/17

Japan

Others \_\_

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

\*Registered Sytems Listed in alphabetical Order.

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) Ty	pe of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration Expiry	Manufactured in
00258 Long Life Anti-Fouling For Sub	Black	Organotin free	1317-39-1	Cuprous oxide		2004/05/21	Japan 🗸
Marine		conventional type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2018/12/17	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01365 MARINE STAR 30G	Green I, Blue I, Red Brown I, Silver White I, Red I	Organotin-free self	1317-39-1	Cuprous oxide		2009/04/03	Japan 🗹
		polishing type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2019/12/07	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01597 MARINE STAR A	White I, Blue I, Red	Oranotin-free self	1111-67-7	Cuprous Thiocyanate		2015/02/20	Japan 🗹
	Brown I, Green I,	polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2021/02/15	Others 🗌
	Red I, Black I		64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01519 NEW KAIO	Red, Light Red, Blue	Organotin-free self	1317-39-1	Cuprous oxide		2012/01/27 2020/11/01	Japan 🗹
	-	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S	S)-		Others
01522 NEW KAIO 200	Red, Light Red, Red		1317-39-1	Cuprous oxide		2012/01/27	Japan 🗸
	Brown, Blue		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S	S)-	2020/11/01	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01671 NEW KAIO 300	Red, Blue, Black	Organotin-free self polishing type	1317-39-1	Cuprous oxide		2017/06/16	Japan 🗹
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S	S)-	2020/06/15	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
00277 NEW KAMOME	Blue, Red	Organotin free conventional type	1317-39-1	Cuprous oxide		2004/05/21	Japan 🗸
	,					2019/12/07	Others 🗌
01592 NEW MARINE GOLD	White III, Blue III,	Organotin-free self	1111-67-7	Cuprous Thiocyanate		2014/10/29	Japan 🗸
	Red Brown III, Green III, Red III, Black III	polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2020/11/01	Others
	III, Red III, Diack III		64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
00287 NEW MARINE GOLD DX	White	Organotin-free self	971-66-4	Pyridine-triphenylborane		2004/06/21	Japan 🗹
		polishing type				2018/10/15	Others 🗌
01368 NEW MARINE GOLD DX	Blue II, Red Brown II,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2009/04/03	Japan 🗹
	Green II, Red II, Black II	polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2019/12/07	Others
	Diack II		971-66-4	Pyridine-triphenylborane			
01564 NEW MARINE GOLD DX ALPHA	Red, Blue, Black	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-pyrrole-3-carbonitrile	-1H-	2013/08/22 2019/12/07	Japan 🗹 Others
			13463-41-7	Zinc-2-pyridinethiol-1-oxide			

[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 on 2018/06/15 Page 2/ CHUGOKU MARINE PAINTS, LTD.

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) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates o	f: Registration Expiry	Manufactured in
00288 NEW MARINE GOLD DX CLEAR	Clear	Organotin-free self polishing type	_	-	2004/05/21 2018/10/15	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 2021/02/15	Japan <b>⊻</b> Others □
01620 SCREW AF COASTAL	Yellow Brown	Foul Release Coating	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2015/08/21 2021/06/14	Japan 🗹 Others
01475 SEA GRAND PRIX 500	Light Red, Red	Organotin-free self polishing type	1317-39-1 13463-41-7	Cuprous oxide Zinc-2-pyridinethiol-1-oxide	2010/08/06 2019/04/22	Japan 🗹 Others 🗌
00206 SEA GRANDPRIX 1000	Purple, Dark Red, Red, Light Red, Blue	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide  Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2004/06/21 2020/06/15	Japan <b>⊻</b> Others <b>⊻</b>
01463 SEA GRANDPRIX 1000 L	Light Brown, Brown, Blue, Brown K, Light Brown K, Brown H, Light Brown H	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide  Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2010/06/04 2020/02/24	Japan <b>⊻</b> Others <b>⊻</b>
01255 SEA GRANDPRIX 200 R	Red, Light Red, Ogi Colour	Organotin-free 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 2021/06/14	Japan 🗹 Others
00274 SEA GRANDPRIX 2000	Light Red, Red, Purple, Blue, Light Red K, Red K, Blue K, Black K,Red H, Light Red H, Blue H	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2004/05/21 2020/02/24	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		1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2015/06/19 2020/02/24	Japan ✔ Others ✔
01254 SEA GRANDPRIX 2000 S	Light Red, Red	Organotin-free 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 2019/08/26	Japan <b>⊻</b> 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 on 2018/06/15 Page 3/ CHUGOKU MARINE PAINTS, LTD.

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) Ty	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates of	f: Registration Expiry	Manufactured in
01658 SEA GRANDPRIX 220 HS	Brown R, Light	Organotin-free self	1317-39-1	Cuprous oxide	2017/02/24	Japan 🗹
	Brown R	polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2020/02/24	Others 🗹
01432 SEA GRANDPRIX 220 HS	Brown, Light Brown, Brown S, Light Brown S	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2009/11/20 2020/06/15	Japan <b>⊻</b> Others <b>⊻</b>
01319 SEA GRANDPRIX 330 HS	Brown, Light brown	Organotin-free self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2008/11/27 2021/06/14	Japan <b>⊻</b> Others <b>⊻</b>
00209 SEA GRANDPRIX 500	Red, Light Red, Purple	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2004/05/21 2018/10/15	Japan <b>⊻</b> Others <b>⊻</b>
00267 SEA GRANDPRIX 500	Green	Organotin-free 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	2004/05/21 2018/10/15	Japan 🗹 Others 🗌
01320 SEA GRANDPRIX 500 HS	Red, Light Red, Purple, Red N, Light Red N	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2008/11/27 2018/12/17	Japan 🗹 Others 🗹
01321 SEA GRANDPRIX 500 M HS	Red, Light Red, Red K, Light Red K, Light Red N, Red N	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2008/11/27 2020/06/15	Japan <b>⊻</b> Others <b>⊻</b>
01329 SEA GRANDPRIX 660 HS	Brown, Light Brown, Brown S, Light Brown S, Brown R, Light Brown R	Organotin-free self polishing type	1317–39–1 64359–81–5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2009/01/20 2021/06/14	Japan <b>⊻</b> Others <b>⊻</b>
01702 SEA GRANDPRIX 770 HS	Brown, Light Brown	Organotin-free self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2018/06/15 2021/06/14	Japan <b>⊻</b> Others <b>⊻</b>
01625 SEA GRANDPRIX 880 HS	Light Brown, Brown	Organotin-free self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2015/12/18 2018/12/17	Japan <b>⊻</b> Others <b>⊻</b>
01446 SEA GRANDPRIX 900 HS	Red, Light Red, Purple, Red N, Light Red N	Organotin-free self polishing type	1317-39-1 14915-37-8 731-27-1	Cuprous oxide  Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-  Methanesulfenamide, 1,1-dichloro-N-((dimethylamino) sulfonyl)-1-fluoro-N-(4-methylphenyl)	2010/01/22 2019/02/17	Japan ✔ Others ✔
01699 SEA GRANDPRIX 900 L	Brown, Light Brown	Organotin-free self polishing type	1317-39-1 64359-81-5	Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2018/06/15 2021/06/14	Japan <b>⊻</b> Others <b>⊻</b>

[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 on 2018/06/15 Page 4/ CHUGOKU MARINE PAINTS, LTD.

Name of Manufacturer: CHUGOKU MARINE PAINTS, LTD.

Reg.No. Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates of	f: Registration Expiry	Manufactured in
01698 SEA GRANDPRIX 950 L	Brown, Light Brown	Organotin-free self	1317-39-1	Cuprous oxide	2018/06/15	Japan 🗸
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/06/14	Others 🗹
01154 SEA GRANDPRIX CF 10 L M EU	Red K, Light Red K	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2007/01/25	Japan 🗹
	-	polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2021/02/15	Others 🗹
01155 SEA GRANDPRIX CF SUPER	Light Red, Red	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2007/01/25	Japan 🗹
		polishing type	971-66-4	Pyridine-triphenylborane	2018/10/15	Others 🗸
00210 SEA GRANDPRIX CF-10	Red, Light Red,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2004/05/21	Japan 🗹
	Purple	polishing type	971-66-4	Pyridine-triphenylborane	2019/02/17	Others 🗹
01480 SEA GRANDPRIX CF-10	K-LINE Grey	Organotin-free self	971-66-4	Pyridine-triphenylborane	2010/12/17	Japan 🗹
		polishing type			2019/10/14	Others 🗹
	Purple, Light Red,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2007/01/25	Japan 🗹
	Red	polishing type	971-66-4	Pyridine-triphenylborane	2018/10/15	Others 🗹
01239 SEA GRANDPRIX CF-10 L A Light Red, Red	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2007/09/21	Japan 🗹	
		polishing type	971-66-4	Pyridine-triphenylborane	2019/04/22	Others 🗹
00266 SEA GRANDPRIX FBX KAI	White	Organotin-free self	971-66-4	Pyridine-triphenylborane	2004/05/21	Japan 🗸
		polishing type			2018/10/15	Others
01590 SEA GRANDPRIX FBX KAI	Blue I 737	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2014/06/13 2020/04/13	Japan <b>⊻</b> Others □
		polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2020/04/13	Others 🗀
			731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethylamino) sulfonyl)-1-fluoro-N-(4-methylphenyl)		
			971-66-4	Pyridine-triphenylborane		
00291 SEA GRANDPRIX FRP	Light Red	Organotin-free self	1317-39-1	Cuprous oxide	2004/05/21	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2018/10/15	Others 🗌
01550 SEA GRANDPRIX MARK II	Brown, Light Brown		1317-39-1	Cuprous oxide	2013/02/15	Japan 🗸
	Brown K, Light Brown K	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/06/15	Others 🗹
01552 SEA PREMIER 1000	Red, Light Red, Blu	e Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2013/06/18 2019/04/22	Japan 🗹 Others 🗌
			13463-41-7	Zinc-2-pyridinethiol-1-oxide		

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) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates of:	Registration Expiry	Manufactured in
01417 SEA PREMIER 200	Red, Light Red	Organotin-free self	1317-39-1	Cuprous oxide	2009/07/24	Japan 🗸
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/06/14	Others
_			28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine		
01456 SEA PREMIER 450	Red, Light Red	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2010/03/19	Japan 🗹
		polishing type	971-66-4	Pyridine-triphenylborane	2018/12/17	Others
01449 SEA PREMIER 800	Red, Light Red,	Organotin-free self	1317-39-1	Cuprous oxide	2010/03/19	Japan 🗹
	Purple, Red N, Light Red N, Blue, Red H,	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others 🗔
	Light Red H, Blue H					
	Light Red, Red,	Organotin-free self	1317-39-1	Cuprous oxide	2015/06/19	Japan 🗹
	Purple, Blue, Light	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/02/24	Others
	Red N, Red N, Red H, Light Red H, Blue H					
01462 SEA PREMIER 850	Red, Light Red	Organotin-free self	1317-39-1	Cuprous oxide	2010/06/04	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others 🗆
01674 SEA PREMIER CF Z	Light Red, Red	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2017/08/25 2020/08/24	Japan 🗹 Others
			13463-41-7	Zinc-2-pyridinethiol-1-oxide		
01464 SEAFLO NEO	Red, Light Red, Red	Organotin-free self	1317-39-1	Cuprous oxide	2010/06/04	Japan 🗹
_	N, Light Red N	polishing type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine	2019/10/14	Others 🗹
01628 SEAFLO NEO	Red N2, Light Red N	•	1317-39-1	Cuprous oxide	2016/02/18	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others 🗹
01591 SEAFLO NEO 500 Z	Red, Light Red	Organotin-free self	1317-39-1	Cuprous oxide	2014/08/22	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/11/01	Others 🗸
01626 SEAFLO NEO CF Z	Red, Light Red	Organotin-free self	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-	2015/12/18	Japan 🗹
	, 0	polishing type		pyrrole-3-carbonitrile	2018/12/17	Others 🗸
			13463-41-7	Zinc-2-pyridinethiol-1-oxide	0011/00/01	
01488 SEAFLO NEO FLAT	Light Red, Red	nolishing type	1317-39-1	Cuprous oxide	2011/03/24 2020/02/24	Japan <b>⊻</b> Others <b>⊻</b>
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/ 02/ 24	- Juleis 🖭

[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 on 2018/06/15 Page 6/ CHUGOKU MARINE PAINTS, LTD.

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) Ty	pe of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates of	Registration Expiry	Manufactured in
01506 SEAFLO NEO SL	Brown, Light Brown,	Organotin-free self	1317-39-1	Cuprous oxide	2011/10/14	Japan 🗹
	Brown K, Light Brown K, Blue, Grey, Brown H, Light	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others 🗹
01579 SEAFLO NEO SL Z	Brown H Brown, Light Brown,	Organotin-free self	1317-39-1	Cuprous oxide	2014/02/14	Japan 🗸
010/13 01/11 10 1410 01 2	Brown K, Light Brown K, Brown H, Light Brown H	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others 🗹
01561 SEAFLO NEO Z	Red, Light Red, Red	Organotin-free self	1317-39-1	Cuprous oxide	2013/08/22	Japan 🗹
	N, Light Red N	polishing type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine	2019/10/14	Others 🗹
01629 SEAFLO NEO Z	Red N2, Light Red N2	naliahina tuna	1317-39-1	Cuprous oxide	2016/02/18	Japan 🗹
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others 🗹
01551 SEAFLO NEO-S	Red, Light Red, Blue,	Organotin-free self	1317-39-1	Cuprous oxide	2013/02/15	Japan 🗹
	Red N, Brown	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/11/01	Others 🗹
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
01580 SEAFLO NEO-S Z	Red, Light Red, Red N, Brown	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2014/02/14	Japan 🗹
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/11/01	Others 🗹
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
01360 SEAJET 033	Shark White I, Blue I,	Organotin-free self	1317-39-1	Cuprous oxide	2009/04/03	Japan 🗹
	Red I, Black I	polishing type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2021/02/15	Others 🗔
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
01659 SEAJET 034	VIVID WHITE I	Organotin-free self polishing type	971-66-4	Pyridine-triphenylborane	2017/02/24 2020/02/24	Japan <b>⊻</b> Others □
01660 SEAJET 034	Blue, Red, VIVID	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2017/02/24	Japan 🗹
	BLACK I	polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2020/02/24	Others 🗌
			971-66-4	Pyridine-triphenylborane		
01565 SEAJET 037	White, Black	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2013/08/22 2019/06/17	Japan <b>⊻</b> Others □
			13463-41-7	Zinc-2-pyridinethiol-1-oxide		

[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.

Name of Manufacturer: CHUGOKU MARINE PAINTS, LTD.

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
01585 SEAJET 039	Ash Black, Ash Blue		1317-39-1	Cuprous oxide		2014/04/11	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato C	),S)-	2020/02/24	Others 🗀
01586 SEAJET 039	Ash Grey	Organotin-free self	1317-39-1	Cuprous oxide		2014/04/11	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato C	),S)-	2020/02/24	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01487 SEATENDER 20	Light Brown, Brown, Black, Blue	n, Organotin-free self polishing type	1317-39-1	Cuprous oxide		2011/03/24	Japan 🗹
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2020/04/13	Others 🗀
01486 SEATENDER 7	Red Brown	Organotin-free	1317-39-1	Cuprous oxide		2011/03/24	Japan 🗹
		conventional type				2019/12/07	Others 🗆
01578 TFA-30	Silver white, Black,	Organotin-free self	1317-39-1	Cuprous oxide		2014/02/14	Japan ✔ Others ✔
	Red, Blue	polishing type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2019/12/07	Otners 💌
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
00263 VINYL AF	Red Brown	Organotin free	1317-39-1	Cuprous oxide		2004/05/21	Japan 🗸
		conventional type				2018/12/17	Others

Name of Manufacturer: HEMPEL A/S

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

\*Registered Sytems Listed in alphabetical Order.

Lundtoftevej 150, DK-2800 KGS.Lyngby, Denmark

28 products registered as of 2018/06/15

Reg.No. Name of anti-fouling system	Colour(s) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Da	ates of:	Registration I	Manufactured in
01581 HEMPAGUARD X5 89700	Red	Organoti-free hybrid type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	,-	2014/04/11 2020/02/24	Japan ☐ Others ✔
01582 HEMPAGUARD X7 89900	Red, Black	Organoti-free hybrid type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	,— -	2014/04/11 2020/02/24	Japan ☐ Others ✔
01683 HEMPAGUARD X7 ONE 89930	Black, Red	Organotin-free hybrid type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/12/04 2020/12/03	Japan ☐ Others ✔
01627 HEMPASIL X3+ 87500	Grey (15150), Black (19990), Blue (30170), Green (47560), Red (59151)	Biocide free, fouling release type	-	-		2016/04/22 2019/04/22	Japan ☐ Others ✔
01611 HEMPEL'S ANTIFOULING OLYMPIC FB+ 7295B	51110 (red)	Organotin-free self polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate)  Cuprous oxide		2015/06/19 2021/02/15	Japan ☐ Others ✔
01594 HEMPEL'S ANTIFOULING BASIC 71950	51110 (red), 60600 (brown)	Organotin-free self polishing type	12122-67-7 1317-39-1	Zinc ethylenebis (dithiocarbamate) Cuprous oxide		2015/02/20 2021/02/15	Japan ☐ Others ✔
01689 Hempel's Antifouling Dynamic 9000 79902	Red, Brown	Organotin-free self- polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-		2018/02/16 2021/02/15	Japan ☐ Others ✔
01690 Hempel's Antifouling Dynamic 9000 79952	Red, Brown	Organotin-free self- polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/02/16 2021/02/15	Japan ☐ Others ✔
01686 Hempel's Antifouling Globic 6000 75952	Black, Red, Brown	Organotin-free self- polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-		2018/02/16 2021/02/15	Japan ☐ Others ✔
01547 HEMPEL'S ANTIFOULING GLOBIC 6000, 75950	Brown 60600, Red 51110	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-		2013/02/15 2019/02/17	Japan ☐ Others ✔
01595 HEMPEL'S ANTIFOULING GLOBIC 8000 78550	51110 (red), 60600 (brown)	Organotin-free, hydrolysing SPC	12122-67-7 1317-39-1 14915-37-8	Zinc ethylenebis (dithiocarbamate)  Cuprous oxide  Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2	2015/02/20 2021/02/15	Japan Others <b>✓</b>
01695 Hempel's Antifouling Globic 8000 78552	Red, Brown	Organotin-free hydrolysing SPC type	12122-67-7 1317-39-1 14915-37-8	Zinc ethylenebis (dithiocarbamate)  Cuprous oxide  Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2	2018/02/16 2021/02/15	Japan ☐ Others ✔

[NOTE] Registered products are recognised to be compliant with IMO "International Convention on the Control of Harmful Anti-fouling Systems on Ships". Other properties of registered products, such as Anti-fouling performance or safety properties, are not recognized.

This list was updated on 2018/06/15

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

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) Ty	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates	s of: Registration Expiry	Manufactured in
01687 Hempel's Antifouling Globic	Black, Blue, Red,	Organotin-free self-	1317-39-1	Cuprous oxide	2018/02/16	Japan
9000 78902	Brown	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/02/15	Others 🗹
01688 Hempel's Antifouling Globic	Black, Blue, Red,	Organotin-free self-	1317-39-1	Cuprous oxide	2018/02/16	Japan
9000 78952	Brown	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/02/15	Others 🗹
01548 HEMPEL'S ANTIFOULING	Black 19990, Blue	Organotin-free self	1317-39-1	Cuprous oxide	2013/02/15	Japan
GLOBIC 9000, 78900	30170, Brown 60600, Red 51110	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others 🗸
01549 HEMPEL'S ANTIFOULING	Black 19990, Blue	Organotin-free self	1317-39-1	Cuprous oxide	2013/02/15	Japan
GLOBIC 9000, 78950	30170, Brown 60600, Red 51110	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others 🗹
01672 HEMPEL'S ANTIFOULING	51110 (red), 60600	Organotin-free,	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2017/06/16	Japan 🗌
GLOBIC 9500 M 78954 (brown)	(brown)		1317-39-1	Cuprous oxide	2020/06/15	Others 🗹
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
01682 Hempel's Antifouling Globic	Red, Brown	Organotin-free, hydrolysing SPC	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2018/02/16	Japan 🗌
9500N 7895N			1317-39-1	Cuprous oxide	2021/02/15	Others 🗸
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
01691 Hempel's Antifouling Oceanic	Red, Brown	Organotin-free self-	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2018/02/16	Japan 🗌
1000 71952		polishing type	1317-39-1	Cuprous oxide	2021/02/15	Others 🗹
01692 Hempel's Antifouling Oceanic	Black, Blue, Red,	Organotin-free self-	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2018/02/16	Japan 🗌
2000 72902	Brown	polishing type	1317-39-1	Cuprous oxide	2021/02/15	Others 🗸
01693 Hempel's Antifouling Oceanic	Black, Blue, Red,	Organotin-free self-	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2018/02/16	Japan 🗹
2000 72952	Brown	polishing type	1317-39-1	Cuprous oxide	2021/02/15	Others
01694 Hempel's Antifouling Oceanic	Red, Brown	Organotin-free self-	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2018/02/16	Japan 🗌
2000 FB 7295F		polishing type	1317-39-1	Cuprous oxide	2021/02/15	Others 🗸
01684 Hempel's Antifouling Oceanic	Red, Brown	Organotin-free self-	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2018/02/16	Japan
5000 74902		polishing type	1317-39-1	Cuprous oxide	2021/02/15	Others 🗸
01685 Hempel's Antifouling Oceanic	Red, Brown	Organotin-free self-	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2018/02/16	Japan
5000 74952		polishing type	1317-39-1	Cuprous oxide	2021/02/15	Others 🗸

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

Name of Manufacturer: HEMPEL A/S

Reg.No. Name of anti-fouling system	Colour(s) Ty	pe of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration Expiry	Manufactured in
OCEANIC+, 73900	Black 19990, Blue	Organotin-free self 0, polishing type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2013/02/15 2019/02/17	Japan ☐ Others ✔
	30170, Brown 60600, Green 42650, Red	polishing type	1317-39-1	Cuprous oxide		2019/02/17	Others 🖳
	51110		28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropyltriazine	amino-s-		
01546 HEMPEL'S ANTIFOULING	Black 19990, Blue	Organotin-free self ), polishing type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2013/02/15	Japan
OCEANIC+, 73950	30170, Brown 60600, Green 42650, Red 51110		1317-39-1	Cuprous oxide		2019/02/17	Others 🗸
			28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropyltriazine	amino-s-		
01543 HEMPEL'S ANTIFOULING	Black 19990, Blue	Organotin-free self	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2013/02/15	Japan 🗌
•	30170, Brown 60600, Red 51110	polishing type	1317-39-1	Cuprous oxide		2019/02/17	Others 🗹
01544 HEMPEL'S ANTIFOULING OLYMPIC+, 72950	Black 19990, Blue 30170, Brown 60600, Red 51110	Organotin-free self 0, polishing type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2013/02/15	Japan 🗌
			1317-39-1	Cuprous oxide		2019/02/17	Others 🗹

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.

#### 17 products registered as of 2018/06/15

Reg.No. Name of anti-fouling system	Colour(s) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates o	f: Registration Expiry	Manufactured in
00337 CLEANCOAT	Reddish Brown, Red,		1317-39-1	Cuprous oxide	2004/10/26	Japan 🗸
	Blue	polishing hydration type	1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile	2019/02/17	Others
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		
00338 CLEANCOAT	White	Organotin-free self-	1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile	2004/10/26	Japan 🗹
		polishing hydration type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2019/02/17	Others 🗌
00340 CLEANCOAT A/F HP	Red, Blue, Brown	Organotin-free self-	1317-39-1	Cuprous oxide	2004/10/26	Japan 🗹
		polishing hydration type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2019/02/17	Others
00339 CLEANCOAT SUPER A/F	Light Brown	9	1317-39-1	Cuprous oxide	2004/10/26	Japan 🗹
		polishing hydration type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others
	Red, Blue, Green,	Organotin-free self-	13108-52-6	2,3,5,6-Tetrachloro-4-(methylsulphonyl)pyridine	2005/02/17	Japan 🗹
	Black	polishing hydrolysys type	1317-39-1	Cuprous oxide	2019/02/17	Others
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		
00350 NEWSEARON	White	Organotin-free self- polishing hydrolysys type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2004/12/22	Japan 🗹
			28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine	2019/02/17	Others
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		
00344 NEWSEARON 1000 A/F	Red, Brown	Organotin-free self-	1317-39-1	Cuprous oxide	2004/10/26	Japan 🗹
		polishing hydrolysys type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others 🗌
00345 NEWSEARON 2000 A/F	Red, Brown	Organotin-free self-	1317-39-1	Cuprous oxide	2004/10/26	Japan 🗹
		polishing hydrolysys type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others
00346 NEWSEARON 2000A A/F	Brown, Dark Brown	Organotin-free self-	1317-39-1	Cuprous oxide	2004/10/26	Japan 🗹
		polishing hydrolysys type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others
00347 NEWSEARON 3000 A/F	Red, Brown	Organotin-free self-	1317-39-1	Cuprous oxide	2004/10/26	Japan 🗹
		polishing hydrolysys type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	Others
00343 NEWSEARON F	Red	Organotin-free self-	1317-39-1	Cuprous oxide	2004/10/26	Japan 🗹
		polishing hydrolysys type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2019/02/17	Others
00349 NEWSEARON SEACHEST A/F	Red, Brown	Organotin-free self-	1317-39-1	Cuprous oxide	2004/10/26	Japan 🗹
		polishing hydrolysys type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/02/17	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.

<sup>\*</sup>Product name case is typed as on the application form.

Name of Manufacturer: ISHIKAWA PAINT CO.,LTD.

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	Organotin-free self- polishing type	1317-39-1	Cuprous oxide		2004/10/26 2019/02/17	Japan <b>⊻</b> Others □
00356 RABACOAT A/F C	Reddish brown	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/10/26 2019/02/17	Japan <b>⊻</b> Others □
00353 VINIHARD A/F	Reddish brown	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/10/26 2019/02/17	Japan ✔ Others
00354 VINIHARD A/F #1000	Reddish brown	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/10/26 2019/02/17	Japan ✔ Others
00352 VINYCRON A/F	Reddish brown	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/10/26 2019/02/17	Japan 🗹 Others

Name of Manufacturer: KANAE PAINT CO.,LTD.

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

1-0-13, Hanateri-Higashi, Tsurumi-ku, Osaka-shi, OSA

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

\*Registered Sytems Listed in alphabetical Order.

20 products registered as of 2018/06/15

Reg.No. Name of anti-fouling system	Colour(s) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Date	ites of:	Registration   Expiry	in
00062 CLEAN TOP DELUXE	Clear	Biocide-free silicon type	_	-		2004/03/18 2019/02/17	Japan 🗹 Others 🗌
01207 KANAE PORT A/F #7000AL KAI	Red, Red Brown, Brown, Light Brown, Blue, 808Blue	Organotin-free self polishing type	13463-41-7 971-66-4	Zinc-2-pyridinethiol-1-oxide Pyridine-triphenylborane		2007/05/28 2019/02/17	Japan 🗹 Others 🗌
01574 KANAE PORT A/F #5000msKAI	Red N, Brown N	Organotin-free 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 2020/02/24	Japan <b>⊻</b> Others □
01573 KANAE PORT A/F #7000B KAI	Red N, Brown N, 808Blue N	Organotin-free 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 2020/02/24	Japan 🗹 Others 🗌
00005 KANAE PORT A/F CLEAN #1000	Brown	Organotin-free ablative type	1317-39-1 330-54-1	Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2004/03/18 2019/02/17	Japan 🗹 Others
00010 KANAE PORT A/F CLEAN #2000 HD	Redbrown, Brown	Organotin-free ablative type	1317-39-1 28159-98-0 330-54-1	Cuprous oxide  2-methylthio-4-tert-butylamino-6-cyclopropylamin triazine  3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	no-s-	2004/03/18 2019/02/17	Japan 🗹 Others 🗌
00013 KANAE PORT A/F CLEAN #4000	Redbrown, Brown	Organotin-free ablative type	1317-39-1 28159-98-0 330-54-1	Cuprous oxide  2-methylthio-4-tert-butylamino-6-cyclopropylamin triazine  3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	no-s-	2004/03/18 2019/02/17	Japan 🗹 Others 🗌
00016 KANAE PORT A/F CLEAN #5000 M	White	Organotin-free self polishing type	28159-98-0 971-66-4	2-methylthio-4-tert-butylamino-6-cyclopropylamin triazine Pyridine-triphenylborane	no-s-	2004/03/18 2019/02/17	Japan 🗹 Others 🗌
00014 KANAE PORT A/F CLEAN #5000 N-10	Red,Brown	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide  Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	-	2004/03/18 2019/02/17	Japan 🗹 Others 🗌
01603 KNAE PORT G	Red N, Blue N, Black N	Organotin-free 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	-	2015/04/17 2021/06/14	Japan 🗸 Others 🗌

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

This list was updated on 2018/06/15 Page 1/ KANAE PAINT CO.,LTD.

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 Expiry	Manufactured in
00003 KR-A/F N	Brown, D Brown	Organotin-free conventional type	1317-39-1	Cuprous oxide	2004/03/18 2018/10/15	Japan 🗹 Others
00002 KR-A/F NB BROWN	Brown	Organotin-free ablative	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
		type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2019/02/17	Others
00004 KT VINYL A/F D	Brown	Organotin-free conventional type	1317-39-1	Cuprous oxide	2004/03/18 2019/02/17	Japan 🗹 Others 🗌
01572 NEW TAIRYO	Red N, Brown N,	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2014/02/14	Japan 🗹
	Blue N		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others 🗌
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
00056 SEA HAWK	Green	polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2004/03/18	Japan 🗹
			137-30-4	Zinc dimethyl dithiocarbamate	2019/02/17	Others
			28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-triazine	s-	
			971-66-4	Pyridine-triphenylborane		
01028 SEA HAWK #1000 H	Red, Red Brown,	Organotin-free self n, polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2005/11/14	Japan 🗹
	Brown, Light Brown Blue, 808Blue		971-66-4	Pyridine-triphenylborane	2019/02/17	Others
00048 SUPER TAIRYO	Red, Brown, Blue, Green, Black	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2004/03/18	Japan 🗹
			137-30-4	Zinc dimethyl dithiocarbamate	2019/02/17	Others 🗀
			28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-triazine	s-	
			971-66-4	Pyridine-triphenylborane		
00050 SUPER TAIRYO B/T	White	Organotin-free self polishing type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-triazine	2004/03/18 2019/02/17	Japan <b>⊻</b> Others □
			971-66-4	Pyridine-triphenylborane		
01033 SUPER TAIRYO DX	Red, Brown, Blue,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2005/11/14	Japan 🗹
	Green, Black	polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2019/02/17	Others
			971-66-4	Pyridine-triphenylborane		
01195 SUPER TAIRYO No. 1	Red, Brown, Blue,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2007/05/28	Japan 🗹
	Green, Black	polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2019/02/17	Others 🗀
			971-66-4	Pyridine-triphenylborane		

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This list was updated on 2018/06/15 Page 2/ KANAE PAINT CO.,LTD.

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

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

54 products registered as of 2018/06/15

Reg.No. Name of anti-fouling system	Colour(s) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration Expiry	Manufactured in
00121 AF FOR SEA CHEST	Brown	Organotin-free self	1317-39-1	Cuprous oxide		2004/03/18	Japan 🗹
		polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato C	,S)-	2019/04/22	Others
01424 AF MX-2080	Light Brown, Brown	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2009/07/24	Japan 🗹
		polishing hydrolysis type				2021/06/14	Others
01314 CLEAR EXION	Clear	Organotin-free self polishing hydrolysis type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2008/12/15 2020/11/01	Japan <b>⊻</b> Others □
00123 C-RUBAN A/F	Brown		1017 00 1	2 1		2004/03/18	Japan 🗹
00123 C-ROBAN A/F	DIOWII	Organotin-free ablative type	1317-39-1	Cuprous oxide		2019/04/22	Others
00128 C-RUBAN A/F for SUBMARINE	Brown	Organotin-free ablative	1317-39-1	Cuprous oxide		2004/03/18	Japan 🗹
		type		•		2019/04/22	Others
00126 C-RUBAN A/F HP	Brown	Organotin-free ablative	1317-39-1	Cuprous oxide		2004/03/18	Japan 🗹
		type				2019/04/22	Others
00129 C-RUBAN B/T for SUBMARINE	Black	Organotin-free ablative	1317-39-1	Cuprous oxide		2004/03/18 2019/04/22	Japan <b>⊻</b> Others □
00157 NEWPLADOL for SUBMARINE	Black	type Organotin-free self	1017 00 1	2 1		2004/03/18	Japan 🗹
00137 NEWFLADOL IOI SOBINARINE	DIACK	polishing hydrolysis type	1317-39-1	Cuprous oxide	. 6)	2019/04/22	Others $\Box$
04070 NIKA OF A FOROSCO	David David Limbs David		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato C	1,5)-	2008/05/28	Japan 🗹
01279 NKM SEAFORCE30	Dark Red, Light Red	Organotin-free self polishing hydration type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2020/02/24	Others 🗌
			1317-39-1	Cuprous oxide		2006/04/25	Japan 🗹
01107 SEAFORCE 30	Light Red, Dark Red	Organotin-free self polishing hydration type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2006/04/25	Japan <b>⊻</b> Others <b>⊻</b>
			1317-39-1	Cuprous oxide		'	
01108 SEAFORCE 60	Light Red, Dark Red	Organotin-free self polishing hydration type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2006/04/25 2021/06/14	Japan ✔ Others ✔
		polishing hydration type	1317-39-1	Cuprous oxide		2021/00/14	Others 🗷
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato C	,S)-		
01109 SEAFORCE 90	Light Red, Dark Red,	Organotin-free self	1317-39-1	Cuprous oxide		2006/04/25	Japan 🗹
	Blue, Black, Green	polishing hydration type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato C	,S)-	2021/06/14	Others 🗹
00117 SEAQUEEN	Light Red, Dark Red	Red Organotin-free self polishing hydration type	1317-39-1	Cuprous oxide		2004/03/18	Japan 🗹
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato C	-(S,	2019/04/22	Others 🗹

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) Ty	pe of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates of	Registration Expiry	Manufactured in
01306 SHIN LLL No.100	Brown, Red, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2008/12/15	Japan 🗹
	Brown, Light Brown, Chocolat, Rouille,	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others
	Blue, Brown K					
01305 SHIN LLL No.100 for HIGH	Brown, Red, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2008/12/15	Japan 🗹
SPEED VESSEL	Brown, Light Brown	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/11/01	Others 🗀
01307 SHIN LLL No.300	Light Brown	Organotin-free self	1317-39-1	Cuprous oxide	2008/12/15	Japan 🗹
		polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/11/01	Others
01423 SHIN LLL P/B	Brown, Dark Brown,		1317-39-1	Cuprous oxide	2009/07/24	Japan 🗹
	Light Brown, Red	polishing hydrolysis Type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others
01311 TAKATA A/F for SUBMARINE	Black	Organotin-free ablative	1317-39-1	Cuprous oxide	2008/12/15	Japan 🗹
		type			2020/11/01	Others
01297 TAKATA QUANTUM MOL Green,	•	Organotin-free self	1317-39-1	Cuprous oxide	2008/12/15 2020/11/01	Japan 🗹 Others 🗌
-	Luminous Blue, Blue	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-		
01299 TAKATA QUANTUM 16 FOR COASTAL VESSEL	Brown, Red, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2008/12/15 2020/11/01	Japan 🗹 Others 🗌
COASTAL VESSEL	Brown, Light Brown	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		
01298 TAKATA QUANTUM 20 FOR	Brown, Red, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2008/12/15 2020/11/01	Japan <b>⊻</b> Others □
COASTAL VESSEL	Brown, Light Brown	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		
01425 TAKATA QUANTUM 2L	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2009/07/24 2021/06/14	Japan 🗹 Others 🗆
	Brown	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	Į.	
00401 TAKATA QUANTUM CLASSIC	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2004/12/22 2020/02/24	Japan ✔ Others
	Brown, Dark Red, Light Red, Blue	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Otners 🗀
00403 TAKATA QUANTUM FB	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2004/12/22	Japan 🗸
	Brown, Light Red, Dark Red	polishing hydrolysis type	1017 00 1	Capital Silas	2020/02/24	Others 🗌
01427 TAKATA QUANTUM FB(R)	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2009/07/24	Japan 🗹
	Brown, Light Red, Dark Red	polishing hydrolysis type			2020/02/24	Others 🗌
01275 TAKATA QUANTUM FB(S)	Light Brown, Dark Brown, Light Red, Dark Red	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide	2008/05/28 2020/02/24	Japan 🗹 Others 🗌

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This list was updated on 2018/06/15 Page 2/ KANSAI PAINT MARINE CO.,LTD.

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) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates of	Registration Expiry	Manufactured in
00146 TAKATA QUANTUM for	Brown, Red, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
COASTAL VESSEL	Brown, Light Brown, Blue	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others 🗔
01662 TAKATA QUANTUM for	Brown, Dark Brown,	Organotin-free self	1317-39-1	Cuprous oxide	2017/02/24	Japan 🗹
COASTAL VESSEL	Red, Black	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others
01300 TAKATA QUANTUM for	Brown, Red, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2008/12/15	Japan 🗹
COASTAL VESSEL SEAKING II	Brown, Light Brown	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/11/01	Others 🗀
00145 TAKATA QUANTUM for	Brown, Red, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
FISHING VESSEL	Brown	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/04/22	Others 🗀
00385 TAKATA QUANTUM LLL	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2004/12/22	Japan 🗹
	Brown, Brown, Dark	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others 🗹
01315 TAKATA QUANTUM LLL FB	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2008/12/15	Japan 🗹
	Brown, Light Red,	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/04/13	Others 🗆
	Dark Red, Brown, Light					
00143 TAKATA QUANTUM ND	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
	Brown	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2019/04/22	Others
00402 TAKATA QUANTUM PLUS	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2004/12/22	Japan 🗹
	Brown, Blue, Red, Light Red, Dark Red	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/02/24	Others 🗔
01426 TAKATA QUANTUM PLUS(R)	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2009/07/24	Japan 🗹
	Brown	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2021/06/14	Others
01276 TAKATA QUANTUM SUPREME	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2008/05/28	Japan 🗹
	brown, Light Red, Dark Red	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/02/24	Others 🗌
00400 TAKATA QUANTUM ULTRA	Light Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2004/12/22	Japan 🗹
	Brown	polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/02/24	Others
01669 TAKATA QUANTUM X-mile 000	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2017/06/16	Japan 🗹
		polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/06/15	Others
01670 TAKATA QUANTUM X-mile 000	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2017/06/16	Japan 🗹
FB		polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/06/15	Others

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This list was updated on 2018/06/15 Page 3/ KANSAI PAINT MARINE CO.,LTD.

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	f: Registration Expiry	Manufactured in
01491	TAKATA QUANTUM X-mile 001	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2011/06/03	Japan 🗹
			polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/02/24	Others 🗆
01492	TAKATA QUANTUM X-mile 002	Brick, Maroon, Blue		1317-39-1	Cuprous oxide	2011/06/03	Japan 🗹
			polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/02/24	Others
01493	TAKATA QUANTUM X-mile 003	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2011/06/03	Japan 🗹
			polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/02/24	Others
01494	TAKATA QUANTUM X-mile 005	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2011/06/03	Japan 🗹
			polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others 🗆
01495	TAKATA QUANTUM X-mile 006	Brick, Maroon, Blue	e Organotin-free self	1317-39-1	Cuprous oxide	2011/06/03	Japan 🗹
			polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/04/13	Others
01496	TAKATA QUANTUM X-mile 007	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2011/06/03	Japan 🗹
			polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others
01666	TAKATA QUANTUM X-mile FB	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2017/06/16	Japan 🗹
			polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2020/06/15	Others 🗆
01665	TAKATA QUANTUM X-mile ND	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2017/06/16	Japan 🗹
			polishing hydrolysis type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/06/15	Others 🗆
01630	X-mile Premium 101	Brick, Maroon	Organotin-free self polishing hydration type	1317-39-1	Cuprous oxide	2016/04/22	Japan 🗹
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/04/22	Others
01631	X-mile Premium 102	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2016/04/22	Japan 🗹
			polishing hydration type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2019/04/22	Others
01632	X-mile Premium 103	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2016/04/22	Japan 🗹
			polishing hydration type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2019/04/22	Others
01633	X-mile Premium 105	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2016/04/22	Japan 🗹
			polishing hydration type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2019/04/22	Others
01634	X-mile Premium 106	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2016/04/22	Japan 🗹
			polishing hydration type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/04/22	Others
01635	X-mile Premium 107	Brick, Maroon	Organotin-free self polishing hydration type	1317-39-1	Cuprous oxide	2016/04/22	Japan 🗹
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/04/22	Others
						I.	-

[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 on 2018/06/15 Page 4/ KANSAI PAINT MARINE CO.,LTD.

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

Reg.No. Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC) Date	tes of: Registration Expiry	Manufactured in
01636 X-mile Premium 108	Brick, Maroon	Organotin-free self	1317-39-1	Cuprous oxide	2016/04/22	Japan 🗸
	polishing hydration type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2019/04/22	Others 🗀	

Name of Manufacturer: KOBE PAINTS, LTD.

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

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

\*Registered Sytems Listed in alphabetical Order.

51 products registered as of 2018/06/15

Reg.No. Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC) Da	tes of: Re	egistration Expiry	Manufactured in
01333 AQUA ACE 3000	Red, Blue, White,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide		009/04/03	Japan 🗸
	Black	polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	20	018/12/17	Others 🗀
			971-66-4	Pyridine-triphenylborane			
01331 CLEAN A/F 1000	Brown, Red	Organotin-free conventional type	1317-39-1	Cuprous oxide		009/04/03 021/06/14	Japan 🗹 Others 🗌
01542 CLEAN A/F 700	Red Brown	Organotin-free conventional type	1317-39-1	Cuprous oxide		012/12/10 018/12/17	Japan 🗹 Others 🗌
01503 KP ACE A/F ST 20	Light Brown, Brown	n, Organotin-free self polishing type	1317-39-1	Cuprous oxide		011/10/14	Japan 🗹
	Black		64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	20	019/04/22	Others
01334 NEW CHAMPION	Red, Blue, White,	poliching type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		009/04/03	Japan 🗹
	Black		64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	20	018/12/17	Others
			971-66-4	Pyridine-triphenylborane			
01332 NEW PLACOAT	Red, Blue, Brown	Organotin-free conventional type	1317-39-1	Cuprous oxide		009/04/03 021/06/14	Japan 🗹 Others 🗌
01335 OCEAN DYNA K-LINE GREY APPROXIMATE COLOR	Grey	Organotin-free self polishing type	971-66-4	Pyridine-triphenylborane		009/04/03 021/06/14	Japan 🗹 Others 🗌
01569 OCEAN PREMIER 1000	Light Red, Red, Blu	e Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1 pyrrole-3-carbonitrile	11	013/08/22 019/08/26	Japan 🗹 Others
		. 571	13463-41-7	Zinc-2-pyridinethiol-1-oxide			
01468 OCEAN PREMIER 200	Light Red, Red	Organotin-free self	1317-39-1	Cuprous oxide		010/08/06	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	_   20	019/08/26	Others 🗀
			28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamir triazine	no-s-		
01469 OCEAN PREMIER 400	Light Red, Red	Organotin-free self polishing type	731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethylamin sulfonyl)-1-fluoro-N-(4-methylphenyl)	110)	010/08/06 019/08/26	Japan 🗹 Others 🗌
			971-66-4	Pyridine-triphenylborane			
01613 OCEAN PREMIER 400 KAI	Light Red, Red	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide		015/06/19	Japan 🗹
		polishing type	971-66-4	Pyridine-triphenylborane	20	021/06/14	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.

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) Ty	pe of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates of	f: Registration Expiry	Manufactured in
01470 OCEAN PREMIER 400H	Light Red, Red	Organotin-free self polishing type	731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethylamino) sulfonyl)-1-fluoro-N-(4-methylphenyl)	2010/08/06 2019/08/26	Japan 🗹 Others
			971-66-4	Pyridine-triphenylborane		
01471 OCEAN PREMIER 400H	Blue	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2010/08/06	Japan 🗹
		polishing type	971-66-4	Pyridine-triphenylborane	2019/08/26	Others
01615 OCEAN PREMIER 400H KAI	Light Red, Red	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2015/06/19	Japan 🗹
		polishing type	971-66-4	Pyridine-triphenylborane	2021/06/14	Others
01472 OCEAN PREMIER 450	Light Red, Red	naliahina tuna	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2010/08/06	Japan 🗹
			971-66-4	Pyridine-triphenylborane	2019/08/26	Others
01473 OCEAN PREMIER 800	Purple, Light Red,	5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1317-39-1	Cuprous oxide	2010/08/06	Japan 🗹
	Red, Light Red N, Red N, Blue	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2018/12/17	Others
01637 OCEAN PREMIER 800 Z	Purple, Light Red,	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2016/04/22	Japan 🗹
	Red, Light Red N, Red N, Blue, Light Red H, Red H, Blue H		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/06/15	Others
01474 OCEAN PREMIER 850	Light Red, Red	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2010/08/06	Japan 🗸
	,		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2019/08/26	Others 🗌
01540 OCEAN-DYNA	White	Organotin-free self polishing type	971-66-4	Pyridine-triphenylborane	2012/12/10 2018/12/17	Japan 🗹 Others
01467 OCEAN-DYNA NEO	Light Red, Red, Light	Organotin-free self	1317-39-1	Cuprous oxide	2010/08/06	Japan 🗸
	Red N, Red N	polishing type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine	2020/04/13	Others 🗌
01649 OCEAN-DYNA NEO	Light Red N2, Red N2		1317-39-1	Cuprous oxide	2016/12/07	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/12/07	Others
01621 OCEAN-DYNA NEO 500 Z	Light Red, Red	Organotin-free self	1317-39-1	Cuprous oxide	2015/08/21	Japan 🗹
	-	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2018/08/20	Others
01647 OCEAN-DYNA NEO CF Z	Light Red, Red	Organotin-free self	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-	2016/08/26	Japan 🗹
	-	polishing type		pyrrole-3-carbonitrile	2019/08/26	Others
			13463-41-7	Zinc-2-pyridinethiol-1-oxide	0044/15/11	
01502 OCEAN-DYNA NEO FLAT	Light Red, Red	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2011/10/14 2020/11/01	Japan ✔ Others □
			14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/11/01	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.

This list was updated on 2018/06/15 Page 2/ KOBE PAINTS, LTD.

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) Ty	pe of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates	of: Registration Expiry	Manufactured in
01601 OCEAN-DYNA NEO FLAT Z	Light Red, Red	Organotin-free self	1317-39-1	Cuprous oxide	2015/02/20	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/02/15	Others
01539 OCEAN-DYNA NEO SL	Light Brown, Brown,	Organotin-free self	1317-39-1	Cuprous oxide	2012/12/10	Japan 🔽
	Light Brown H, Brown H	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/06/15	Others
01599 OCEAN-DYNA NEO SL Z	Light Brown, Brown,	Organotin-free self	1317-39-1	Cuprous oxide	2015/02/20	Japan 🗹
	Light Brown H, Brown H	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/06/15	Others 🗔
01583 OCEAN-DYNA NEO Z	Light Red N, Red N	polishing type 2	1317-39-1	Cuprous oxide	2014/04/11	Japan 🗹
			28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine	2020/04/13	Others
01650 OCEAN-DYNA NEO Z	Light Red N2, Red N2		1317-39-1	Cuprous oxide	2016/12/07	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/12/07	Others
01566 OCEAN-DYNA NEO-S	Light Red, Red		1317-39-1	Cuprous oxide	2013/08/22	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/08/26	Others 🗆
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
01602 OCEAN-DYNA NEO-S Z	Light Red, Red, Red	Organotin-free self polishing type	1317-39-1	Cuprous oxide	2015/02/20	Japan 🗹
	N, Brown		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/02/15	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
01461 OYASHIO	Red	Organotin-free self	1317-39-1	Cuprous oxide	2010/06/04	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/04/22	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
01459 SOKOPEN	Red, Blue	Organotin-free self	1317-39-1	Cuprous oxide	2010/06/04	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/04/22	Others 🗌
00197 SUPER A/F 1000	Purple, Red, Light	Organotin-free self	1317-39-1	Cuprous oxide	2004/06/21	Japan 🗹
	Red	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/04/22	Others
01490 SUPER A/F 1000L	Light Brown, Brown,	Organotin-free self	1317-39-1	Cuprous oxide	2011/06/03	Japan 🗹
	Dark Brown, Light Brown H, Brown H	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/06/15	Others
01337 SUPER A/F 200 R	Red, Light Red	Organotin-free self	1317-39-1	Cuprous oxide	2009/04/03	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/06/14	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		

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

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) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration Expiry	Manufactured in
01075 SUPER A/F 2000	Light Red, Dark Red,		1317-39-1	Cuprous oxide		2005/11/24	Japan 🗹
	Red, Blue, Black	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S	S)-	2018/12/17	Others
01638 SUPER A/F 2000 A	Purple, Light Red,	Organotin-free self	1317-39-1	Cuprous oxide		2016/04/22	Japan 🗹
	Red, Light Red N, Red N, Blue, Black	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S	S)-	2020/06/15	Others
	(1st coat), Black (2nd coat), Light Red H, Red H, Blue H	i					
01340 SUPER A/F 2000 S	Red, Light Red	Organotin-free self	1317-39-1	Cuprous oxide		2009/04/03	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S	S)-	2021/06/14	Others 🗌
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01504 SUPER A/F 220HS	Light Brown, Brown,	Organotin-free self	1317-39-1	Cuprous oxide		2011/10/14	Japan 🗹
	Brown S, Light Brown S	polishing type				2021/02/15	Others
00194 SUPER A/F 500	Purple, Light Red,	Organotin-free self	1317-39-1	Cuprous oxide	2004/06/21	Japan 🗹	
	Red	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S	S)-	2019/04/22	Others
01452 SUPER A/F 500 HS	Purple, Light Red,	Organotin-free self	1317-39-1	Cuprous oxide		2010/08/06	Japan 🗹
	Red, Light Red N, Red N	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S	3)-	2020/11/01	Others
01339 SUPER A/F 500 M	Purple, Red, Light	Organotin-free self	1317-39-1	Cuprous oxide		2009/04/03	Japan 🗹
	Red, Light Red N, Red N	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S	3)-	2020/11/01	Others
01453 SUPER A/F 500 M HS	Light Red, Red, Light	t Organotin-free self	1317-39-1	Cuprous oxide		2010/08/06	Japan 🗹
	Red N, Red N	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S	S)-	2020/11/01	Others
01439 SUPER A/F 660 HS	Brown, Light Brown	Organotin-free self	1317-39-1	Cuprous oxide		2009/11/20	Japan 🗹
		polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2018/12/17	Others 🗌
01290 SUPER A/F CF SUPER	Red, Light Red	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2008/05/28	Japan 🗹
		polishing type	971-66-4	Pyridine-triphenylborane		2020/06/15	Others
01341 SUPER A/F CF SUPER NDF	Red	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2009/04/03	Japan 🗹
		noliching type	971-66-4	Pyridine-triphenylborane		2020/06/15	Others
01263 SUPER A/F CF-10	Purple, Red, Light	t Organotin-free self 1	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2008/03/18	Japan 🗹
	Red		971-66-4	Pyridine-triphenylborane		2020/06/15	Others

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

This list was updated on 2018/06/15 Page 4/ KOBE PAINTS, LTD.

Name of Manufacturer: KOBE PAINTS, LTD.

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
01289 SUPER A/F CF-10A	Red, Light Red	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2008/05/28	Japan 🗹
		polishing type	971-66-4	Pyridine-triphenylborane		2020/06/15	Others 🗆
01264 SUPER A/F CF-10L	Purple, Red, Light Red	d Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2008/03/18	Japan 🗹
			971-66-4	Pyridine-triphenylborane		2018/12/17	Others
01435 SUPER A/F CF-10LA	Light Red, Red	Organotin-free self polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2009/11/20	Japan 🗹
			971-66-4	Pyridine-triphenylborane		2018/12/17	Others

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.

#### products registered as of 2018/06/15

Reg.No. Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration Expiry	Manufactured in
01605 A-LF-Sea 100 HS	Brown R, Light Brown R, Blue R	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethy	yl)-1H-	2015/04/17 2021/02/15	Japan   ✓ Others
			13463-41-7	Zinc-2-pyridinethiol-1-oxide			
01535 A-LF-Sea 100 HS	Brown A, Light	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2012/10/12	Japan 🗸
	Brown A, Blue A	polishing type	731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethy sulfonyl)-1-fluoro-N-(4-methylphenyl)	rlamino)	2018/08/20	Others
			971-66-4	Pyridine-triphenylborane			
01532 A-LF-Sea 150	Red Brown, Brown,		1317-39-1	Cuprous oxide		2012/10/12	Japan 🗸
	Light Brown, Brown SK, Light Brown SK		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato (	O,S)-	2020/06/15	Others 🗹
	Brown EK, Light Brown EK	s,					
01651 A-LF-Sea 200	Brown, Light Brown	Organotin-free self	1317-39-1	Cuprous oxide		2016/12/07	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato (	O,S)-	2019/12/07	Others 🗀
01533 A-LF-Sea 250	Red Brown, Brown,		1317-39-1	Cuprous oxide		2012/10/12	Japan 🗹
	Light Brown, Brown SK, Light Brown SK, Brown EK, Light Brown EK		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato (	O,S)-	2020/06/15	Others 🗹
01606 A-LF-Sea 300 HS	Blue R, Brown R, Light Brown R,	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethy pyrrole-3-carbonitrile	yl)-1H-	2015/04/17 2019/04/22	Japan 🗹 Others
	Brown E, Light Brown E, Red IM		13463-41-7	Zinc-2-pyridinethiol-1-oxide			
01553 A-LF-Sea 400	Brown, Red Brown,		1317-39-1	Cuprous oxide		2013/04/12	Japan 🗹
	Light Brown	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato (	O,S)-	2019/04/22	Others 🗸
01534 A-LF-Sea 600	Brown, Red Brown,	Organotin-free self	1317-39-1	Cuprous oxide		2012/10/12	Japan 🗹
	Light Brown, Blue,		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato (	O,S)-	2018/12/17	Others 🗸
	Brown E, Light Brown E, Brown EK Light Brown EK	, ,					

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)	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates	of: Registration Expiry	Manufactured in
01648 A-LF-Sea 600	Cocoa Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2016/10/14	Japan 🗹
	Brown	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/02/15	Others 🗀
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
01653 AQUATERRAS 1000	Brown, Light Brown, Blue	Biocide-free self polishing type			2016/12/07 2020/06/15	Japan <b>⊻</b> Others □
01654 AQUATERRAS 2000	Brown, Light Brown, Blue	Biocide-free self polishing type			2016/12/07 2020/06/15	Japan 🗹 Others
01655 AQUATERRAS 6000	Brown, Light Brown, Blue	Biocide-free self polishing type			2016/12/07 2020/06/15	Japan 🗹 Others
01656 AQUATERRAS 8000	Brown, Light Brown, Blue, Black	Biocide-free self polishing type			2016/12/07 2021/06/14	Japan <b>⊻</b> Others □
01568 BIOFEX A/F	Red Oxide	Organotin-free conventional type	1317-39-1	Cuprous oxide	2013/08/22 2019/06/17	Japan <b>⊻</b> Others □
01104 BIOFLEX 800	Brown, Plum, Red	Organotin-free controlled	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2006/03/10	Japan 🗹
	Brown	depletion polymer type	1317-39-1	Cuprous oxide	2020/06/1	Others 🗸
01466 BIOFLEX 800	Brown C, Dark	Organotin-free controlled	1317-39-1	Cuprous oxide	2010/08/06	Japan 🗹
	Brown C, Red Brown C, Red Brown D, Dark Brown D, Brown D	depletion polymer type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2020/02/24	Others 🗹
00252 BIOFLEX TECHNO	Red Brown	Organotin-free ablative	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
		type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2018/10/15	Others 🗌
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		
00253 BIOFLEX TECHNO	Brown	Organotin-free ablative	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
		type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2018/10/15	Others 🗆
01676 DRAFT A/F Super	White, Black	Organotin-free self polishing	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2017/08/25 2021/04/19	Japan <b>⊻</b> Others □
			13463-41-7	Zinc-2-pyridinethiol-1-oxide		
00245 ECOLOFLEX SPC	Beetle Black	nolishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2004/03/18	Japan 🗸
			971-66-4	Pyridine-triphenylborane	2019/02/17	Others 🗀

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

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) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates of	Registration Expiry	Manufactured in
00364 ECOLOFLEX SPC 100	Dark Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2005/11/21	Japan 🗸
	Brown M, Red Brown, Medium	polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2020/02/24	Others 🗹
	Brown, Medidin Brown, Dark Brown C, Red Brown C					
01325 ECOLOFLEX SPC 100FWR	Red Brown, Dark	Organotin-free self	1317-39-1	Cuprous oxide	2008/11/27	Japan 🗹
	Brown, Brown C, Light Brown C	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/02/24	Others 🗹
01249 ECOLOFLEX SPC 150HyB	Cherry V, Plum V,	Organotin-free self	1317-39-1	Cuprous oxide	2008/01/30	Japan 🗹
	Brown, Light Brown, Brown C, Light	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/06/15	Others 🗹
	Brown C, Brown B, Light Brown B,					
	Brown SK, Light					
	Brown SK, Brown E, Light Brown E,					
	Brown EK, Light					
01500 ECOLOFLEX SPC100 HS	Brown EK Red Brown, Brown	Organotin-free self	1317-39-1	Cuprous oxide	2011/08/05	Japan 🗸
01000 E00E01 EEX 01 0100 110	rtea Brown, Brown	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/04/19	Others 🗹
01485 ECOLOFLEX SPC200	Chocolat K, Light	Organotin-free self	1317-39-1	Cuprous oxide	2011/03/24	Japan 🗸
	Brown K, Dark Brown		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-	2021/06/14	Others 🗹
	K, Brown Z, Light Brown Z			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
01501 ECOLOFLEX SPC200 HS	Red Brown, Brown	Organotin-free self	1317-39-1	Cuprous oxide	2011/08/05	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/04/19	Others 🗸
01023 ECOLOFLEX SPC2000	Brown, Light Brown,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2005/06/30	Japan 🗹
	Brown B, Light Brown B	polishing type	971-66-4	Pyridine-triphenylborane	2018/06/18	Others
01102 ECOLOFLEX SPC250 HyB	CherryV, PlumV,	Organotin-free self	1317-39-1	Cuprous oxide	2006/03/10	Japan 🔽
	Cherry SK, Plum SK, Cherry EK, Plum EK	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/06/15	Others 🗹
00368 ECOLOFLEX SPC400	Cherry V, Plum V	Organotin-free self	1317-39-1	Cuprous oxide	2004/11/19	Japan 🗹
		polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2019/06/17	Others 🗌

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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) Ty	pe of anti-fouling system	CAS No.	Chemical name (IUPAC) Date	tes of:	Registration Expiry	Manufactured in
01328 ECOLOFLEX SPC400 HyB	Cherry V, Plum V, Brown, Light Brown, Black	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide  Copper, bis(1,hydroxy-2(1H)-pyridinethionato 0,S)-		2009/01/23 2019/04/22	Japan ✔ Others ✔
00370 ECOLOFLEX SPC600	Dark Brown, Red Brown, Cherry V, Plum V, Blue, Blue V, Green	Organotin-free self polishing type	1317-39-1 13463-41-7	Cuprous oxide Zinc-2-pyridinethiol-1-oxide		2004/11/19 2019/04/22	Japan ✔ Others
01476 ECOLOFLEX SPC600	Pink, Cherry S	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2010/10/01 2020/04/13	Japan 🗹 Others 🗌
00371 ECOLOFLEX SPC600 HyB	Cherry V, Plum V, Cherry F, Plum F, Extra Cherry, Extra Plum, Red Brown, Red, Black, Green, Brown, Light Brown, Brown V, Cherry E, Plum E, Cherry EK, Plum EK	Organotin-free self polishing type	1317-39-1 14915-37-8	Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	. 2	2004/11/19 2018/12/17	Japan ♥ Others ♥
01657 ECOLOFLEX SPC600 HyB	Cocoa Brown	Organotin-free 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 2020/02/24	Japan 🗹 Others 🗌
00243 ECOLOFLEX SPC700	Cherry V, Plum V	Organotin-free self polishing type	1317-39-1 13463-41-7	Cuprous oxide Zinc-2-pyridinethiol-1-oxide		2004/03/18 2020/04/13	Japan 🗹 Others 🗌
00363 ECOLOSILK	Gray, White, Red, Black, Green, Signal Red, Blue	Biocide-free silicone type	-	-		2004/10/26 2020/04/13	Japan 🗹 Others 🗌
01576 ECOLOSILK 100	Red Brown, Brown, Light Brown, Red, Blue, Green, White, Black, Yellow, Gray	Biocide-free silicone type	-	-		2014/02/14 2020/02/24	Japan 🗹 Others
01191 ECOLOSILK 600	Red	Biocide-free silicone type	_	-		2007/03/13 2018/10/15	Japan 🗹 Others
01575 ECOLOSILK 700	Red Brown, Brown, Light Brown, Red, Blue, Green, White, Black, Yellow, Gray	Biocide-free silicone type	-	-		2014/02/14 2020/02/24	Japan 🗹 Others 🗌

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<sup>\*</sup>Product name case is typed as on the application form.

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) T	ype of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates of	Registration Expiry	Manufactured in
01622 ECOLOSILK 800	Brown, Red Brown,	Biocide-free silione type			2015/08/21	Japan 🗸
	Light Brown, Red, Blue, Green, White,				2018/08/20	Others
	Black, Yellow, Gray					
01681 ECOLOSILK AXEL	MARIGOLD	Biocide-free silicone type			2017/12/04	Japan 🗹
					2021/06/14	Others 🗹
01664 Fisherman's HISOL	Red	Organotin-free ablative	1111-67-7	Cuprous Thiocyanate	2017/04/14	Japan 🗸
		type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine	2020/04/13	Others
00294 HISOL 100	Brown, Light Brown,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2004/05/21	Japan 🗸
	Blue, Brown S	polishing type	971-66-4	Pyridine-triphenylborane	2018/02/19	Others
01609 HISOL 100	Brown F, Blue F,	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-	2015/04/17	Japan 🗸
	Light Brown R			pyrrole-3-carbonitrile	2021/02/15	Others
			13463-41-7	Zinc-2-pyridinethiol-1-oxide	2004/05/04	
00296 HISOL 300	Brown, Light Brown,		13463-41-7	Zinc-2-pyridinethiol-1-oxide	2004/05/21	Japan <b>⊻</b> Others □
	Brown S, Red	polishing type	971-66-4	Pyridine-triphenylborane	2018/06/18	<u>'</u>
01610 HISOL 300	Brown F, Light Brown R, Brown R	n Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2015/04/17 2021/02/15	Japan <b>⊻</b> Others □
			13463-41-7	Zinc-2-pyridinethiol-1-oxide		
01326 JYUNPU	Red, Black, Blue	Organotin-free self	1317-39-1	Cuprous oxide	2008/11/27	Japan 🗸
		polishing type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2020/08/24	Others 🗀
01227 LF-Sea 100 HS	Brown, Light Brown,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2007/07/26	Japan 🗸
	Blue, Brown S, Blue	S polishing type	971-66-4	Pyridine-triphenylborane	2018/02/19	Others
01608 LF-Sea 100 HS	Brown R, Light Brown R, Blue R,	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2015/04/17 2021/02/15	Japan 🗹 Others 🗌
	Brown E, Light Brown E		13463-41-7	Zinc-2-pyridinethiol-1-oxide		
01640 LF-Sea 100 HS	Brown EX, Light Brown EX	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2016/06/17 2019/06/17	Japan 🗹 Others 🗌
			13463-41-7	Zinc-2-pyridinethiol-1-oxide		
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		

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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) Ty	pe of anti-fouling system	CAS No.	Chemical name (IUPAC) Dates o	f: Registration Expiry	Manufactured in
01250 LF-Sea 150 HyB	Brown, light Brown,	Organotin-free self	1317-39-1	Cuprous oxide	2008/01/30	Japan 🔽
	Brown K, Light Brown K, Brown SK,	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/12/07	Others 🗹
	Light Brown SK, B Brown SK, B light Brown SK					
01228 LF-Sea 250 HyB	Cherry, Plum, Cherry	Organotin-free self	1317-39-1	Cuprous oxide	2007/07/26	Japan 🔽
	SK, Plum SK	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2021/02/15	Others 🗸
01262 LF-Sea 300 HS	Blue A, Brown A,	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2008/03/18	Japan 🗹
	Light Brown A	polishing type	731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethylamino) sulfonyl)-1-fluoro-N-(4-methylphenyl)	2018/04/16	Others
			971-66-4	Pyridine-triphenylborane		
01607 LF-Sea 300 HS	Brown R, Light Brown R, Blue R	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2015/04/17 2021/02/15	Japan 🗹 Others 🗌
			13463-41-7	Zinc-2-pyridinethiol-1-oxide		
	Cherry, Plum, Brown,	Organotin-free self	1317-39-1	Cuprous oxide	2007/12/10	Japan 🗹
	Light Brown	polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/04/22	Others 🗹
01652 LF-Sea 600	Cherry S, Plum S	Organotin-free self	1317-39-1	Cuprous oxide	2016/12/07	Japan 🗹
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/12/07	Others 🗔
01226 LF-Sea 600 HyB	Cherry, Plum, Cherry	, polishing type	1317-39-1	Cuprous oxide	2007/07/26	Japan 🗹
	D, Plum D, Blue D,		14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2018/08/20	Others 🗹
	Red, Blue, Cherry G, Plum G, Cherry J, Plum J				•	
01612 MARIART X	Black, White, Gray	Organotin-free ablative	1111-67-7	Cuprous Thiocyanate	2015/06/19	Japan 🗹
		type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine	2021/04/19	Others 🗌
01382 MASSIVE	Black, White, Gray,	Organotin-free ablative	1111-67-7	Cuprous Thiocyanate	2009/04/03	Japan 🗹
	Blue, Red	type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine	2018/08/20	Others 🗌
00246 NIPPE STRONG 7000	Cherry	Organotin-free self	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
		poliching typo	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2018/10/15	Others
01078 PROPELLER ICHIBAN	Blue	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2005/11/21	Japan 🗹
			971-66-4	Pyridine-triphenylborane	2020/04/13	Others 🗔

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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
01680 PROPELLER ICHIBAN	Blue M	Organotin-free self	1111-67-7	Cuprous Thiocyanate	2017/12/04	Japan 🗹
		polishing type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s triazine	2020/12/03	Others
01677 SEACHEST GUARD	Red	Organotin-free self	1317-39-1	Cuprous oxide	2017/08/25	Japan 🗹
		polishing	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2020/08/24	Others 🗆
01077 SEACHEST SUPERGUARD A/F	Red, Gray	Organotin-free ablative	1317-39-1	Cuprous oxide	2005/11/21	Japan 🗹
		type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2020/04/13	Others
01642 SILYL A/F PAINT FOR SHIP'S	Black	Organotin-free self	1317-39-1	Cuprous oxide	2016/06/17	Japan 🗹
BOOTTOP		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/06/17	Others
01641 SILYL A/F PAINT FOR SHIP'S	Red	Organotin-free self	1317-39-1	Cuprous oxide	2016/06/17	Japan 🗹
BOTTOM		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/06/17	Others
01014 UNAGI TORYO ICHIBAN	Blue, Green, Red,	Organotin-free self	1317-39-1	Cuprous oxide	2005/06/30	Japan 🗹
	Brown, Retro Red, Blue Kai	polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2019/02/17	Others
01443 UNAGI TORYO ICHIBAN	Azayaka White 1	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2010/01/22	Japan 🗹
		polishing type	971-66-4	Pyridine-triphenylborane	2019/02/17	Others
01624 UNAGI TORYO ICHIBAN	Black	Organotin-free ablative	1111-67-7	Cuprous Thiocyanate	2015/12/18	Japan 🗹
		type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s triazine	2018/12/17	Others 🗌
01623 UNAGI TORYO ICHIBAN	Red, Blue, White	Organotin-free ablative	1111-67-7	Cuprous Thiocyanate	2015/10/16	Japan 🗹
AZAYAKA		type	28159-98-0	2-methylthio-4-tert-butylamino-6-cyclopropylamino-s triazine	2019/08/26	Others
01555 UNAGI TORYO ICHIBAN AZAYAKA SUPER	Black, Red, Blue, White, Beetle Black	Organotin-free self	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2013/06/18 2021/06/14	Japan ✔ Others ✔
712/1/WOODI EIK	Venus White, Beetl Gray, K-line Gray		13463-41-7	Zinc-2-pyridinethiol-1-oxide	2021/ 00/11	
01448 UNAGI TORYO ICHIBAN	Red A1, Blue A1	Organotin-free self	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2010/01/22	Japan 🗸
AZAYAKA TOKUJYOU	rica /ri, blac /ri	polishing type	731-27-1	Methanesulfenamide, 1,1-dichloro-N-((dimethylamino)	2019/02/17	Others 🗌
			731 27 1	sulfonyl)-1-fluoro-N-(4-methylphenyl)		
			971-66-4	Pyridine-triphenylborane		
01570 UNAGI TORYO ICHIBAN LF-Sea	Blue, Red	Organotin-free self 131	1317-39-1	Cuprous oxide	2013/10/11	Japan 🗸
		polishing type	14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-	2019/10/14	Others

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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.

#### 27 products registered as of 2018/06/15

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	Red, Red Brown	Organotin-free ablative	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2004/03/18	Japan 🗹
	Musuzu		type	1317-39-1	Cuprous oxide		2019/04/22	Others
00084	Crown Color Sentei Toryou YS	Blue	Organotin-free ablative	1317-39-1	Cuprous oxide		2004/03/18	Japan 🗹
	Musuzu		type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2019/04/22	Others
00081	Crown Super 243	Red, Black	Organotin-free self	1317-39-1	Cuprous oxide		2004/03/18	Japan 🗹
			polishing type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2020/08/24	Others
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
00082	Crown Super 243	Red Brown	Organotin-free self	1317-39-1	Cuprous oxide		2004/03/18	Japan 🗹
			polishing type	1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile		2019/04/22	Others
				330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea			
00086	Marine Super TF-100	Red Brown	Organotin-free ablative	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2004/03/18	Japan 🗹
			type	1317-39-1	Cuprous oxide		2019/04/22	Others 🗀
00087	Rabal A/F	Red Brown	Organotin-free ablative	1317-39-1	Cuprous oxide		2004/03/18	Japan 🗹
			type				2019/04/22	Others 🗆
01256	Sigma Alphagen 230	Brown, Red Brown		1317-39-1	Cuprous oxide		2008/01/30	Japan └ Others <b>✓</b>
		Black, Blue, Grey, Green		330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2020/02/24	Otners 🖭
01106	Sigma Alphagen 240	Red Brown, Brown	Organotin-free self	1317-39-1	Cuprous oxide		2006/03/10	Japan 🗆
			polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2020/02/24	Others 🗹
01114	Sigma Alphagen 650	Redbrown, Brown	Organotin-free self	1317-39-1	Cuprous oxide		2006/04/25	Japan 🗌
			polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		2020/02/24	Others 🗹
01025	Sigma Boatmax	Blue	Organotin-free self	1317-39-1	Cuprous oxide		2005/09/01	Japan 🗹
			polishing type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		2020/08/24	Others 🗌
01026	Sigma Boatmax	Red, Black	Organotin-free self	1317-39-1	Cuprous oxide		2005/09/01	Japan 🗹
			polishing type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2020/08/	2020/08/24	Others
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one			
01513	Sigma EcoFleet 290S	Brown, Red Brown	n Organotin-free self-	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2011/12/07	Japan 🔲
	-	•	polishing	1317-39-1	Cuprous oxide		2020/12/03	Others 🗸

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This list was updated on 2018/06/15 Page 1/ PPG PMC JAPAN CO.,LTD.

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)	Гуре of anti-fouling system	CAS No.	Chemical name (IUPAC) Date	s of: Registration Expiry	Manufactured in
00068 Sigma EcoFleet 530	Brown, Red Brown	Organotin-free self	1317-39-1	Cuprous oxide	2004/06/21	Japan
		polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2019/04/22	Others 🗹
01257 Sigma KAISEN M	New Red, New Blue	Organotin-free self	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2008/04/03	Japan 🗹
		polishing type	971-66-4	Pyridine-triphenylborane	2020/02/24	Others
00079 Sigma MANKAI	Red, Red Brown	Organotin-free ablative	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2004/03/18	Japan 🗹
		type	1317-39-1	Cuprous oxide	2019/04/22	Others
00080 Sigma MANKAI	Blue	Organotin-free ablative	1317-39-1	Cuprous oxide	2004/03/18	Japan 🗹
		type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2019/04/22	Others
01558 Sigma Nexeon 710	Brown, Red Brown	Organotin-free self	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-	2013/10/11	Japan
		polishing type		pyrrole-3-carbonitrile	2019/08/26	Others 🗹
			13463-41-7	Zinc-2-pyridinethiol-1-oxide		
01559 Sigma Nexeon 750	Brown, Red Brown, Light Grey	Organotin-free self polishing type	122454-29-9	4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile	2013/08/22 2019/08/26	Japan └ Others <b></b>
	Light Grey	polishing type	13463-41-7	Zinc-2-pyridinethiol-1-oxide	2010/ 00/ 20	
01697 Sigma Sailadvance GX	Brown, Red Brown	Organotin-free self	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2018/02/16	Japan 🗌
o con organic comments on	,	polishing type	1317-39-1	Cuprous oxide	2021/02/15	Others 🗹
01663 Sigma Sailadvance RX	Brown, Red Brown	Organotin-free self polishing type	12122-67-7	Zinc ethylenebis (dithiocarbamate)	2017/02/24	Japan 🗆
· ·	,		1317-39-1	Cuprous oxide	2020/02/24	Others 🗹
01161 Sigma SylAdvance 800	Brown, Red Brown	Organotin-free self	1317-39-1	Cuprous oxide	2007/01/25	Japan 🔲
		polishing type	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	2019/04/22	Others 🗹
00076 Sigma TAIKAI	Red	Organotin-free self	1317-39-1	Cuprous oxide	2004/06/21	Japan 🗹
•		polishing type	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2019/04/22	Others
			64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		
00077 Sigma TAIKAI	Red Brown	Organotin-free self	1317-39-1	Cuprous oxide	2004/06/21	Japan 🗹
		polishing type	1897-45-6	2,4,5,6-Tetrachloroisophthalonitrile	2019/04/22	Others 🗌
			330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea		
00453 Sigmaglide 890	Clear, Redbrown,	Biocide-free silicone type	_	-	2005/02/17	Japan 🗌
	Blue, Black, Red				2020/02/24	Others 🗹
01510 Sigmaglide 990	Dark Red, Dark Blue	Biocide-free silicone type	_	-	2011/12/07	Japan
					2020/12/03	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 on 2018/06/15 Page 2/ PPG PMC JAPAN CO.,LTD.

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

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
00071 Sigmaglide LSE Finish	Clear	Biocide-free silicone type	_	-		2004/06/21 2019/04/22	Japan ☐ Others ✔
00085 Sigmaplane ECOL A/F HA (J)	Red Brown	Organotin-free self polishing 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		2004/03/18 2019/04/22	Japan 🗹 Others 🗌

Name of Manufacturer: WAKO ECO PAINT Inc.

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

\*Registered Sytems Listed in alphabetical Order.

5 products registered as of 2018/06/15

Reg.No.	Name of anti-fouling system	Colour(s) Tyl	pe of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of: Registration Expiry	Manufactured in
01525 E	CO AF-E	Light Red, Brown Red	Tin-Free Effluent Control Antifouling Paint	1317-39-1	Cuprous oxide	2012/08/03	Japan 🗌
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	* 2018/06/18	Others 🗹
01639 E	CO AF-K	Blue 1	Tin-Free Effluent Control Antifouling Paint	1317-39-1	Cuprous oxide	2016/04/22	Japan
						2019/04/22	Others 🗹
01524 E	CO AF-S	Light Red, Brown Red	Tin-Free Effluent Control Antifouling Paint	1317-39-1	Cuprous oxide	2012/08/03 * 2018/06/18	Japan 🗌
				64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		Others 🗹
01528 E	CO AF-Z	Red	Tin-Free Effluent Control Antifouling Paint	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2012/06/01 * 2018/06/18	Japan ☐ Others ✔
				971-66-4	Pyridine-triphenylborane		
01529 E	ECO AF-Z	Blue	Tin-Free Effluent Control Antifouling Paint	330-54-1	3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea	2012/06/01 * 2018/04/16	Japan ☐ Others ✔
				971-66-4	Pyridine-triphenylborane		

floorContinuation application in process

This list was updated on 2018/06/15 Page 1/ WAKO ECO PAINT Inc.