



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

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

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

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

\*Registered Systems Listed in alphabetical Order.

54 products registered as of 2017/08/25

Reg.No.	Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration Expiry	Manufactured in
00121	AF FOR SEA CHEST	Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/04/22	Others <input type="checkbox"/>
01424	AF MX-2080	Light Brown, Brown	Organotin-free self polishing hydrolysis type	13463-41-7	Zinc-2-pyridinethiol-1-oxide		2009/07/24 2018/06/18	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
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 2017/08/21	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00123	C-RUBAN A/F	Brown	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/03/18 2019/04/22	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00128	C-RUBAN A/F for SUBMARINE	Brown	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/03/18 2019/04/22	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00126	C-RUBAN A/F HP	Brown	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/03/18 2019/04/22	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00129	C-RUBAN B/T for SUBMARINE	Black	Organotin-free ablative type	1317-39-1	Cuprous oxide		2004/03/18 2019/04/22	Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/>
00157	NEWPLADOL for SUBMARINE	Black	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/04/22	Others <input type="checkbox"/>
01279	NKM SEAFORCE30	Dark Red, Light Red	Organotin-free self polishing hydration type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2008/05/28	Japan <input checked="" type="checkbox"/>
				1317-39-1	Cuprous oxide		2020/02/24	Others <input type="checkbox"/>
01107	SEAFORCE 30	Light Red, Dark Red	Organotin-free self polishing hydration type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2006/04/25	Japan <input checked="" type="checkbox"/>
				1317-39-1	Cuprous oxide		2018/06/18	Others <input checked="" type="checkbox"/>
01108	SEAFORCE 60	Light Red, Dark Red	Organotin-free self polishing hydration type	12122-67-7	Zinc ethylenebis (dithiocarbamate)		2006/04/25	Japan <input checked="" type="checkbox"/>
				1317-39-1	Cuprous oxide		2018/06/18	Others <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-			
01109	SEAFORCE 90	Light Red, Dark Red, Blue, Black, Green	Organotin-free self polishing hydration type	1317-39-1	Cuprous oxide		2006/04/25	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/06/18	Others <input checked="" type="checkbox"/>
00117	SEAQUEEN	Light Red, Dark Red	Organotin-free self polishing hydration type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/04/22	Others <input checked="" type="checkbox"/>

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

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

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

Reg.No.	Name of anti-fouling system	Colour(s)	Type of anti-fouling system	CAS No.	Chemical name (IUPAC)	Dates of:	Registration	Manufactured
							Expiry	in
01306	SHIN LLL No.100	Brown, Red, Dark Brown, Light Brown, Chocolat, Rouille, Blue, Brown K	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2008/12/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/24	Others <input type="checkbox"/>
01305	SHIN LLL No.100 for HIGH SPEED VESSEL	Brown, Red, Dark Brown, Light Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2008/12/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/08/21	Others <input type="checkbox"/>
01307	SHIN LLL No300	Light Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2008/12/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/08/21	Others <input type="checkbox"/>
01423	SHIN LLL P/B	Brown, Dark Brown, Light Brown, Red	Organotin-free self polishing hydrolysis Type	1317-39-1	Cuprous oxide		2009/07/24	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/24	Others <input type="checkbox"/>
01311	TAKATA A/F for SUBMARINE	Black	Organotin-free ablative type	1317-39-1	Cuprous oxide		2008/12/15	Japan <input checked="" type="checkbox"/>
							2017/08/21	Others <input type="checkbox"/>
01297	TAKATA QUANTUM	MOL Green, Luminous Blue	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2008/12/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/08/21	Others <input type="checkbox"/>
01299	TAKATA QUANTUM 16 FOR COASTAL VESSEL	Brown, Red, Dark Brown, Light Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2008/12/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/08/21	Others <input type="checkbox"/>
01298	TAKATA QUANTUM 20 FOR COASTAL VESSEL	Brown, Red, Dark Brown, Light Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2008/12/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/08/21	Others <input type="checkbox"/>
01425	TAKATA QUANTUM 2L	Light Brown, Dark Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2009/07/24	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/06/18	Others <input type="checkbox"/>
00401	TAKATA QUANTUM CLASSIC	Light Brown, Dark Brown, Dark Red, Light Red, Blue	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/12/22	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/24	Others <input type="checkbox"/>
00403	TAKATA QUANTUM FB	Light Brown, Dark Brown, Light Red, Dark Red	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/12/22	Japan <input checked="" type="checkbox"/>
							2020/02/24	Others <input type="checkbox"/>
01427	TAKATA QUANTUM FB(R)	Light Brown, Dark Brown, Light Red, Dark Red	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2009/07/24	Japan <input checked="" type="checkbox"/>
							2020/02/24	Others <input type="checkbox"/>
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	Japan <input checked="" type="checkbox"/>
							2020/02/24	Others <input type="checkbox"/>

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

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							Expiry	in
00146	TAKATA QUANTUM for COASTAL VESSEL	Brown, Red, Dark Brown, Light Brown, Blue	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/24	Others <input type="checkbox"/>
01662	TAKATA QUANTUM for COASTAL VESSEL	Brown, Dark Brown, Red, Black	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2017/02/24	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/24	Others <input type="checkbox"/>
01300	TAKATA QUANTUM for COASTAL VESSEL SEAKING II	Brown, Red, Dark Brown, Light Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2008/12/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2017/08/21	Others <input type="checkbox"/>
00145	TAKATA QUANTUM for FISHING VESSEL	Brown, Red, Dark Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/04/22	Others <input type="checkbox"/>
00385	TAKATA QUANTUM LLL	Light Brown, Dark Brown, Brown, Dark	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/12/22	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/24	Others <input checked="" type="checkbox"/>
01315	TAKATA QUANTUM LLL FB	Light Brown, Dark Brown, Light Red, Dark Red, Brown, Light	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2008/12/15	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/04/13	Others <input type="checkbox"/>
00143	TAKATA QUANTUM ND	Light Brown, Dark Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/03/18	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/04/22	Others <input type="checkbox"/>
00402	TAKATA QUANTUM PLUS	Light Brown, Dark Brown, Blue, Red, Light Red, Dark Red	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/12/22	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/24	Others <input type="checkbox"/>
01426	TAKATA QUANTUM PLUS(R)	Light Brown, Dark Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2009/07/24	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2018/06/18	Others <input type="checkbox"/>
01276	TAKATA QUANTUM SUPREME	Light Brown, Dark brown, Light Red, Dark Red	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2008/05/28	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/24	Others <input type="checkbox"/>
00400	TAKATA QUANTUM ULTRA	Light Brown, Dark Brown	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2004/12/22	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/02/24	Others <input type="checkbox"/>
01669	TAKATA QUANTUM X-mile 000	Brick, Maroon	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2017/06/16	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/06/15	Others <input type="checkbox"/>
01670	TAKATA QUANTUM X-mile 000 FB	Brick, Maroon	Organotin-free self polishing hydrolysis type	1317-39-1	Cuprous oxide		2017/06/16	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2020/06/15	Others <input type="checkbox"/>

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

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							Expiry	
01636	X-mile Premium 108	Brick, Maroon	Organotin-free self polishing hydration type	1317-39-1	Cuprous oxide		2016/04/22	Japan <input checked="" type="checkbox"/>
				14915-37-8	Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-		2019/04/22	Others <input type="checkbox"/>

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