



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

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 Systems Listed in alphabetical Order.

31 products registered as of 2025/04/18

| Reg.No. | Name of anti-fouling system | Colour(s) | Type of anti-fouling system | CAS No. | Chemical name (IUPAC) | Dates of: | Registration Expiry | Manufactured in |
|---------|-------------------------------------|-----------------|-----------------------------|-------------|--|-----------|---------------------|--|
| 00083 | Crown Color Sentei Toryou YS Musuzu | Red, Red Brown | Ablative type | 12122-67-7 | Zinc ethylenebis (dithiocarbamate) | | 2004/03/18 | Japan <input checked="" type="checkbox"/> |
| | | | | 1317-39-1 | Cuprous oxide | | 2027/12/17 | Others <input type="checkbox"/> |
| 00084 | Crown Color Sentei Toryou YS Musuzu | Blue | Ablative type | 1317-39-1 | Cuprous oxide | | 2004/03/18 | Japan <input checked="" type="checkbox"/> |
| | | | | 330-54-1 | 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea | | 2024/12/02 | Others <input type="checkbox"/> |
| 00081 | Crown Super 243 | Red, Black | Self polishing type | 1317-39-1 | Cuprous oxide | | 2004/03/18 | Japan <input checked="" type="checkbox"/> |
| | | | | 330-54-1 | 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea | | 2026/06/15 | Others <input type="checkbox"/> |
| | | | | 64359-81-5 | 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one | | | |
| 00082 | Crown Super 243 | Red Brown | Self polishing type | 1317-39-1 | Cuprous oxide | | 2004/03/18 | Japan <input checked="" type="checkbox"/> |
| | | | | 1897-45-6 | 2,4,5,6-Tetrachloroisophthalonitrile | | 2024/12/02 | Others <input type="checkbox"/> |
| | | | | 330-54-1 | 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea | | | |
| 00086 | Marine Super TF-100 | Red Brown | Ablative type | 12122-67-7 | Zinc ethylenebis (dithiocarbamate) | | 2004/03/18 | Japan <input checked="" type="checkbox"/> |
| | | | | 1317-39-1 | Cuprous oxide | | 2024/12/02 | Others <input type="checkbox"/> |
| 01868 | PPG Nexeon 810 | Brown Redbrown | Self polishing type | 122454-29-9 | 4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile | | 2025/02/21 | Japan <input type="checkbox"/> |
| | | | | 13463-41-7 | Zinc-2-pyridinethiol-1-oxide | | 2028/02/21 | Others <input checked="" type="checkbox"/> |
| | | | | 86347-14-0 | 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole | | | |
| 00087 | Rabal A/F | Red Brown | Ablative type | 1317-39-1 | Cuprous oxide | | 2004/03/18 | Japan <input checked="" type="checkbox"/> |
| | | | | | | | 2024/12/02 | Others <input type="checkbox"/> |
| 01114 | Sigma Alphagen 650 | Redbrown, Brown | Self polishing type | 1317-39-1 | Cuprous oxide | | 2006/04/25 | Japan <input type="checkbox"/> |
| | | | | 64359-81-5 | 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one | | 2025/12/12 | Others <input checked="" type="checkbox"/> |
| 01025 | Sigma Boatmax | Blue | Self polishing type | 1317-39-1 | Cuprous oxide | | 2005/09/01 | Japan <input checked="" type="checkbox"/> |
| | | | | 330-54-1 | 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea | | 2026/06/15 | Others <input type="checkbox"/> |
| 01026 | Sigma Boatmax | Red, Black | Self polishing type | 1317-39-1 | Cuprous oxide | | 2005/09/01 | Japan <input checked="" type="checkbox"/> |
| | | | | 330-54-1 | 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea | | 2026/06/15 | Others <input type="checkbox"/> |
| | | | | 64359-81-5 | 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one | | | |

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

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

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|---------|-----------------------------|---------------------------------|-----------------------------|---------------------------------------|--|-----------|--------------------------|--|
| | | | | | | | Expiry | in |
| 01727 | Sigma EcoFleet 270 | Brown, Red Brown | Self polishing type | 1317-39-1 | Cuprous oxide | | 2019/08/09 2025/06/16 | Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/> |
| 01513 | Sigma EcoFleet 290S | Brown, Red Brown | Self-polishing type | 12122-67-7 1317-39-1 | Zinc ethylenebis (dithiocarbamate) Cuprous oxide | | 2011/12/07 2026/10/26 | Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/> |
| 00068 | Sigma EcoFleet 530 | Brown, Red Brown | Self polishing type | 1317-39-1 64359-81-5 | Cuprous oxide 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one | | 2004/06/21 2025/10/20 | Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/> |
| 01257 | Sigma KAISEN M | New Red, New Blue | Self polishing type | 64359-81-5 971-66-4 | 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one Pyridine-triphenylborane | | 2008/04/03 2025/12/12 | Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/> |
| 00079 | Sigma MANKAI | Red, Red Brown | Ablative type | 12122-67-7 1317-39-1 | Zinc ethylenebis (dithiocarbamate) Cuprous oxide | | 2004/03/18 2024/12/02 | Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/> |
| 00080 | Sigma MANKAI | Blue | Ablative type | 1317-39-1 330-54-1 | Cuprous oxide 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea | | 2004/03/18 2024/12/02 | Japan <input checked="" type="checkbox"/> Others <input type="checkbox"/> |
| 01558 | Sigma Nexeon 710 | Brown, Red Brown | Self polishing type | 122454-29-9 13463-41-7 | 4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide | | 2013/10/11 2025/06/16 | Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/> |
| 01559 | Sigma Nexeon 750 | Brown, Red Brown, Light Grey | Self polishing type | 122454-29-9 13463-41-7 | 4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile Zinc-2-pyridinethiol-1-oxide | | 2013/08/22 2025/06/16 | Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/> |
| 01829 | Sigma Sailadvance DX (II) | Brown, Red Brown | Self polishing type | 1317-39-1 14915-37-8 | Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- | | 2022/12/13 2025/12/12 | Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/> |
| 01697 | Sigma Sailadvance GX | Brown, Red Brown | Self polishing type | 12122-67-7 1317-39-1 | Zinc ethylenebis (dithiocarbamate) Cuprous oxide | | 2018/02/16 2025/10/20 | Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/> |
| 01826 | Sigma Sailadvance NX | Brown, Red Brown | Self polishing type | 1317-39-1 14915-37-8 64359-81-5 | Cuprous oxide Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one | | 2022/10/21 2025/10/20 | Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/> |
| 01663 | Sigma Sailadvance RX | Brown, Red Brown | Self polishing type | 12122-67-7 1317-39-1 | Zinc ethylenebis (dithiocarbamate) Cuprous oxide | | 2017/02/24 2025/10/20 | Japan <input type="checkbox"/> Others <input checked="" type="checkbox"/> |

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| | | | | | | | Expiry | in |
| 00076 | Sigma TAIKAI | Red | Self polishing type | 1317-39-1 | Cuprous oxide | | 2004/06/21 | Japan <input checked="" type="checkbox"/> |
| | | | | 330-54-1 | 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea | | 2027/12/17 | Others <input type="checkbox"/> |
| | | | | 64359-81-5 | 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one | | | |
| 00077 | Sigma TAIKAI | Red Brown | Self polishing type | 1317-39-1 | Cuprous oxide | | 2004/06/21 | Japan <input checked="" type="checkbox"/> |
| | | | | 1897-45-6 | 2,4,5,6-Tetrachloroisophthalonitrile | | 2024/12/02 | Others <input type="checkbox"/> |
| | | | | 330-54-1 | 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea | | | |
| 01747 | Sigmaglides 1290 | Redbrown, Dark Blue, Black | Biocide-free silicone type | | | | 2020/07/29 | Japan <input type="checkbox"/> |
| | | | | 2026/06/15 | Others <input checked="" type="checkbox"/> | | | |
| 01841 | Sigmaglides 2390 | Redbrown, blue, black, grey, white | Biocide-free silicone type | | | | 2023/10/27 | Japan <input type="checkbox"/> |
| | | | | 2026/10/26 | Others <input checked="" type="checkbox"/> | | | |
| 00453 | Sigmaglides 890 | Clear, Redbrown, Blue, Black, Red | Biocide-free silicone type | - | | | 2005/02/17 | Japan <input type="checkbox"/> |
| | | | | 2025/10/20 | Others <input checked="" type="checkbox"/> | | | |
| 01510 | Sigmaglides 990 | Dark Red, Dark Blue | Biocide-free silicone type | - | | | 2011/12/07 | Japan <input type="checkbox"/> |
| | | | | 2026/10/26 | Others <input checked="" type="checkbox"/> | | | |
| 00071 | Sigmaglides LSE Finish | Clear | Biocide-free silicone type | - | | | 2004/06/21 | Japan <input type="checkbox"/> |
| | | | | 2024/12/02 | Others <input checked="" type="checkbox"/> | | | |
| 00085 | Sigmaplans ECOL A/F HA (J) | Red Brown | Self polishing type | 1317-39-1 | Cuprous oxide | | 2004/03/18 | Japan <input checked="" type="checkbox"/> |
| | | | | 1897-45-6 | 2,4,5,6-Tetrachloroisophthalonitrile | | 2024/12/02 | Others <input type="checkbox"/> |
| | | | | 330-54-1 | 3-(3,4-Dichlorophenyl)-1, 1-dimethyl urea | | | |
| 01842 | Sigmarine 530 | Redbrown, Brown, Black, Blue, Spruce Green | Self polishing type | 1317-39-1 | Cuprous oxide | | 2023/10/27 | Japan <input type="checkbox"/> |
| | | | | 64359-81-5 | 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one | | 2026/10/26 | Others <input checked="" type="checkbox"/> |

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