



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

(2021 amendment)

Name of Manufacturer: HEMPEL A/S

Lundtoftegaardsvej 90, Kongens Lyngby, Denmark

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

\*Registered Systems Listed in alphabetical Order.

30 products registered as of 2025/10/17

| Reg.No. | Name of anti-fouling system             | Colour(s)                         | Type of anti-fouling system        | CAS No.                 | Chemical name (IUPAC)                                               | Dates of: | Registration Expiry      | Manufactured in                                                              |
|---------|-----------------------------------------|-----------------------------------|------------------------------------|-------------------------|---------------------------------------------------------------------|-----------|--------------------------|------------------------------------------------------------------------------|
| 01851   | Hempablue 87750                         | 19990, 59151                      | Biocide free, fouling release type | –                       | –                                                                   |           | 2024/02/16<br>2027/12/17 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01863   | Hempaguard NB, 89970                    | 19990                             | Hybrid type                        | 14915-37-8              | Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-                  |           | 2024/12/17<br>2027/12/17 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01581   | Hempaguard X5 89700                     | 19740, 59161                      | Hybrid type                        | 14915-37-8              | Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-                  |           | 2014/04/11<br>2027/12/17 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01582   | Hempaguard X7 89900                     | 19740, 19744, 59161, 59164        | Hybrid type                        | 14915-37-8              | Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-                  |           | 2014/04/11<br>2027/12/17 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01736   | Hempaguard X8 89940                     | 19740, 59161                      | Hybrid type                        | 14915-37-8              | Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)-                  |           | 2020/02/21<br>2027/12/17 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01864   | Hempaguard XL, 88710                    | 59151                             | Biocide free, fouling release      |                         |                                                                     |           | 2024/12/17<br>2027/12/17 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01627   | Hempasil X3+ 87500                      | 15150, 19990, 30170, 47560, 59151 | Biocide free, fouling release type | –                       | –                                                                   |           | 2016/04/22<br>2027/12/17 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01712   | Hempel's Antifouling Dynamic 9000 79900 | 19900, 51110, 60600               | Hydrolysing silyl acrylate type    | 1317-39-1<br>14915-37-8 | Cuprous oxide<br>Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- |           | 2018/12/07<br>2027/12/17 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01713   | Hempel's Antifouling Dynamic 9000 79950 | 51110, 60600                      | Hydrolysing silyl acrylate type    | 1317-39-1<br>14915-37-8 | Cuprous oxide<br>Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- |           | 2018/12/07<br>2027/02/15 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01686   | Hempel's Antifouling Globic 6000 75952  | 19990, 51110, 60600               | Self-polishing type                | 1317-39-1<br>14915-37-8 | Cuprous oxide<br>Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- |           | 2018/02/16<br>2027/02/15 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |
| 01547   | HEMPEL'S ANTIFOULING GLOBIC 6000, 75950 | 19990, 51110, 60600               | Self polishing type                | 1317-39-1<br>14915-37-8 | Cuprous oxide<br>Copper, bis(1,hydroxy-2(1H)-pyridinethionato O,S)- |           | 2013/02/15<br>2027/12/17 | Japan <input type="checkbox"/><br>Others <input checked="" type="checkbox"/> |

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

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

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

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

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

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