

COMPENDIUM OF CANADA'S ENGAGEMENT IN INTERNATIONAL ENVIRONMENTAL AGREEMENTS AND INSTRUMENTS

International Convention on the Control of Harmful Anti-fouling Systems on Ships (AFS)

SUBJECT CATEGORY:

Marine/ Oceans

TYPE OF AGREEMENT / INSTRUMENT:

Multilateral

FORM:

Legally-binding treaty

STATUS:

- Adopted on 5 October 2001 and entry into force on 17 September 2008
- Entered into force in Canada on July 8, 2010

LEAD & PARTNER DEPARTMENTS:

Lead: Transport Canada

Partners: Environment and Climate Change Canada, Department of Fisheries and Oceans,

Health Canada

FOR FURTHER INFORMATION:

Web Links:

International Maritime Organization Website

Contacts:

Transport Canada Inquiry Centre

COMPENDIUM EDITION:

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PLAIN LANGUAGE SUMMARY

This Convention deals with the prevention of use of anti-fouling paints and systems on the hulls of vessels. Anti-fouling refers to the growth on the hull of vessels. Previously, tin was added in various forms to the compounds used on the hulls but it was found that these compounds were toxic to the marine ecosystems. Subsequently, these substances were banned, and the Convention is now in place to ensure that anti-fouling paints and systems that are used to prevent biofouling on the hulls of vessels are not toxic to the marine environment.

The Convention requires vessels to carry a certificate and a log book to demonstrate that their anti-fouling system does not contain prohibited substances.

All ships in Canadian waters and all Canadian ships everywhere are subject to strict anti-fouling regulations.

OBJECTIVE, KEY ELEMENTS & EXPECTED RESULTS

Anti-fouling paints are used to coat the bottoms of ships to prevent sea life such as algae and molluscs attaching themselves to the hull, which can slow down a ship and increase fuel consumption.

In the early days of sailing ships, lime and later arsenic were used to coat ships' hulls, followed by the modern chemicals industry developing anti-fouling paints using metallic compounds. These compounds slowly release into the sea water, killing barnacles and other marine life that have attached to the ship. More recently, studies have shown that these compounds can persist in the water, harming the environment and possibly entering the marine food chain. For example, one of the most effective anti-fouling paints, developed in the 1960s, contained organo-tributyltin (TBT), which has been proven toxic to the marine environment.

Under the terms of the AFS Convention, Parties to the Convention are required to prohibit and/or restrict the use of harmful anti-fouling systems on ships flying their flag, as well as ships not entitled to fly their flag but



which operate under their authority and all ships that enter a port, shipyard or offshore terminal of a Party.

Anti-fouling systems to be prohibited or controlled are listed in an annex to the Convention, which will be updated as and when necessary.

The Convention includes a clause which states that a ship shall be entitled to compensation if it is unduly detained or delayed while undergoing inspection for possible violations of the Convention.

Annex I states that all ships shall not apply or re-apply organotins compounds which act as biocides in antifouling systems. This applies to all ships (including fixed and floating platforms, floating storage units (FSUs), and Floating Production Storage and Offtake units (FPSOs)).

The Convention provides for the establishment of a "technical group", to include people with relevant expertise, to review proposals for other substances used in anti-fouling systems to be prohibited or restricted. Article 6 on Process for Proposing Amendments to controls on Anti-fouling systems sets out how the evaluation of an anti-fouling system should be carried out.

CANADA'S INVOLVEMENT

Under the Canada Shipping Act, 2001, the Vessel Pollution and Dangerous Chemicals Regulations apply to all ships in Canadian waters and to all Canadian ships everywhere. Division 8 of Part 2 of the Regulations requires ships of 400 tons gross tonnage or more to have on board an anti-fouling certificate and those that are under 400 tons gross tonnage but 24

metres or more in length to have on board a self-declaration.

The Pest Management Regulatory Agency (PMRA) indicated in a Special Review Announcement that all registrations and use of organotin-based anti-fouling paints ceased to be effective December 31, 2002. The PMRA maintains a list of currently registered anti-fouling paints that may be imported, sold or used in Canada.

RESULTS / PROGRESS

Activities

Transport Canada and the PMRA Regulations banned the use of TBTs as an anti-fouling system on all ships. The regulations required the removal or encapsulation of coatings containing TBTs by 2008. These regulations stopped Canadian operators from having the coating applied outside of Canada and putting the ship into service in Canadian waters.

They also stop persons from transferring into Canadian registry ships with this type of coating without it being removed or encapsulated.

The IMO developed Biofouling Guidelines in 2011, and has recently agreed to their revision.

Reports

Transport Canada and Environment and Climate Change Canada activities are documented in the proceedings of the IMO Committee Meetings and published on the IMO web site.

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