

Wartsila Water Systems Ltd Merchants House, Vanguard Road, Poole, Dorset, BH15 1PH, England © Copyright Reserved	Hazardous Material Declaration in accordance to IMO MEPC 379 (80), 2023 Guidelines for the development of the Inventory of Hazardous Materials and IHM	BD00195 Sheet 1 of 6
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	Contract ref. and Date	0042730560 (93699-01)	Date: 04-12-2024
	Company Name	Wärtsilä Water Systems Ltd	
	Address	Merchants House, Vanguard Road, Poole Dorset, BH15 1PH, UK	
	Contact Person	MAX BOLSTER	
	Telephone No.	+44 (0) 1202 662839	
	E-mail Address	MAX.BOLSTER@WARTSILA.COM	

Product Name	Product Number	Qty	Mass	Unit	Product Information
93699-01	3446401101	1	1.97	KG	IMPELLER B50HC 116 O/D
93699-01	32521502	1	0.045	KG	IMPELLER SCREW
93699-01	42010082	2	0.002	KG	O RING (IMPELLER)
93699-01	42619072	1	0.195	KG	MECH SEAL
93699-01	36712131	1	0.023	KG	LIQUID THROWER
93699-01	31511546	1	0.005	KG	PEEL OFF SHIM
93699-01	42030445	2	0.05	KG	O-RING (CASING)

Table	Material Name		Threshold Level	Present above threshold level	If, yes, Material Mass		If yes, Information on where it is used.
				Yes / No	Mass	Unit	
Table A (Materials listed in Appendix 1 of the Annex to the Convention)	A-1 Asbestos	Asbestos	0.1% ⁴	No			
	A-2 Polychlorinated Biphenyls (PCBs)	Polychlorinated Biphenyls (PCBs)	50mg/kg ⁵	No			
	A-3 Ozone Depleting Substance (ODS)	Chlorofluorocarbons (CFCs)	No threshold value ⁶	No			
		Halons		No			
		Other fully halogenated CFCs		No			
		Carbon Tetrachloride		No			
		1,1,1- Trichloroethane (Methyl Chloroform)		No			
		Hydrochlorofluorocarbons		No			
		Hydrobromofluorocarbons		No			
		Methyl bromide		No			
	Bromochloromethane	No					
A-4 Anti-fouling systems	containing organotin compounds as a biocide	2500 mg total tin/kg ⁷	No				
	Containing cybutryne	1000 mg/kg ⁸	No				

ECN No	Original	N063623	N064684	N066530	N066586	N066663	N/A	N/A	
ISSUE	1	2	3	4	5	6	7	8	
DRAWN	SK	JDC	JR	KGF	JI	KGF	KGF	MJT	
CHECK'D	DV	IL	IL	TD	KGF	TD	GD	MS	
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DATE	5/8/2014	07.09.17	14/09/18	11/02/21	11/03/21	26.04.21	22.10.21	26.03.24	

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Table	Material Name	Threshold Level	Present above threshold level	If, yes, Material Mass		If yes, Information on where it is used
			Yes / No	Mass	Unit	
Additional materials listed in EMSA Annex B for IHM Part 1	Perfluorooctane sulfonic acid⁷⁰ (PFOS) and its derivatives (CAS No: 1763-23-1) $C_8F_{17}SO_2X$ (X = OH, Metal salt (O-M +), halide, amide, and other derivatives including polymers) Examples of PFOS derivatives: Potassium perfluorooctane sulfonate (CAS no. 2795-39-3). lithium perfluorooctane sulfonate (CAS no. 29457-72-5). Ammonium perfluorooctanesulfonate (CAS no. 29081-56-9); diethanolammonium perfluorooctane sulfonate (CAS no. 70225-14-8); tetraethylammonium perfluorooctane sulfonate (CAS no. 56773-42-3); didecyldimethylammonium perfluorooctane sulfonate (CAS no. 251099-16-8).	10 mg/kg (0.001% by weight). Or Concentrations of PFOS in semi-finished products or articles, or parts thereof equal to or above than 0.1% by weight calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS Or For textiles or other coated materials, if the amount of PFOS is equal to or above than 1 µg/m² of the coated material.	No			

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Table	Material Name	Threshold Level	Present above threshold level	If, yes, Material Mass		If yes, Information on where it is used
			Yes / No	Mass	Unit	
Table B (Materials Listed in Appendix 2 of the Convention)	B-1 Cadmium and Cadmium Compounds	100 mg/kg ⁸	No			
	B-2 Hexavalent Chromium and Hexavalent Chromium Compounds	1000 mg/kg ⁸	No			
	B-3 Lead and Lead Compounds	1000 mg/kg ⁸	No			
	B-4 Mercury and Mercury Compounds	1000 mg/kg ⁸	No			
	B-5 Polybrominated Biphenyl (PBBs)	50 mg/kg ⁹	No			
	B-6 Polybrominated Diphenyl ethers (PBDEs)	1000 mg/kg ⁸	No			
	B-7 Polychlorinated naphthalenes (more than 3 chlorine atoms)	50 mg/kg ¹⁰	No			
	B-8 Radioactive Substances	No threshold level ¹¹	No			
	B-9 Certain Shortchain Chlorinated Paraffins (Alkanes, C10-C13, chloro)	1% ¹²	No			
Additional materials listed in EMSA Annex B for IHM Part 1	Brominated Flame Retardant (HBCDD) EC No: 221-695-9, 247-148-4, CAS No: 3194-55-6 25637-99-4, alpha-hexabromocyclododecane CAS No: 134237-50-6, beta-hexabromocyclododecane CAS No: 134237-51-7, gamma-hexabromocyclododecane CAS No: 134237-52-8.	100 mg/Kg (0.01%)**	No			

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The object of declaration described above is in conformity with the Guidelines for the development of Inventory of Hazardous Materials IMO MEPC 379(80) and IHM Part 1

4) In accordance with regulation 4 of the Convention, for all ships, new installation of materials which contain asbestos shall be prohibited. According to the UN recommendation "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" adopted by the United Nations Economic and Social Council's Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (UNSCGHS), the UN's Sub-Committee of Experts, in 2002 (published in 2003), carcinogenic mixtures classified as Category 1A (including asbestos mixtures) under the GHS are required to be labelled as carcinogenic if the ratio is more than 0.1%. However, if 1% is applied, this threshold value should be recorded in the Inventory and, if available, the Material Declaration and can be applied not later than five years after the entry into force of the Convention. The threshold value of 0.1% need not be retroactively applied to those Inventories and Material Declarations.

5) In accordance with regulation 4 of the Convention, for all ships, new installation of materials which contain PCBs shall be prohibited. The Organization set 50 mg/kg as the threshold value referring to the concentration level at which wastes, substances and articles containing, consisting of or contaminated with PCB are characterized as hazardous under the Basel Convention.

6) "No threshold value" is in accordance with the Montreal Protocol for reporting ODS. Unintentional trace contaminants should not be listed in the Material Declarations and in the Inventory.

7) This threshold value is based on the 2022 Guidelines for brief sampling of anti-fouling systems on ships (resolution MEPC.356(78)).

8) When samples are directly taken from the hull, average values of cybutryne should not be present above 1,000mg of cybutryne per kilogram of dry paint.

9) The Organization set this as the threshold value referring to the Restriction of Hazardous Substances (RoHS Directive 2011/65/EU, Annex II).

10) The Organization set 50 mg/kg as the threshold value referring to the concentration level at which wastes, substances and articles containing, consisting of or contaminated with PBB are characterized as hazardous under the Basel Convention.

11) The Organization set 50 mg/kg as the threshold value referring to the concentration level at which wastes, substances and articles containing, consisting of or contaminated with PCN are characterized as hazardous under the Basel Convention.

12) All radioactive sources should be included in the Material Declaration and in the Inventory. Radioactive source means radioactive material permanently sealed in a capsule or closely bonded and in a solid form that is used as a source of radiation. This includes consumer products and industrial gauges with radioactive materials. Examples are listed in appendix 10.

13) The Organization set 1% as the threshold value referring to the EU legislation that restricts Chlorinated Paraffins from being placed on the market for use as substances or as constituents of other substances or preparations in concentrations higher than 1% (EU Regulation 1907/2006, Annex XVII Entry 42 and Regulation 519/2012).

70) Not applicable for ships flying the flag of a third country.

** See EMSA IHM Annex C.b.3. describing Brominated Flame Retardant (HBCDD) control.

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Signed acceptance:

Senior Engineer

Name: Matt Shaw

Signed *MShaw*
MShaw (Dec 5, 2024 15:55 GMT)

Date: 05/12/24

Quality Manager:

Name: Vinod Viswanathan

Signed *V Viswanathan*
V Viswanathan (Dec 5, 2024 16:39 GMT)

Date: 05/12/24

For and on behalf of WARTSILA WATER SYSTEMS LTD.

This MD is to be completed in accordance with IMO resolution MEPC.379(80) and should be accompanied by a Suppliers Declaration of Conformity (SDoC) (see next sheet).

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**SUPPLIERS DECLARATION OF CONFORMITY FOR
MATERIAL DECLARATION MANAGEMENT**

1. SDoC Identification Number: WWS202412-01
2. Issuers Name: Wartsila Water Systems Ltd
Issuers Address: Merchants House, Vanguard Road, Poole, Dorset
BH15 1PH,
UK
3. Object(s) of the Declaration: 42730560

4. The object(s) of the declaration described above is in conformity with the following documents:

<u>Document No.</u>	<u>Title</u>	<u>Edition / Date of Issue</u>
<u>MEPC.379(80)</u>	<u>Guidelines for the development of the inventory of Hazardous Materials</u>	<u>07/07/2023</u>
<u>EU/1257/2013</u>	<u>Regulation of the European Parliament and of the Council on Ship Recycling</u>	<u>20/11/2013</u>

5. Additional Information: _____

6. Signed for and on behalf of: Wartsila Water Systems Ltd
Poole, Dorset, UK. 05/12/24
(Place and date of issue)

7. Vinod Viswanathan, Quality Manager *V Viswanathan*
(Name, Function) V Viswanathan (Dec 5, 2024 16:39 GMT)
(Signature)

This SDoC is to be completed in accordance with IMO Resolution MEPC.379(80) and should be accompanied by one or more Material Declarations (MD)

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