

2.2.3.2 ASBESTOS

Structure and / or equipment	Component		
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Propeller shafting	Packing with low pressure hydraulic piping flange		
	Packing with casing Brake lining		
	Clutch Synthetic stern tubes		
Diesel engine	 Packing with piping flange Lagging material for exhaust pipe 		
	Lagging material for fuel pipe Lagging material turbocharger		
Turbine engine	Lagging material for casing Packing with flange of piping and valve for steam line, exhaust line and drain line		
D '1	Lagging material for piping and valve for steam line, exhaust line and drain line		
Boiler	Packing with flange of piping and valve for steam line, exhaust line and drain line		
	 Lagging material for piping and valve for steam line, exhaust line and drain line Gas shield packing for soot blower and other hole 		
	Insulation in combustion chamber Gasket for manhole		
	Packing for casing door Gasket for hand hole		
Exhaust gas economizer	Packing with flange of piping and valve for steam line, exhaust line and drain line		
	Lagging material for piping and valve for steam line, exhaust line and drain line		
	 Packing for casing door Packing with hand hole 		
	 Packing with manhole Gas shield packing for soot blower 		
Incinerator	Packing for casing door Packing with hand hole		
	Packing with manhole Lagging material for exhaust pipe		
Auxiliary machinery (pump, Compressor, oil purifier, crane)	 Packing for casing door Gland packing Brake lining 		
Heat exchanger	Packing for casing door and valve Lagging material and insulation		
	Gland packing for valve		
Valve	Gland packing with valve, sheet packing with piping flange		
	Gasket with flange of high pressure and/or high temperature		
Pipe, duct	Lagging material and insulation		
Tank (fuel, hot water, tank, condenser), other equipments (fuel strainer, lubricant oil strainer	Lagging material and insulation		
Electric equipment	Insulation material		
Airborne asbestos	Wall, ceiling		
Ceiling, floor and wall in accommodation area	Ceiling, floor, wall		
Fire door	Packing, construction and insulation of the fire door		
Inert gas system	Packing for casing, etc		
Air-conditioning system	Sheet packing, lagging material for piping and flexible joint		
Miscellaneous:	Ropes Moulded plastic products		
	Thermal insulating Sealing putty		
	Fire shields / fire proofing Shaft/valve packing		
	Space / duct / insulation Electrical bulkhead penetration		
	Electrical cable materials packing		
	Brake linings Circuit breaker arc chutes		
	Floor tiles/deck underlay Pipe hanger insert		
	 Steam / water / vent flange gaskets Sound damping Weld shop protectors / burn covers Fire-fighting blank/clothing equipm. Concrete ballast 		

Indicative List (MEPC.269(68))



2.2.3.3 POLYCHLORINATED BIPHENYL (PCBs)

Equipment	Component of equipment
Transformer	Insulating oil
Condenser	Insulating oil
Fuel heater	Heating medium
Electric cable	Covering, insulating tape
Lubricating oil	
Heat Oil	Thermometers, sensors, indicators
Rubber / felt gaskets	
Rubber hose	
Plastic foam insulation	
Thermal insulating materials	
Voltage regulators	
Switches / reclosers / bushings	
Electromagnets	
Adhesives / tapes	
Surface contamination of machinery	
Oil-based paint	
Caulking	
Rubber isolation mounts	
Pipe hangers	
Light ballast (component within fluorcent light fixtures	
Plasticizers	
Felt under septum plates on top of hull bottom	

2.2.3.4 OZONE DEPLETING SUBSTANCES (ODS)

Equipment	Component of equipment	Period for use of ODS in Japan
CFCS (R11, R12)	Refrigerant for refrigerators	Until 1996
CFCs	Urethane formed materials	Until 1996
Halons	Extinguishing agent	Until 1994
Other fully halogenated CFCs	The possibility of usage in ships is low	Until 1996
Carbon tetrachloride	The possibility of usage in ships is low	Until 1996
1.1.1-Trichloroethane	The possibility of usage in ships is low	Until 1996
(Methyl Chloroform)		
HCFC (R22, R141b)	Refrigerant for refrigerating machine	It is possible to use it until 2020
HBFC	The possibility of usage in ships is low	Until 1996
Methyl bromide	The possibility of usage in ships is low	Until 1996

2.2.3.5 ORGANOTIN COMPOUNDS

Organotin compounds Organotin compounds include tributyl tins (TBT), triphenyl tins (TPT) and tributyl tin oxide (TBTO). Organotin compounds have been used as anti-fouling paint on ships' bottoms and the International Convention on the Control of Harmful Anti-Fouling Systems on Ships (AFS Convention) stipulates that all ships shall not apply or re-apply organotin compounds after 1 January 2003, and that, after 1 January 2008, all ships shall either not bear such compounds on their hulls or shall bear a coating that forms a barrier preventing such compounds from leaching into the sea. The above-mentioned dates may have been extended by permission of the Administration bearing in mind that the AFS Convention entered into force on 17 September 2008.

Indicative List (MEPC.269(68))



2.2.4. MATERIALS LISTED IN TABLE B

For existing ships is it not obligatory for materials listed in table B to be listed in Part I of the Inventory. However, if they can be identified in a practical way, they should be listed in the Inventory, because the information will be used to support ship recycling process. For new vessel with an Inventory in place will it be mandatory to maintain Table B materials. (Clean Design requirements)

Materials	Component of equipment	
Cadmium and cadmium compound	nickel-cadmium battery bearing	plating film
Hexavalent chromium	plating film	
Mercury and mercury compounds Lead and lead compounds	 fluorescent light mercury lamp mercury cell pressure sensors electrical switches fire detectors lead-acid storage battery solder (almost all electric 	 liquid-level switch gyro compass thermometer measuring tool manganese cell light fittings corrosion-resistant primer paints
	appliances contain solder)cable insulationgenerators	preservative coatingslead ballast
Polybrominated biphenyls (PBBs)	non-flammable plastic	
Polybrominated diphenyl ethers (PBDE)	non-flammable plastics	
Polychlorinated naphthalenes	• paint	 lubricating oil
Radioactive substances	fluorescent paintlevel gauge	Ionic smoke detector
Certain shortchain chlorinated paraffins	 non-flammable 	